



# Standards Gap Analysis for Cooperative Intelligent Transportation Systems (C-ITS)

## Results: Service Package Perspective: United States

Document HTG7-3-3-US  
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Standards Harmonisation Working Group  
Harmonisation Task Group 7



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## Contents

<b>Contents .....</b>	<b>ii</b>
<b>Figures .....</b>	<b>ii</b>
<b>Tables .....</b>	<b>ii</b>
<b>1. Introduction .....</b>	<b>1</b>
1.1 Background .....	1
1.2 History .....	2
1.3 HTG7 .....	2
1.4 Globally Harmonised Reference Architecture .....	3
1.5 Format of HTG7 Reports .....	3
1.6 Conventions .....	5
1.7 Purpose of this Document .....	5
<b>2. Report Perspective .....</b>	<b>6</b>
<b>3. Report Structure .....</b>	<b>7</b>
<b>4. Report Content .....</b>	<b>11</b>

## Figures

Figure 1: Service Package Perspective Overview .....	6
Figure 2: Service Package Report Structure .....	7

## Tables

Table 1: Service Package Perspective Report Field Descriptions .....	8
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# 1. Introduction

## 1.1 Background

Advancements in transportation technologies are rapidly transforming the world's strategies for increasing safety; gaining operational, mobility, and cost efficiencies; opening access to underserved communities; and reducing environmental impacts from transportation. Using new forms of short-range communications, vehicles and devices are now capable of broadcasting or receiving data that allow them to sense the movements and status of other surrounding devices. These cooperative exchanges create a three hundred sixty degree awareness that, when further fused with other open data, can enable drivers and other users of the transportation system to receive alerts and warnings regarding the formation of threats and hazards. The alerts and warnings created through these communication technologies provide the opportunity to prevent some crashes, thereby reducing fatalities, injuries, and property damage. The cooperative exchange of data in this manner can also enhance the benefits of automation.

Access to new data sets can also transform network operations and minimize the capital investment costs of infrastructure owners and operators. Broadcast data sets from users within a highly mobile environment can complement or potentially supersede the need for significant roadside equipment on major roads. These new data can also form a more complete representation of conditions on the arterial network, including road weather impacts, effects of traffic signal timing, support for incident and emergency responders, or changes in traveller decisions, among other conditions.

Standards for interfaces in the public interest can play a key role in delivering these benefits to communities that implement cooperative-ITS technologies. Technical standards are developed to address coordination problems and overcome technical barriers that exist when different organizations need to work together while preserving their institutional and proprietary processes. The International Organization for Standards (ISO) defines a standard as, "... a document, established by a consensus of subject matter experts and approved by a recognized body that provides guidance on the design, use or performance of materials, products, processes, services, systems or persons." The end documents, which frequently represent the interests of the experts and parties that gather to develop them, are vetted by experts. Recognized benefits include improved safety, mobility, and sustainability for the travelling public and enhanced interoperability within an open market environment.<sup>1</sup>

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<sup>1</sup> See definitions at: the European Committee for Standardization (CEN): <https://www.cen.eu/work/ENdev/whatisEN/Pages/default.aspx>; the International Organization for Standards (ISO): [https://www.iso.org/sites/ConsumersStandards/1\\_standards.html](https://www.iso.org/sites/ConsumersStandards/1_standards.html); Wikipedia: [https://en.wikipedia.org/wiki/Technical\\_standard](https://en.wikipedia.org/wiki/Technical_standard); the National Institute of Standards and Technology (NIST): <https://www.nist.gov/services-resources/standards-and-measurements>.

## 1.2 History

In 2011, the United States (US) Department of Transportation (USDOT) and the European Commission (EC) approved a [Harmonisation Action Plan](#) to guide EC-US standards development via Harmonisation Task Groups (HTGs). The plan recognises that successful, interoperable, nationwide or regional, cooperative technology implementations are critically dependent upon consistent application of complete, technically sound standards and policies for critical functions, interfaces, and **information flows**<sup>2</sup>. This worldwide need applies to the common services of a cooperative systems environment as well as to global markets for vehicles, devices, and applications. While the envisioned end state appears very similar in many parts of the world, past analyses have been regional and independent in nature and have proceeded with varying levels of coordination. The HTGs allow participating countries to collaborate on technical ITS issues that are of common interest and thus leverage critical expertise and resources while potentially realizing more compatible worldwide solutions.

Transport Certification Australia (TCA) joined the HTG initiatives in January 2014 by bringing security expertise and co-leadership to the sixth HTG (HTG6).<sup>3</sup>

## 1.3 HTG7

With the emergence in 2015 of plans in the US, Europe, and Australia to develop pilot **Cooperative Intelligent Transportation Systems (C-ITS)**<sup>4</sup> projects, a new HTG was established to identify how existing standards could support new C-ITS installations (i.e., “standards solutions for C-ITS”) and, in doing so, identify the issues in standards that could pose risks for deployers. This seventh HTG (HTG7) began in late 2015 as a joint effort between the EC, the USDOT, and TCA, with the Japan Ministry of Land, Infrastructure, Transport and Tourism (MLIT) joining in 2017.

Specifically, the objective of HTG7 was to identify standards that comprehensively support large-scale C-ITS deployments. HTG7 expects that fulfilling this objective will allow:

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<sup>2</sup> Terms that are in ***bold italics*** in this report are defined in a companion report, the **HARTS Reference Compendium (HTG7-5)**, which defines all of the terms used throughout this report set. Terms defined in the reference compendium are bold faced and italicised within each HARTS report upon their first use.

<sup>3</sup> Results of HTG6 are located here: <https://ec.europa.eu/digital-single-market/news/harmonized-security-policies-cooperative-intelligent-transport-systems-create-international>.

<sup>4</sup> C-ITS is a subset of ITS that requires the mutual, secure exchange of data between *independent* trusted entities (i.e., parties that have no contractual relationship). In other words, while traditional ITS typically deals with exchanges among system components owned and managed by a single or limited number of entities; these new ITS services expand this scope to include system components (e.g., vehicles) that may be owned and managed by any number of different entities. The scope of the HTG7 analysis included the C-ITS interfaces (i.e., exchanges between parties with no contractual relationship but with security and authentication as the basis for trust) as well as the more traditional “back-office” flows (between contracted parties) that enable the provision of the C-ITS services. This architecture presents a level of connectivity suggesting an “Internet of Things” for transportation.

1. **Governments, standards organisations, and other interested stakeholders** to track **issues** regarding those interfaces and information flows that are of significant public interest within the C-ITS **architecture**, facilitating engagement with experts to address them;
2. **ITS deployment teams, device manufacturers, and application developers** to identify candidate standards-based **solutions** that are available to them for planning, understand the issues associated with those solutions, and mitigate the risks associated with those issues in their deployments. Future ITS deployment teams around the world will have a clearer understanding about which system functions and interfaces are critical for **interoperability** and where standards are defined (or not yet defined) to support interoperability.

## 1.4 Globally Harmonised Reference Architecture

To establish a foundation for analysing standards, the international HTG7 team first developed the **Harmonised Architecture Reference for Technical Standards (HARTS)**. HARTS facilitates the understanding of the applicability of standards (ITS standards and other Information and Communications Technology (ICT) standards) for the successful implementation of **C-ITS services**<sup>5</sup>. HARTS provided the framework for the HTG7 team to identify key interfaces that need to be standardised in the public interest and served as the basis for performing the **gap** and **overlap** analysis of C-ITS standards for those interfaces.

HARTS is an internationally harmonised reference architecture based on:

- National ITS Architecture Framework (NIAF) from Australia
- EU's Framework Architecture (FRAME) from Europe
- Connected Vehicle Reference Implementation Architecture (CVRIA) from the US
- C-ITS architecture constructs from Japan

The body of work produced by HTG7 includes key resources for industry, such as HARTS and the accompanying HTG7 reports. These tools not only provide a starting point for the ITS community to address the technical and interoperability challenges that face wide-scale ITS deployment; but also provide tactical guidance on standards, solutions, and risks for current or near-term project teams planning and implementing ITS systems. Although the reports are based on a globally harmonised **reference architecture**, they formally recognise and accommodate regional and local approaches to ITS services, solutions, and standards.

## 1.5 Format of HTG7 Reports

The results summarized in this Executive Summary are presented in greater detail in the HTG7 series of reports:

- **Executive Overview (HTG7-1)** - A high-level summary of the approach, process and the key results of HTG7.

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<sup>5</sup> For the purpose of this report, the term "C-ITS service" is intended to include all ITS services encompassed by the HARTS service packages; at the time of publication 34 are available on the HARTS website (<http://htg7.org>).

- **Analysis Methodology (HTG7-2)** - Presents the HTG7 methodology used to develop HARTS, perform the gap analysis, and develop proposed resolutions.
- **Issues and Proposed Resolutions (HTG7-3, this document)** - Summarises the issues identified through HTG7 analysis and proposes actions to resolve the issues. It introduces a series of more detailed reports, detailed below, each of which identifies the same set of proposed resolutions but adopts a presentation format and includes details relevant to a different perspective.
  - **Results: Solution Perspective for Deployers (HTG7-3-1-AU, HTG7-3-1-EU, HTG7-3-1-JP, HTG7-3-1-US)** - Addresses development or implementation teams in their planning and procurement processes. This detailed report lists each solution along with its associated issues and proposed resolutions and is divided into four regional sub-reports, one for each participating region. (The region is reflected by the appended 2-letter region code<sup>6</sup>).
  - **Results: Resolution Perspective for Standards Developers (HTG7-3-2)** - Presents each proposed resolution along with its associated issues and the data exchanges affected by these issues. This detailed report can assist standards development communities and governments in their planning and work processes.
  - **Results: Service Package Perspective (HTG7-3-3-AU, HTG7-3-3-EU, HTG7-3-3-JP, HTG7-3-3-US)** - Offers road operators the opportunity to evaluate the “readiness” of **service packages**. This detailed report lists each service package, the data exchanges contained within the service package, and the issues associated with each solution for each data exchange. In this respect, this report helps deployers understand the levels of risk due to the standards gaps. The report is divided into 4 regional reports, one for each participating region. (The region is reflected by the appended the 2-letter region code<sup>6</sup>).
- **HARTS Website Overview (HTG7-4)** - Provides an overview of the HARTS public website, available at <http://htg7.org>. It describes each aspect of the website and provides instructions on how to submit comments about the information on the website.
- **HARTS Reference Compendium (HTG7-5)** - Provides reference material including:
  - A glossary of terms and associated definitions
  - Acronyms and associated meanings
  - Graphic symbols and associated meanings
  - Explanations of key terms and their inter-relationships

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<sup>6</sup> As defined by ISO 3166-1:2013 *Codes for the representation of names of countries and their subdivisions – Part 1: Country codes*

## 1.6 Conventions

While the HTG7 Report set was developed using United Kingdom (UK) English, the HARTS (toolset and website) was developed using US English. Whenever an extract from HARTS is presented within the HTG7 Report set, it will retain its US English spelling.

As noted in footnote 2 on page 2, this report is supplemented by the HARTS Reference Compendium (HTG7-5), which defines all of the terms used throughout this report set. Terms defined in the reference compendium are bold faced and italicised within each HARTS report upon their first use.

## 1.7 Purpose of this Document

This document, **Results: Service Package Perspective: United States** (HTG7-3-3-US), is one of nine detailed reports designed to report the issues found and their proposed resolutions, each from a unique perspective. They are adjuncts to the Summary of Issues and Proposed Resolutions (HTG7-3) report, which summarises the results of the HTG7 analysis, summarises the key issues identified during the analysis, and provides a comprehensive set of proposed and prioritised resolutions. The nine detailed reports offer three different technical perspectives, with two of those perspectives further broken out into the four regions encompassed by the HTG7 analysis. The specific detailed reports are as follows:

- **Solution Perspective:** Assists implementation teams in understanding the issues surrounding each solution contained within the HARTS analysis; there is one detailed report for each of the four regions covered by the HARTS analysis. The name of each of the four reports will have a two-letter identifier (-AU, -EU, -JP or -US) at the end of the report identifier and the electronic filename.
- **Resolution Perspective:** Provides an overarching view of the work that still needs to be completed to provide a fully interoperable C-ITS environment and is intended primarily for standards development organisations and governmental entities.
- **Service Package Perspective:** For entities that are deploying C-ITS, such as governmental agencies, product vendors and others that are interesting in the complete end-to-end implementation of an ITS service package; there is one detailed report for each of the four regions covered by the HARTS analysis. The identifier of each of the four reports will have a two-letter identifier (-AU, -EU, -JP or -US) at the end of the report title and the electronic filename.

Please note that each of these detailed reports is extremely large and therefore not intended for printing.

## 2. Report Perspective

There is a separate regional report within this detailed report collection for each of the participating regions: Australia, the European Union, Japan and the United States. In accordance with guidance in ISO 42010-2011, “*Systems and software engineering — Architecture description*”, this detailed report is designed to address a specific set of concerns, or perspective, of a specific group of stakeholders.

This detailed report provides the service package perspective for the United States. It provides a table of the HARTS analysis results structured to provide insight for road operators, regional planners, or other decision makers within the United States, to assess the suitability of service packages for deployment in their jurisdiction.

The results in this detailed report are therefore organised by service package; accompanied by a list of the **information triples** (**source**, **destination** and information flow) within the service package. Under each triple contained within the service package is a list of available solution/issue pairs for that triple. This is summarised in Figure 1.

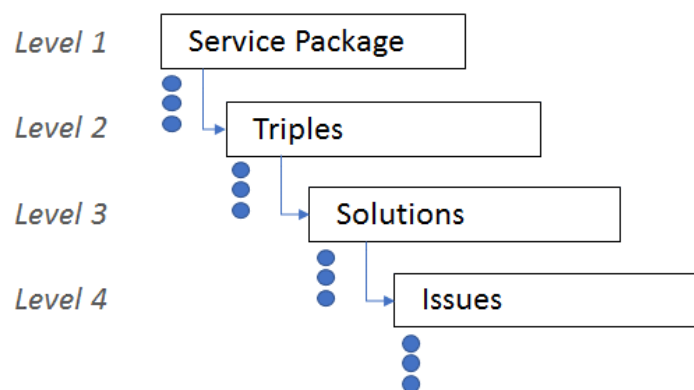


Figure 1: Service Package Perspective Overview

### 3. Report Structure

As show in Figure 1 above, there are multiple levels within the detailed report. Each level will consist of one, or possibly two header rows, followed by one or more content rows. Given the multi-level detailed report structure, higher-level sorting fields are typically displayed in header rows (e.g., at the start of the detailed report and when values change) while the lowest-level sorting fields may only appear in content rows. When the header field value is changed, the page header for each subsequent page is changed accordingly. Figure 2 below illustrates the detailed report structure, and each field included in the detailed report is subsequently defined in Table 1.

Level 1	Service Package		text	Deployment Timeframe		Day 1	Best (minimum) Issue Score		number
	Service Package Description								
	Service Package Image								
Level 2	Source		text	Destination		text	Flow		text
	Flow Description		text						
Level 3	Solution		text					Solution Issue Score	number
Level 4		Issue		Issue Description			Assignment Notes		Severity
		text		text			text		number

Figure 2: Service Package Report Structure

The following table contains the field name, its description and its value range for each of the detailed report fields in Chapter 4. They are listed in the table below according to the order in which they appear in the detailed report in Chapter 4. Additionally, the table also shows the sorting criteria used for the detailed report, including the order of sorting fields, the sorting method used, and the sort direction.

Table 1: Service Package Perspective Report Field Descriptions

Report	Field Information			Sort Criteria		
Level	Title	Description	Value Range	Order	Measure	Direction
1	<b>Service Package</b>	The name of the service package. A complete list of HARTS Service packages can be found at the <a href="#">HTG7 Website</a> .	ASCII <sup>7</sup>	2	Alphabetic	↓
	<b>Deployment Timeframe</b>	This reflects the stated or anticipated timeline for real-world deployments of the service package, which will factor into the urgency of addressing the associated proposed resolutions.	Ordered List (Support, Day-1, Day-1.5, Other)	1	List Order	↓
	<b>Best (minimum) Issue Score</b>	This was calculated using the following: <ol style="list-style-type: none"> <li>1. Identifying the net gap severity (the sum of individual gaps) for each triple solution within the service package.</li> <li>2. For each triple in the service package, identify the triple solution with the minimum net gap severity value.</li> <li>3. Sum the identified minimum net gap severity values across all the triples.</li> </ol>	Non-negative integer	–	–	–
	<b>Service Package Description</b>	A high-level description of the service package. NOTE: Only the description text is displayed; the title of this field is not shown.	ASCII	–	–	–
	<b>Service Package Diagram</b>	The diagram that depicts all of the information triples used by the service package. NOTE: Only the image is displayed; the title of this field is not shown.	Graphic	–	–	–

<sup>7</sup> ASCII (American Standard Code for Information Exchange)

Standards Gap Analysis for Cooperative ITS  
HTG7-3-3-US Results: Service Package Perspective: United States

Report	Field Information			Sort Criteria		
Level	Title	Description	Value Range	Order	Measure	Direction
2	<b>Source</b>	The HARTS <b>subsystem</b> that is the source of the information in the flow. The combination of the source, destination and the information flow constitutes the information triple.	ASCII	3	Alphabetic	↓
	<b>Destination</b>	The HARTS subsystem that is the destination of the information in the flow. The combination of the source, destination and the information flow constitutes the information triple.	ASCII	4	Alphabetic	↓
	<b>Flow</b>	Summary name for the information that is exchanged between subsystems in the <b>physical view</b> of HARTS. These Information flows and their communication requirements define the interfaces which formed the basis for the standards analysis conducted by HTG7. The combination of the source, destination and the information flow constitutes the information triple.	ASCII	5	Alphabetic	↓
	<b>Flow Description</b>	A description of the information flow.	ASCII	–	–	–
3	<b>Solution</b>	The name of the solution expressed as a hyphenated concatenation of the HARTS data profile and the HARTS communication profile that collectively define the solution.	ASCII	7	Alphabetic	↓

Standards Gap Analysis for Cooperative ITS  
HTG7-3-3-US Results: Service Package Perspective: United States

Report	Field Information			Sort Criteria		
Level	Title	Description	Value Range	Order	Measure	Direction
	<b>Solution Issue Score</b>	The sum of the severity rating values of all issue instances associated with the solution. The severity rating value for each severity level is assigned below:  1. Low = 1 2. Medium = 3 3. High = 8 4. Ultra = 32	Non-negative integer	6	Numeric	↓
4	<b>Issue</b>	The name of the issue, which will correspond to one of the 43 defined issues.	ASCII; See HTG7-5 for a complete list of issues.	9	Alphabetic	↓
	<b>Issue Description</b>	A summary description of the issue.	ASCII	–	–	–
	<b>Assignment Notes</b>	Notes relevant to this specific instance of the issue	ASCII	–	–	–
	<b>Severity</b>	An indication of how severe the issue is deemed to be. If the severity of the issue needs to be decided when assigning the issue, multiple issues can be created with slightly different names and definitions. For example, “Data may not be fully defined (low)” and “Data not fully defined (medium)”.	Ordered List (Ultra, High, Medium, Low)	8	List Order	↓

## 4. Report Content

The table of results is shown below.

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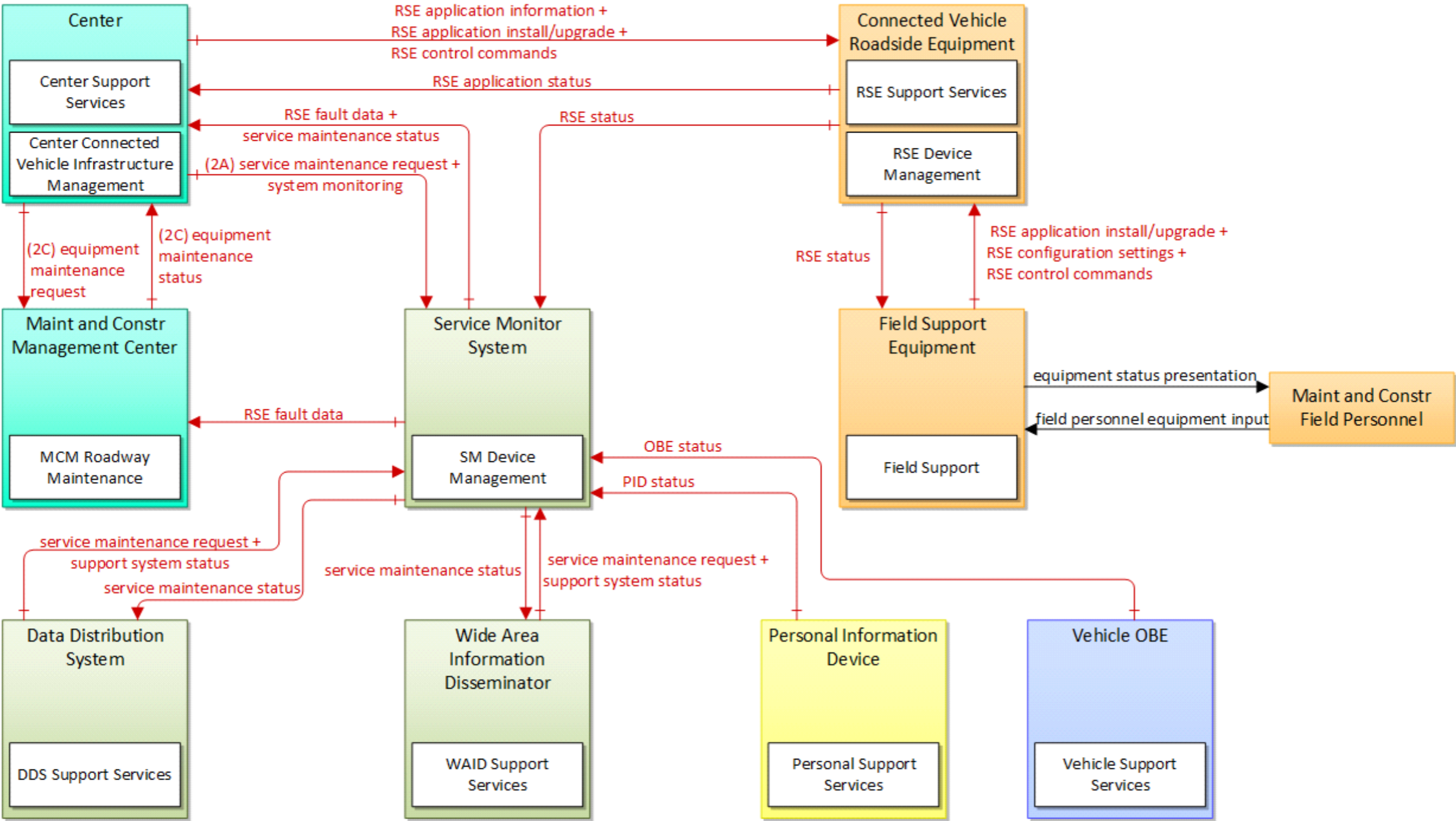
# HTG7-3-3: Service Package Perspective United States

Wednesday, December 19, 2018

1:03:10 PM

Service Package:	Connected Vehicle System Monitoring and Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	207
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This service package provides monitoring, management and control services necessary to other applications and/or devices operating within the Connected Vehicle Environment. This service package maintains and monitors the performance and configuration of the connected vehicle system. This includes tracking and management of the infrastructure configuration as well as detection, isolation, and correction of infrastructure service problems. It also includes monitoring of performance of the infrastructure and mobile equipment, which includes RSEs, OBEs, the back office applications, as well as the communication links that connect the system.



Connected Vehicle System Monitoring and Management			
5	Physical	Sep 26, 2017	NAT

Service Package:	Connected Vehicle System Monitoring and Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	RSE application information		
Flow Description:	RSE application configuration data and parameters that are used to control applications and configure the application for a specific local use. This flow also supports remote control of the application so the application can be taken offline, reset, or re						
Source:	Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	RSE application install/upgrade		
Flow Description:	This flow supports remote installation and update of software applications residing in the RSE. It supports transmission of the secure software installation files, including executable application code and associated support files.						

Service Package:	Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	RSE control commands	
Flow Description:	System-level control commands issued to the RSE such as reset and remote diagnostics.					

Service Package:	Connected Vehicle System Monitoring and Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Center	Destination:	Maint and Constr Management Center	Flow:	equipment maintenance request		
Flow Description:	Identification of field equipment requiring repair and known information about the associated faults.						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Connected Vehicle System Monitoring and Management			Deployment Timeframe:		Support		Best (minimum) Issue Score		207			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High			
	Source:		Center		Destination:		Service Monitor System		Flow:		service maintenance request			
	Flow Description:		Identification of central system service requiring repair and known information about the associated faults.											
	Solution		(None-Data) - NTCIP Messaging								Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Connected Vehicle System Monitoring and Management				Deployment Timeframe:		Support		Best (minimum) Issue Score		207			
Source:		Center		Destination:		Service Monitor System				Flow:		system monitoring			
Flow Description:		Represents the interactive monitoring of system operations by the Service Monitor. It includes device housekeeping/heartbeat monitoring and network monitoring information, the status of installed applications, and the configuration of managed devices.													
Solution		(None-Data) - NTCIP Messaging										Solution Issue Score:		15	
		Issue		Issue Description						Assignment Notes				Severity	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Source:		Connected Vehicle Roadside Equipment		Destination:		Center				Flow:		RSE application status			
Flow Description:		Monitoring of RSE application status including current mode, operational status, and configuration settings. It includes the status of installed applications and the application-specific data provided by the RSE.													

Service Package:	Connected Vehicle System Monitoring and Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Connected Vehicle Roadside Equipment	Destination:	Field Support Equipment	Flow:	RSE status		
Flow Description:	Monitoring of RSE device status including current mode, operational status, and configuration settings. It includes device housekeeping/heartbeat monitoring and includes network information, the status of installed applications, the configuration of manag						
Solution	US: NTCIP Generic Objects - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Solution		US: NTCIP Generic Objects - OMG DDS RPC				Solution Issue Score:	480
Issue		Issue Description		Assignment Notes		Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		TPEG2 is not designed to be transported over NTCIP Messaging services.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		UBL is not typically paired with NTCIP messaging		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Unusual combination of protocols		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		A port number has not been assigned to this message set.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		It is unclear what encoding rules should be used as well as what port number.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		No port number has been assigned to these messages		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High	

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High

Service Package:	Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207	
Source:	Connected Vehicle Roadside Equipment	Destination:	Service Monitor System		Flow:	RSE status	
Flow Description:	Monitoring of RSE device status including current mode, operational status, and configuration settings. It includes device housekeeping/heartbeat monitoring and includes network information, the status of installed applications, the configuration of manag						
Solution	US: NTCIP Generic Objects - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207	
		Solution	US: NTCIP Generic Objects -  OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Connected Vehicle System Monitoring and Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	207		
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High		
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High		
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High		
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High		
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High		
Source:		Data Distribution System		Destination:	Service Monitor System		Flow:	service maintenance request		
Flow Description:		Identification of central system service requiring repair and known information about the associated faults.								
Solution		(None-Data) - NTCIP Messaging						Solution Issue Score:	15	
Issue		Issue Description				Assignment Notes		Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium		

Service Package:	Connected Vehicle System Monitoring and Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Data Distribution System	Destination:	Service Monitor System	Flow:	support system status		
Flow Description:	Monitoring of support system device status including current mode, operational status, and configuration settings. It includes device housekeeping/heartbeat monitoring and includes network information, the status of installed applications, and the configu						
Source:	Field Support Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	RSE application install/upgrade		
Flow Description:	This flow supports remote installation and update of software applications residing in the RSE. It supports transmission of the secure software installation files, including executable application code and associated support files.						

Service Package:	Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Field Support Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	RSE configuration settings	
Flow Description:	Control settings and parameters that are used to configure roadside equipment.					
Source:	Field Support Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	RSE control commands	
Flow Description:	System-level control commands issued to the RSE such as reset and remote diagnostics.					

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		207			
Source:		Maint and Constr Management Center		Destination:		Center		Flow:		equipment maintenance status			
Flow Description:		Current status of field equipment maintenance actions.											
Solution		US: TMDD - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		207	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Personal Information Device		Destination:		Service Monitor System		Flow:		PID status	
Flow Description:		Monitoring of Personal Information Device status including current mode, operational status, and configuration settings. It includes device housekeeping/heartbeat monitoring and includes network information, the status of installed applications, and the c									

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		207			
Source:		Service Monitor System		Destination:		Center		Flow:		RSE fault data			
Flow Description:		RSE fault information that can be used to identify RSEs that require initialization, reconfiguration, repair or replacement. This flow identifies the device, the nature of the fault, and associated error codes and diagnostic data.											
Solution		US: TMDD - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Connected Vehicle System Monitoring and Management			Deployment Timeframe:		Support		Best (minimum) Issue Score		207			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High			
	Source:		Service Monitor System			Destination:		Center		Flow:		service maintenance status		
	Flow Description:		Current status of central system maintenance actions.											
	Solution		(None-Data) - NTCIP Messaging								Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:	Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Service Monitor System	Destination:	Data Distribution System	Flow:	service maintenance status	
Flow Description:	Current status of central system maintenance actions.					
Solution	(None-Data) - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		207			
Source:		Service Monitor System		Destination:		Maint and Constr Management Center		Flow:		RSE fault data			
Flow Description:		RSE fault information that can be used to identify RSEs that require initialization, reconfiguration, repair or replacement. This flow identifies the device, the nature of the fault, and associated error codes and diagnostic data.											
Solution		US: TMDD - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	

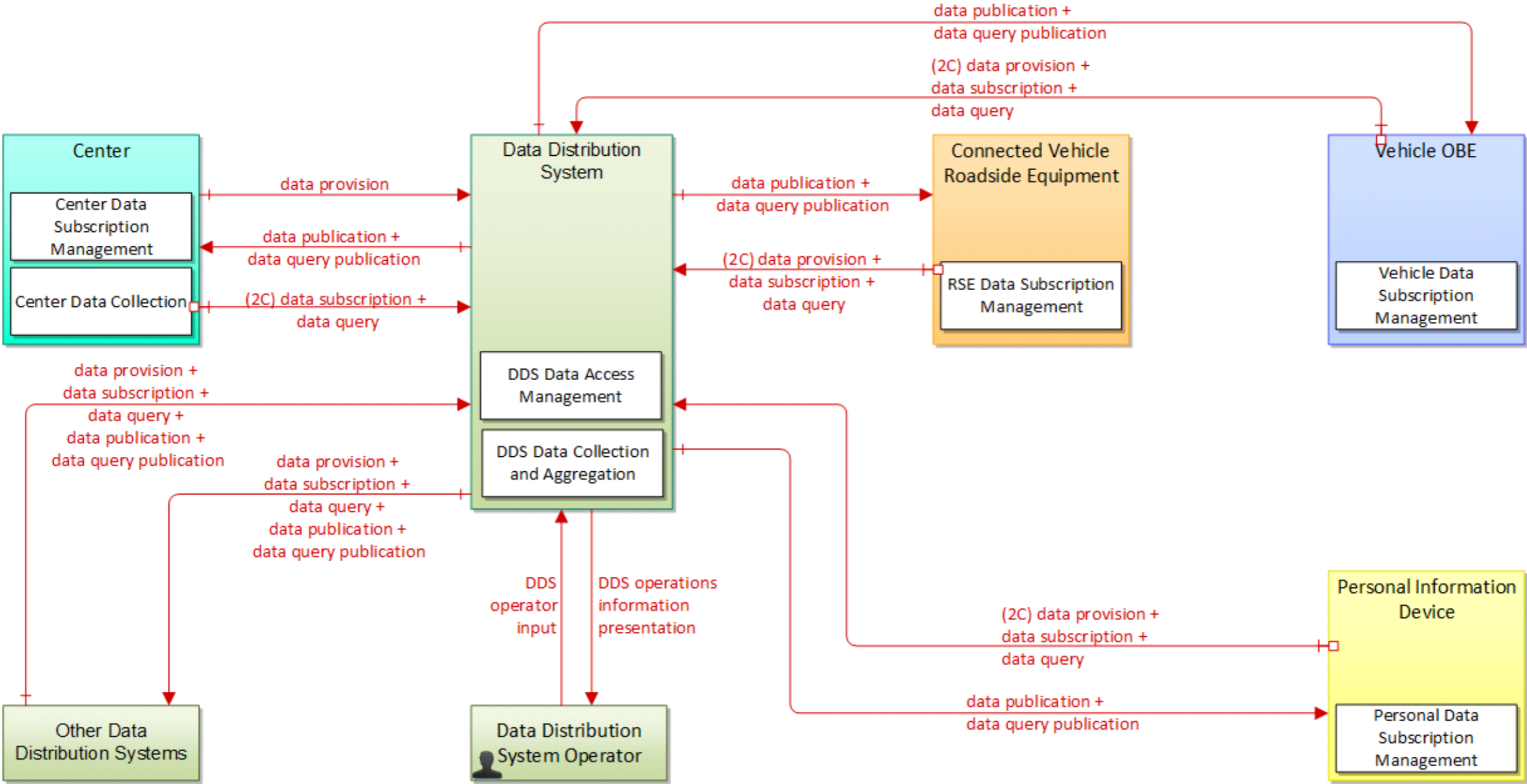
Service Package:		Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Connected Vehicle System Monitoring and Management			Deployment Timeframe:		Support		Best (minimum) Issue Score		207	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High		
Source:		Service Monitor System			Destination:		Wide Area Information Disseminator		Flow:		service maintenance status	
Flow Description:		Current status of central system maintenance actions.										

Service Package:	Connected Vehicle System Monitoring and Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Vehicle OBE	Destination:	Service Monitor System	Flow:	OBE status		
Flow Description:	Monitoring of OBE device status including current mode, operational status, and configuration settings. It includes device housekeeping/heartbeat monitoring and includes network information, the status of installed applications, and the configuration of m						
Source:	Wide Area Information Disseminator	Destination:	Service Monitor System	Flow:	service maintenance request		
Flow Description:	Identification of central system service requiring repair and known information about the associated faults.						

Service Package:	Connected Vehicle System Monitoring and Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	207
Source:	Wide Area Information Disseminator	Destination:	Service Monitor System	Flow:	support system status	
Flow Description:	Monitoring of support system device status including current mode, operational status, and configuration settings. It includes device housekeeping/heartbeat monitoring and includes network information, the status of installed applications, and the configu					

Data Distribution is a support application that manages the distribution of data from data providers to data consumers and protects those data from unauthorized access. The application informs data providers of how to provide data, manages data subscriptions, and provides data forwarding capabilities. The application also maintains a directory of System Users that want data and supports multiple distribution mechanisms including publish-subscribe and directly from data provider to data consumer. The application allows data consumers to specify (and change the specification of) data they wish to receive.



Data Distribution			
8	Physical	Sep 22, 2017	NAT

Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Center	Destination:	Data Distribution System	Flow:	data provision		
Flow Description:	Data provision provides the source material for a publish-subscribe or query-retrieval data distribution scheme. This is the 1 of the 1:N data distribution architecture. This flow is a super-flow; it does not define data elements but is inclusive of any f						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description			Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.			NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	
Source:	Center	Destination:	Data Distribution System	Flow:	data query		
Flow Description:	Data query includes those dialogs necessary to determine what data is available for and also submit a query for near-term response.						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description			Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.			NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270	
Source:	Center	Destination:	Data Distribution System	Flow:	data subscription			
Flow Description:	Data subscription includes those dialogs necessary to determine what data is available for subscription/query, and also the dialogs necessary to create or modify data subscriptions/queries.							
	Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
	Issue	Issue Description				Assignment Notes		Severity
	Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Source:	Connected Vehicle Roadside Equipment	Destination:	Data Distribution System	Flow:	data provision			
Flow Description:	Data provision provides the source material for a publish-subscribe or query-retrieval data distribution scheme. This is the 1 of the 1:N data distribution architecture. This flow is a super-flow; it does not define data elements but is inclusive of any f							

Service Package:	Data Distribution		Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Connected Vehicle Roadside Equipment	Destination:	Data Distribution System	Flow:	data query	
Flow Description:	Data query includes those dialogs necessary to determine what data is available for and also submit a query for near-term response.					

Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Data Distribution System	Destination:	Center	Flow:	data publication		
Flow Description:	Data publication includes those dialogs necessary to satisfy the publication portion of a data distribution architecture. At its core, it provides data, organized by the sender as a one-to-many. This is a super-flow, meaning that it does not define data e						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Source:	Data Distribution System	Destination:	Center	Flow:	data query publication		
Flow Description:	Data query publication includes those dialogs necessary to satisfy the retrieval portion of a query-response action using the data distribution architecture. This is a super-flow, meaning that it does not define data elements and is inclusive of any flow						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:	Data Distribution	Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Data Distribution System	Destination:	Connected Vehicle Roadside Equipment	Flow:	data publication
Flow Description:	Data publication includes those dialogs necessary to satisfy the publication portion of a data distribution architecture. At its core, it provides data, organized by the sender as a one-to-many. This is a super-flow, meaning that it does not define data e				
Source:	Data Distribution System	Destination:	Connected Vehicle Roadside Equipment	Flow:	data query publication
Flow Description:	Data query publication includes those dialogs necessary to satisfy the retrieval portion of a query-response action using the data distribution architecture. This is a super-flow, meaning that it does not define data elements and is inclusive of any flow				

Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Data Distribution System	Destination:	Other Data Distribution Systems	Flow:	data provision		
Flow Description:	Data provision provides the source material for a publish-subscribe or query-retrieval data distribution scheme. This is the 1 of the 1:N data distribution architecture. This flow is a super-flow; it does not define data elements but is inclusive of any f						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Source:	Data Distribution System	Destination:	Other Data Distribution Systems	Flow:	data publication		
Flow Description:	Data publication includes those dialogs necessary to satisfy the publication portion of a data distribution architecture. At its core, it provides data, organized by the sender as a one-to-many. This is a super-flow, meaning that it does not define data e						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270
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Source:

Data Distribution System

Destination:

Other Data Distribution Systems

Flow:

data query

Flow Description:

Data query includes those dialogs necessary to determine what data is available for and also submit a query for near-term response.

Solution

Flow-Specific Data - NTCIP Messaging

Solution Issue Score:

18

Issue	Issue Description	Assignment Notes	Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.	NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	SIRI does not currently provide application level authentication.	Medium

Source:

Data Distribution System

Destination:

Other Data Distribution Systems

Flow:

data query publication

Flow Description:

Data query publication includes those dialogs necessary to satisfy the retrieval portion of a query-response action using the data distribution architecture. This is a super-flow, meaning that it does not define data elements and is inclusive of any flow

Solution

Flow-Specific Data - NTCIP Messaging

Solution Issue Score:

18

Issue	Issue Description	Assignment Notes	Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.	NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	SIRI does not currently provide application level authentication.	Medium

Service Package:	Data Distribution	Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Data Distribution System	Destination:	Other Data Distribution Systems	Flow:	data subscription
Flow Description:	Data subscription includes those dialogs necessary to determine what data is available for subscription/query, and also the dialogs necessary to create or modify data subscriptions/queries.				
	Solution	Flow-Specific Data - NTCIP Messaging			Solution Issue Score: 18
	Issue	Issue Description			Severity
	Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.			NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively. Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication. Medium
Source:	Data Distribution System	Destination:	Personal Information Device	Flow:	data publication
Flow Description:	Data publication includes those dialogs necessary to satisfy the publication portion of a data distribution architecture. At its core, it provides data, organized by the sender as a one-to-many. This is a super-flow, meaning that it does not define data e				

Service Package:	Data Distribution	Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Data Distribution System	Destination:	Personal Information Device	Flow:	data query publication
Flow Description:	Data query publication includes those dialogs necessary to satisfy the retrieval portion of a query-response action using the data distribution architecture. This is a super-flow, meaning that it does not define data elements and is inclusive of any flow				
Source:	Data Distribution System	Destination:	Vehicle OBE	Flow:	data publication
Flow Description:	Data publication includes those dialogs necessary to satisfy the publication portion of a data distribution architecture. At its core, it provides data, organized by the sender as a one-to-many. This is a super-flow, meaning that it does not define data e				

Service Package:	Data Distribution		Deployment Timeframe:	Support	Best (minimum) Issue Score	270	
Source:	Data Distribution System	Destination:	Vehicle OBE	Flow:	data query publication		
Flow Description:	Data query publication includes those dialogs necessary to satisfy the retrieval portion of a query-response action using the data distribution architecture. This is a super-flow, meaning that it does not define data elements and is inclusive of any flow						
Source:	Other Data Distribution Systems	Destination:	Data Distribution System	Flow:	data provision		
Flow Description:	Data provision provides the source material for a publish-subscribe or query-retrieval data distribution scheme. This is the 1 of the 1:N data distribution architecture. This flow is a super-flow; it does not define data elements but is inclusive of any f						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description			Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.			NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Other Data Distribution Systems	Destination:	Data Distribution System	Flow:	data publication		
Flow Description:	Data publication includes those dialogs necessary to satisfy the publication portion of a data distribution architecture. At its core, it provides data, organized by the sender as a one-to-many. This is a super-flow, meaning that it does not define data e						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description			Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.			NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	
Source:	Other Data Distribution Systems	Destination:	Data Distribution System	Flow:	data query		
Flow Description:	Data query includes those dialogs necessary to determine what data is available for and also submit a query for near-term response.						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description			Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.			NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

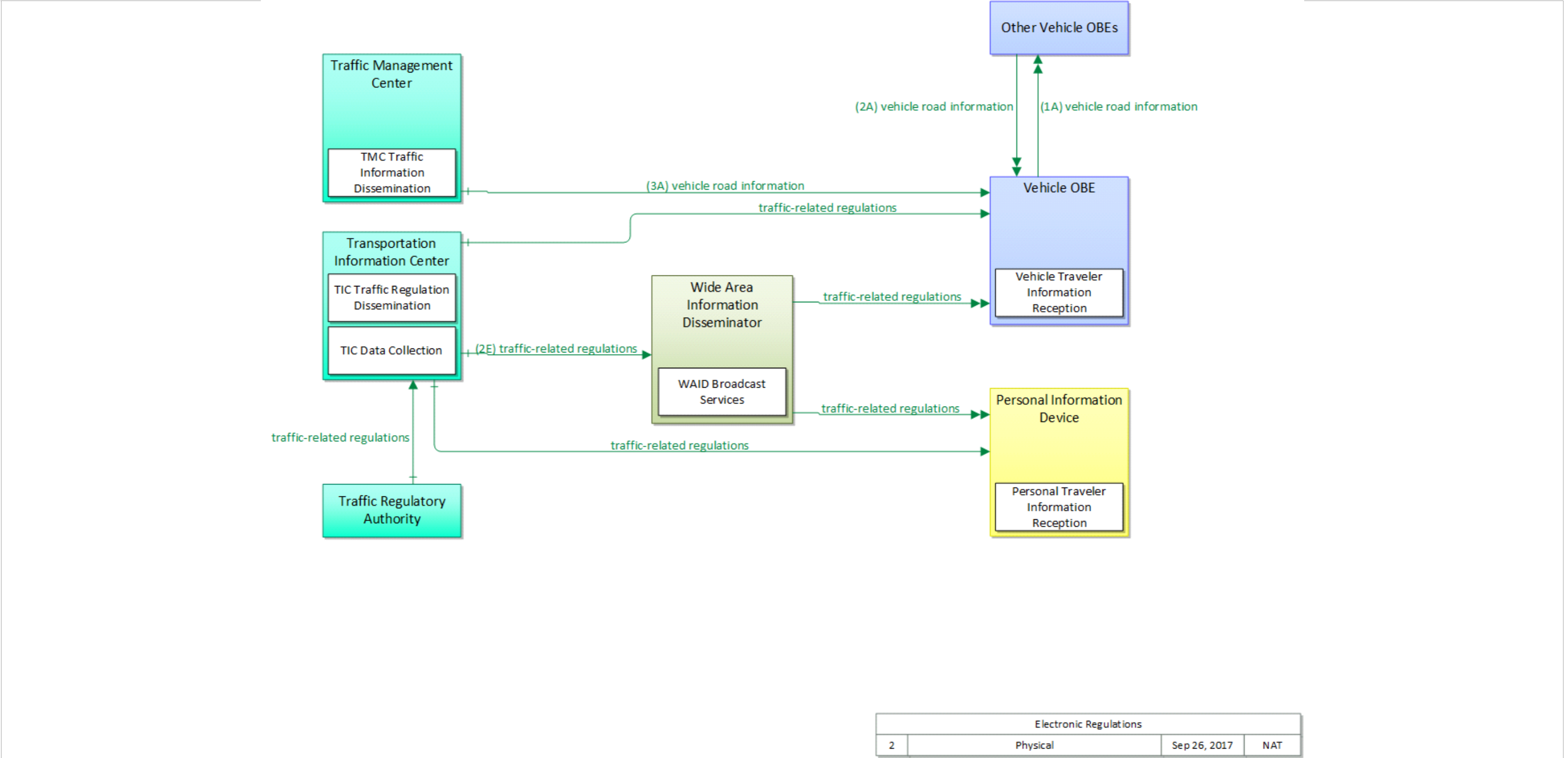
Service Package:	Data Distribution			Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Other Data Distribution Systems	Destination:	Data Distribution System	Flow:	data query publication		
Flow Description:	Data query publication includes those dialogs necessary to satisfy the retrieval portion of a query-response action using the data distribution architecture. This is a super-flow, meaning that it does not define data elements and is inclusive of any flow						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Source:	Other Data Distribution Systems	Destination:	Data Distribution System	Flow:	data subscription		
Flow Description:	Data subscription includes those dialogs necessary to determine what data is available for subscription/query, and also the dialogs necessary to create or modify data subscriptions/queries.						
Solution	Flow-Specific Data - NTCIP Messaging					Solution Issue Score:	18
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:	Data Distribution	Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Personal Information Device	Destination:	Data Distribution System	Flow:	data provision
Flow Description:	Data provision provides the source material for a publish-subscribe or query-retrieval data distribution scheme. This is the 1 of the 1:N data distribution architecture. This flow is a super-flow; it does not define data elements but is inclusive of any f				
Source:	Personal Information Device	Destination:	Data Distribution System	Flow:	data query
Flow Description:	Data query includes those dialogs necessary to determine what data is available for and also submit a query for near-term response.				

Service Package:	Data Distribution		Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Personal Information Device	Destination:	Data Distribution System	Flow:	data subscription	
Flow Description:	Data subscription includes those dialogs necessary to determine what data is available for subscription/query, and also the dialogs necessary to create or modify data subscriptions/queries.					
Source:	Vehicle OBE	Destination:	Data Distribution System	Flow:	data provision	
Flow Description:	Data provision provides the source material for a publish-subscribe or query-retrieval data distribution scheme. This is the 1 of the 1:N data distribution architecture. This flow is a super-flow; it does not define data elements but is inclusive of any f					

Service Package:	Data Distribution		Deployment Timeframe:	Support	Best (minimum) Issue Score	270
Source:	Vehicle OBE	Destination:	Data Distribution System	Flow:	data query	
Flow Description:	Data query includes those dialogs necessary to determine what data is available for and also submit a query for near-term response.					
Source:	Vehicle OBE	Destination:	Data Distribution System	Flow:	data subscription	
Flow Description:	Data subscription includes those dialogs necessary to determine what data is available for subscription/query, and also the dialogs necessary to create or modify data subscriptions/queries.					

This service package disseminates current local statutes, regulations, ordinances, and rules that have been adopted by local, state, and federal authorities that govern the safe, orderly operation of motor vehicles, bicycles, and pedestrians on public roads. The focus of this service package is electronic distribution to automated vehicles and their drivers so that automated vehicles can safely operate in compliance with the traffic or motor vehicle code for the current state and locality, though this information would also be useful to human drivers.



Service Package:	Electronic Regulations	Deployment Timeframe:	Support	Best (minimum) Issue Score	15
Source:	Other Vehicle OBEs	Destination:	Vehicle OBE	Flow:	vehicle road information
Flow Description:	Road geometry, layout, and traffic regulation information that is shared with and between vehicles.				
Source:	Traffic Management Center	Destination:	Vehicle OBE	Flow:	vehicle road information
Flow Description:	Road geometry, layout, and traffic regulation information that is shared with and between vehicles.				

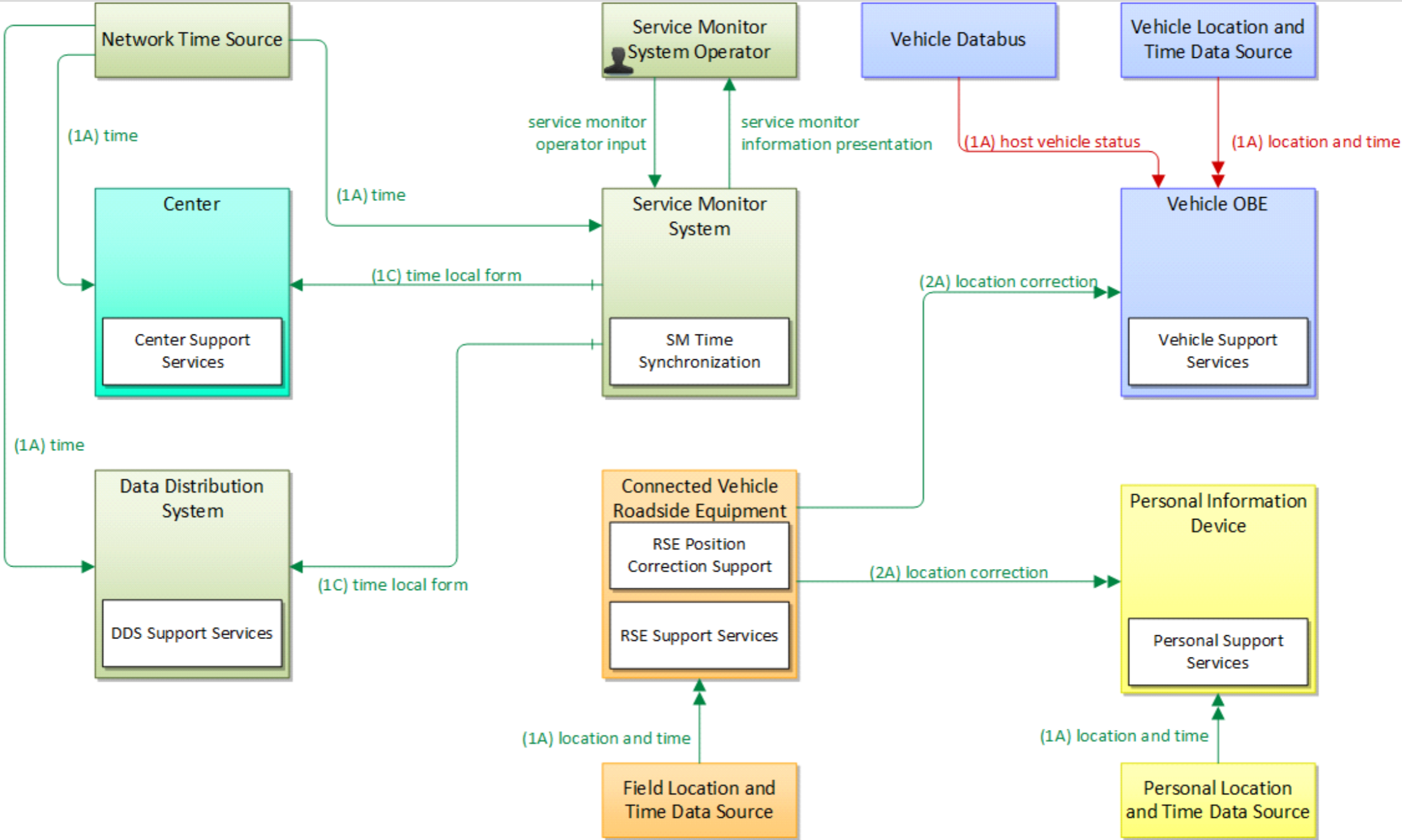
Service Package:	Electronic Regulations			Deployment Timeframe:	Support	Best (minimum) Issue Score	15
Source:	Traffic Regulatory Authority	Destination:	Transportation Information Center	Flow:	traffic-related regulations		
Flow Description:	Traffic rules, regulations, ordinances and statutes that have official status and must be understood by all motor vehicle operators and intelligent vehicles that operate at higher automation levels. The flow includes the regulations and the associated loc						
Solution	(None-Data) - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Source:	Transportation Information Center	Destination:	Personal Information Device	Flow:	traffic-related regulations		
Flow Description:	Traffic rules, regulations, ordinances and statutes that have official status and must be understood by all motor vehicle operators and intelligent vehicles that operate at higher automation levels. The flow includes the regulations and the associated loc						

Service Package:	Electronic Regulations	Deployment Timeframe:	Support	Best (minimum) Issue Score	15
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	traffic-related regulations
Flow Description:	Traffic rules, regulations, ordinances and statutes that have official status and must be understood by all motor vehicle operators and intelligent vehicles that operate at higher automation levels. The flow includes the regulations and the associated loc				
Source:	Transportation Information Center	Destination:	Wide Area Information Disseminator	Flow:	traffic-related regulations
Flow Description:	Traffic rules, regulations, ordinances and statutes that have official status and must be understood by all motor vehicle operators and intelligent vehicles that operate at higher automation levels. The flow includes the regulations and the associated loc				

Service Package:	Electronic Regulations	Deployment Timeframe:	Support	Best (minimum) Issue Score	15
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle road information
Flow Description:	Road geometry, layout, and traffic regulation information that is shared with and between vehicles.				
Source:	Wide Area Information Disseminator	Destination:	Personal Information Device	Flow:	traffic-related regulations
Flow Description:	Traffic rules, regulations, ordinances and statutes that have official status and must be understood by all motor vehicle operators and intelligent vehicles that operate at higher automation levels. The flow includes the regulations and the associated loc				

<b>Service Package:</b>	Electronic Regulations	<b>Deployment Timeframe:</b>	Support	<b>Best (minimum) Issue Score</b>	15
<b>Source:</b>	Wide Area Information Disseminator	<b>Destination:</b>	Vehicle OBE	<b>Flow:</b>	traffic-related regulations
<b>Flow Description:</b>	Traffic rules, regulations, ordinances and statutes that have official status and must be understood by all motor vehicle operators and intelligent vehicles that operate at higher automation levels. The flow includes the regulations and the associated loc				

Location and Time is a support application that shows the external systems and their interfaces to provide accurate location and time to connected vehicle devices and systems.



Location and Time			
3	Physical	Oct 14, 2015	NAT

Service Package:	Location and Time		Deployment Timeframe:	Support	Best (minimum) Issue Score	120
Source:	Connected Vehicle Roadside Equipment	Destination:	Personal Information Device	Flow:	location correction	
Flow Description:	Information provided to improve positional accuracy. These corrections allow a mobile GPS receiver, such as a GPS system in a connected vehicle, to achieve a greater absolute positional accuracy, compensating for errors that exist in satellite positionin					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	location correction	
Flow Description:	Information provided to improve positional accuracy. These corrections allow a mobile GPS receiver, such as a GPS system in a connected vehicle, to achieve a greater absolute positional accuracy, compensating for errors that exist in satellite positionin					

Service Package:		Location and Time		Deployment Timeframe:		Support		Best (minimum) Issue Score		120			
Source:		Field Location and Time Data Source		Destination:		Connected Vehicle Roadside Equipment		Flow:		location and time			
Flow Description:		The current geographic location in three dimensions (latitude, longitude, elevation) and the current time.											
		Solution		Location/Time reference - Positioning						Solution Issue Score:		15	
		Issue		Issue Description						Assignment Notes		Severity	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.		Medium	
Source:		Network Time Source		Destination:		Center		Flow:		time			
Flow Description:		Current time expressed in Universal Time Coordinated (UTC) format from a Stratum-2 time server.											
		Solution		NTP - UDP/IP						Solution Issue Score:		15	
		Issue		Issue Description						Assignment Notes		Severity	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.		Medium	

Service Package:	Location and Time			Deployment Timeframe:	Support	Best (minimum) Issue Score	120
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Source:	Network Time Source	Destination:	Data Distribution System	Flow:	time
Flow Description:	Current time expressed in Universal Time Coordinated (UTC) format from a Stratum-2 time server.				

Solution	NTP - UDP/IP			Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium

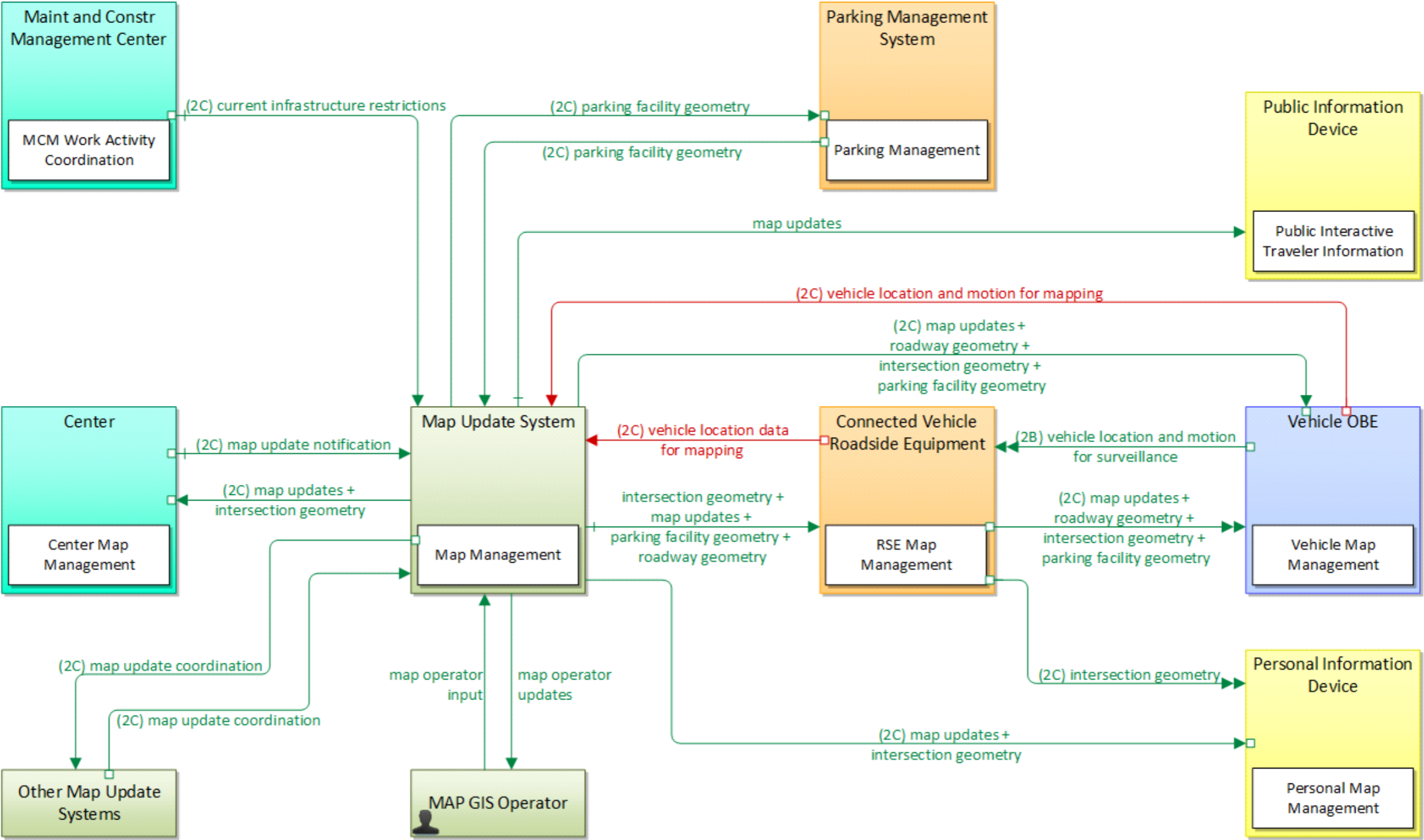
Source:	Network Time Source	Destination:	Service Monitor System	Flow:	time
Flow Description:	Current time expressed in Universal Time Coordinated (UTC) format from a Stratum-2 time server.				

Solution	NTP - UDP/IP			Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium

Service Package:		Location and Time		Deployment Timeframe:		Support		Best (minimum) Issue Score		120			
Source:		Personal Location and Time Data Source		Destination:		Personal Information Device		Flow:		location and time			
Flow Description:		The current geographic location in three dimensions (latitude, longitude, elevation) and the current time.											
		Solution		Location/Time reference - Positioning						Solution Issue Score:		15	
		Issue		Issue Description						Assignment Notes		Severity	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.		Medium	
Source:		Service Monitor System		Destination:		Center		Flow:		time local form			
Flow Description:		Time local form includes UTC time synchronized with the external source in a format usable by connected vehicle center functions.											
		Solution		NTP - UDP/IP						Solution Issue Score:		15	
		Issue		Issue Description						Assignment Notes		Severity	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link		Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.		Medium	

Service Package:		Location and Time		Deployment Timeframe:		Support		Best (minimum) Issue Score		120			
Source:		Service Monitor System		Destination:		Data Distribution System		Flow:		time local form			
Flow Description:		Time local form includes UTC time synchronized with the external source in a format usable by connected vehicle center functions.											
	Solution		NTP - UDP/IP							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
Source:		Vehicle Location and Time Data Source		Destination:		Vehicle OBE		Flow:		location and time			
Flow Description:		The current geographic location in three dimensions (latitude, longitude, elevation) and the current time.											
	Solution		Location/Time reference - Positioning							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	

The Map Management application defines interfaces that can be used download or update all types of map data used to support connected vehicle applications. This map data will be accessed by centers, field, and vehicle physical objects. The application can be used to harness the Connected Vehicle Environment to provide rich source data that can be used to verify, refine, and enhance geographic map data.



Map Management			
5	Physical	Sep 26, 2017	NAT

Service Package:	Map Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Maint and Constr Management Center	Destination:	Map Update System	Flow:	current infrastructure restrictions		
Flow Description:	Restrictions levied on transportation asset usage based on infrastructure design, surveys, tests, or analyses. This includes standard facility design height, width, and weight restrictions, special restrictions such as spring weight restrictions, and tem						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:		Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High



Service Package:	Map Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Map Update System	Destination:	Center	Flow:	map updates		
Flow Description:	Map update which could include a new underlying static or real-time map or map layer(s) update.						

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460		
Source:		Map Update System		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection geometry		
Flow Description:		The physical geometry of an intersection covering the location and width of each approaching lane, egress lane, and valid paths between approaches and egresses. This flow also defines the location of stop lines, cross walks, specific traffic law restrict										
Solution		DDS: SAE Other J2735 - OMG DDS								Solution Issue Score:		480
Issue		Issue Description						Assignment Notes			Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary			High	

Service Package:		Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Unusual combination of protocols		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High

Service Package:		Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460	
	Solution		US: SAE Other J2735 -  SNMPv3				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Map Update System		Destination:		Connected Vehicle Roadside Equipment		Flow:		map updates	
Flow Description:		Map update which could include a new underlying static or real-time map or map layer(s) update.									

Service Package:	Map Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Map Update System	Destination:	Connected Vehicle Roadside Equipment	Flow:	parking facility geometry
Flow Description:	Precise spatial description of a parking facility that locates each parking space and the ingress and egress routes that are used to travel to and from the spaces.				

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460			
Source:		Map Update System		Destination:		Connected Vehicle Roadside Equipment		Flow:		roadway geometry			
Flow Description:		The physical geometry of a road segment that specifies the location and width of each lane, including normal lanes as well as special lanes for pedestrians and bicycles, transit vehicles, and trains. This flow also may include the curvature, grade, and											
Solution		DDS: SAE Signal Control Messages - OMG DDS RPC								Solution Issue Score:		480	
		Issue		Issue Description					Assignment Notes			Severity	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary			High	

Service Package:		Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Unusual combination of protocols		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High

Service Package:		Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460	
	Solution	US: SAE Signal Control Messages - SNMPv3					Solution Issue Score:	480
	Issue	Issue Description				Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging	High	

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Map Update System		Destination:		Other Map Update Systems		Flow:		map update coordination	
Flow Description:		Exchange of geographic information between map update systems.									

Service Package:	Map Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Map Update System	Destination:	Parking Management System	Flow:	parking facility geometry
Flow Description:	Precise spatial description of a parking facility that locates each parking space and the ingress and egress routes that are used to travel to and from the spaces.				

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460			
Source:		Map Update System		Destination:		Personal Information Device		Flow:		intersection geometry			
Flow Description:		The physical geometry of an intersection covering the location and width of each approaching lane, egress lane, and valid paths between approaches and egresses. This flow also defines the location of stop lines, cross walks, specific traffic law restrict											
Solution		US: SAE Signal Control Messages - Mobile Internet (US)								Solution Issue Score:		480	
Issue		Issue Description						Assignment Notes				Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.										High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary				High	

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Map Update System		Destination:		Personal Information Device		Flow:		map updates	
Flow Description:		Map update which could include a new underlying static or real-time map or map layer(s) update.									

Service Package:	Map Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Map Update System	Destination:	Public Information Device	Flow:	map updates
Flow Description:	Map update which could include a new underlying static or real-time map or map layer(s) update.				

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460			
Source:		Map Update System		Destination:		Vehicle OBE		Flow:		intersection geometry			
Flow Description:		The physical geometry of an intersection covering the location and width of each approaching lane, egress lane, and valid paths between approaches and egresses. This flow also defines the location of stop lines, cross walks, specific traffic law restrict											
Solution		US: SAE Signal Control Messages - Mobile Internet (US)								Solution Issue Score:		480	
		Issue		Issue Description				Assignment Notes				Severity	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary				High	

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Map Update System		Destination:		Vehicle OBE		Flow:		map updates	
Flow Description:		Map update which could include a new underlying static or real-time map or map layer(s) update.									

Service Package:	Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Map Update System	Destination:	Vehicle OBE	Flow:	parking facility geometry	
Flow Description:	Precise spatial description of a parking facility that locates each parking space and the ingress and egress routes that are used to travel to and from the spaces.					
Source:	Map Update System	Destination:	Vehicle OBE	Flow:	roadway geometry	
Flow Description:	The physical geometry of a road segment that specifies the location and width of each lane, including normal lanes as well as special lanes for pedestrians and bicycles, transit vehicles, and trains. This flow also may include the curvature, grade, and					

Service Package:	Map Management			Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Other Map Update Systems	Destination:	Map Update System	Flow:	map update coordination		
Flow Description:	Exchange of geographic information between map update systems.						
Source:	Parking Management System	Destination:	Map Update System	Flow:	parking facility geometry		
Flow Description:	Precise spatial description of a parking facility that locates each parking space and the ingress and egress routes that are used to travel to and from the spaces.						

Service Package:	Map Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve				

Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460			
Source:		Vehicle OBE		Destination:		Map Update System		Flow:		vehicle location and motion for mapping			
Flow Description:		Vehicles may provide location and motion data independently using wide-area wireless communications to application/service providers who use the provided data to update their maps and maintain real-time traffic and road conditions information sourced from											
Solution		US: SAE Other J2735 - Mobile Internet (US)								Solution Issue Score:		495	
		Issue		Issue Description				Assignment Notes				Severity	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages				High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	

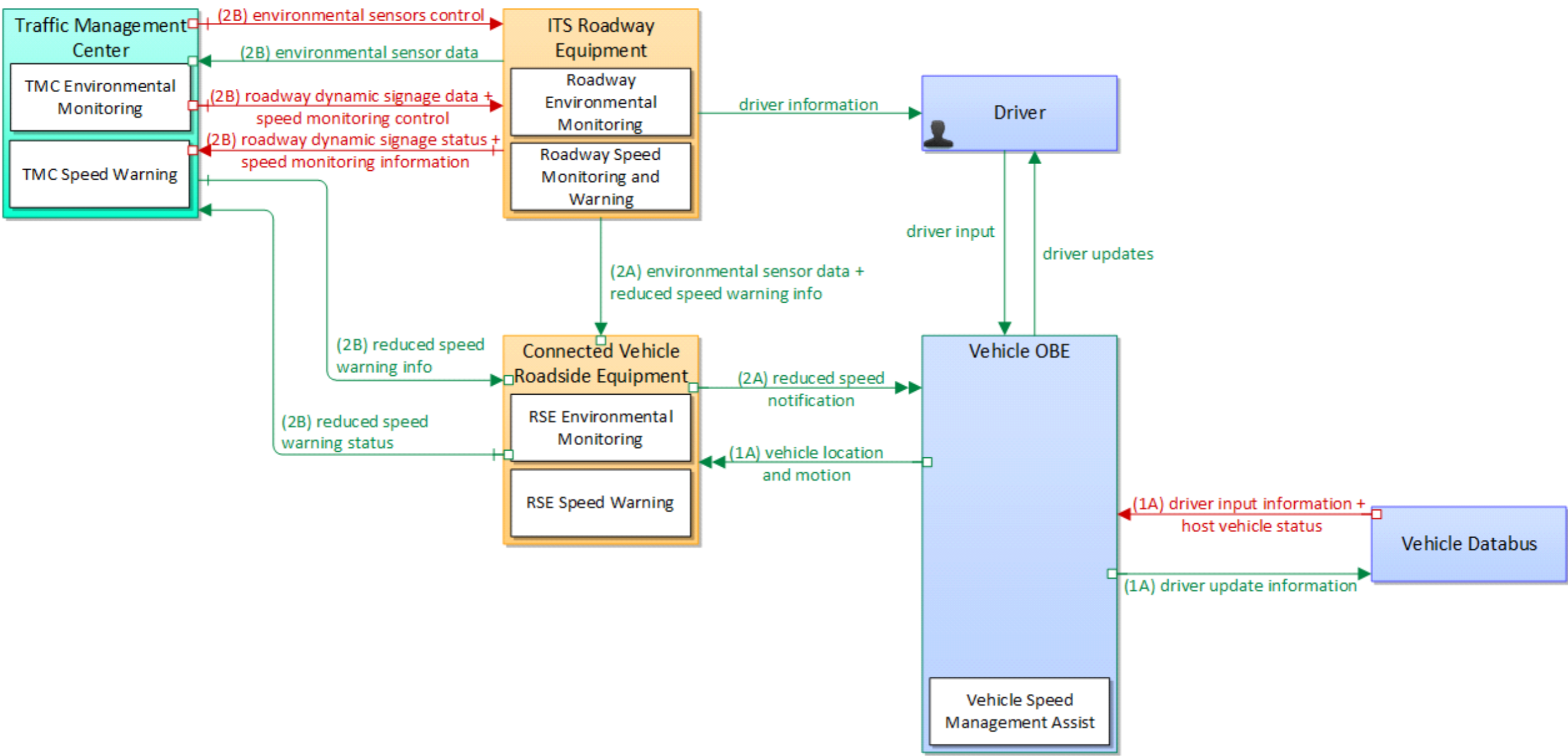
Service Package:		Map Management		Deployment Timeframe:		Support		Best (minimum) Issue Score		2460			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging			High			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols			High			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High			
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided			Medium			
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link			Medium			
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.			Medium			
Source:		Center		Destination:		Map Update System		Flow:		map update notification			
Flow Description:		Notification of maintenance, construction, and other activities that will result in medium to long term changes to road location and configuration that may impact navigable maps. This flow includes the timing of the changes and precise enumeration of the											
Solution		(None-Data) - NTCIP Messaging								Solution Issue Score:		30	
Issue		Issue Description					Assignment Notes			Severity			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium			

Service Package:	Map Management		Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Connected Vehicle Roadside Equipment	Destination:	Map Update System	Flow:	vehicle location data for mapping	
Flow Description:	Aggregate vehicle location data collected to support map data creation and refinement.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Personal Information Device	Flow:	intersection geometry	
Flow Description:	The physical geometry of an intersection covering the location and width of each approaching lane, egress lane, and valid paths between approaches and egresses. This flow also defines the location of stop lines, cross walks, specific traffic law restrict					

Service Package:	Map Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection geometry
Flow Description:	The physical geometry of an intersection covering the location and width of each approaching lane, egress lane, and valid paths between approaches and egresses. This flow also defines the location of stop lines, cross walks, specific traffic law restrict				
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	map updates
Flow Description:	Map update which could include a new underlying static or real-time map or map layer(s) update.				

Service Package:	Map Management	Deployment Timeframe:	Support	Best (minimum) Issue Score	2460
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	parking facility geometry
Flow Description:	Precise spatial description of a parking facility that locates each parking space and the ingress and egress routes that are used to travel to and from the spaces.				
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	roadway geometry
Flow Description:	The physical geometry of a road segment that specifies the location and width of each lane, including normal lanes as well as special lanes for pedestrians and bicycles, transit vehicles, and trains. This flow also may include the curvature, grade, and				

The curve speed warning application allows connected vehicles to receive information that it is approaching a curve along with the recommended speed for the curve. This capability allows the vehicle to provide a warning to the driver regarding the curve and its recommended speed. In addition, the vehicle can perform additional warning actions if the actual speed through the curve exceeds the recommended speed.



Curve Speed Warning			
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Service Package:	Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	reduced speed warning status	
Flow Description:	Speed warning application status reported by the RSE. This includes current operational state and status of the RSE and a record of measured vehicle speeds and notifications, alerts, and warnings issued.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	reduced speed notification	
Flow Description:	Reduced speed zone information provided to passing vehicles. This flow provides the reduced speed limit, the location and extent of the reduced speed zone, and associated warning information.					

Service Package:	Curve Speed Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
Source:	ITS Roadway Equipment		Destination:	Connected Vehicle Roadside Equipment		Flow:	environmental sensor data	
Flow Description:	Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en							
Solution	US: NTCIP Environmental Sensors - SNMPv3					Solution Issue Score:	36	
Issue	Issue Description			Assignment Notes			Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Environmental Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		reduced speed warning info	
Flow Description:		Roadway configuration data, current speed limits including time of day, week, or season speed limits as necessary, and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, r									

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		environmental sensor data			
Flow Description:		Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign -  SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Message Sign -  SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		speed monitoring information			
Flow Description:		System status including current operational state and logged information including measured speeds, warning messages displayed, and violation records.											
	Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Transportation Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		reduced speed warning info	
Flow Description:		Roadway configuration data, current speed limits including time of day, week, or season speed limits as necessary, and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, r									

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		environmental sensors control			
Flow Description:		Data used to configure and control environmental sensors.											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Environmental Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

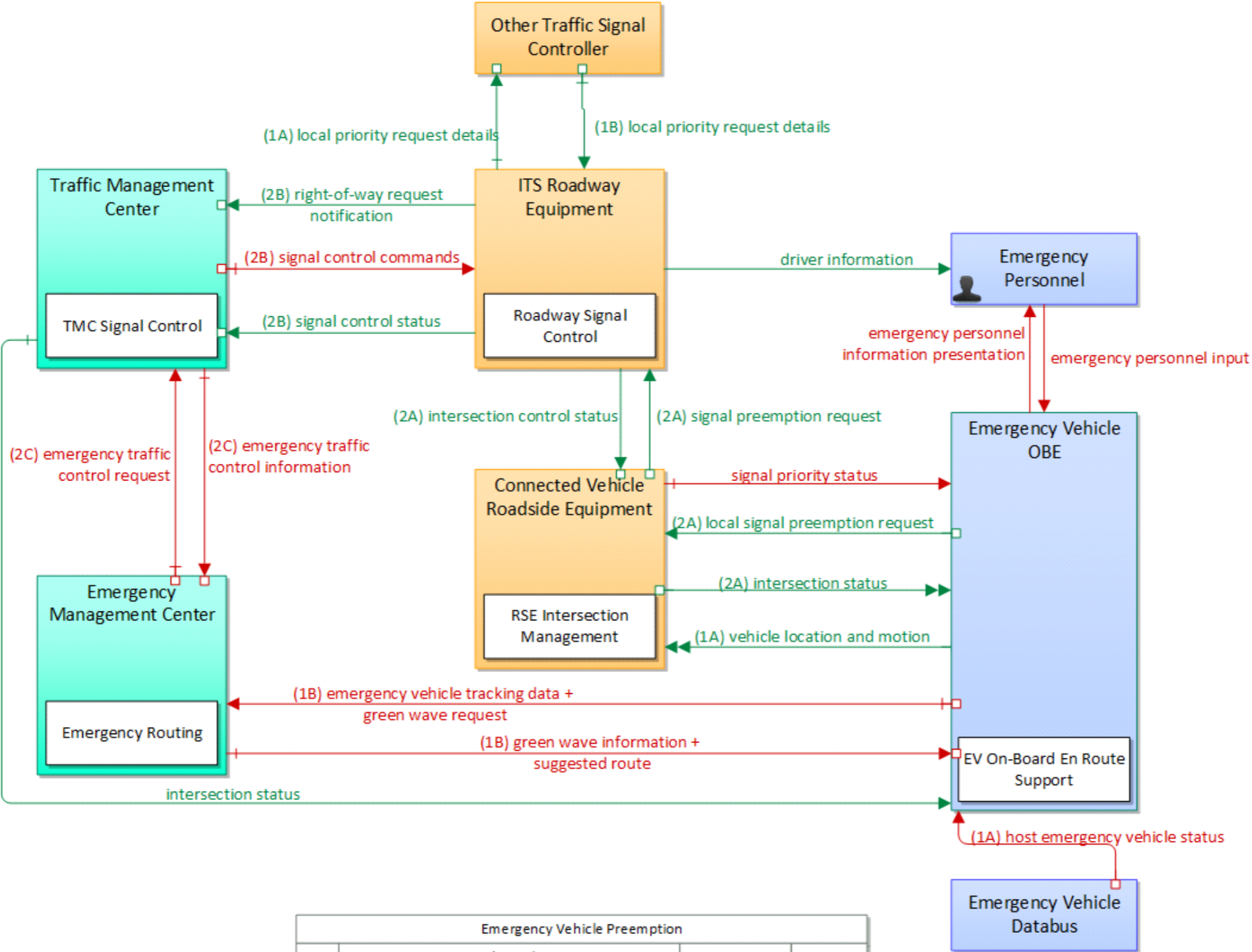
Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		speed monitoring control			
Flow Description:		Information used to configure and control automated speed monitoring, speed warning, and speed enforcement systems.											
Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Curve Speed Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	126	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Curve Speed Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		126	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle location and motion	
Flow Description:		Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.									

The Emergency Vehicle Preemption (EVP) application is a very high level of priority for emergency first responder vehicles. Historically, priority for emergency vehicles has been provided by special traffic signal timing strategies called preemption. The goal of EVP is to facilitate safe and efficient movement through intersections. As such, clearing queues and holding conflicting phases can facilitate emergency vehicle movement. For congested conditions, it may take additional time to clear a standing queue, so the ability to provide information in a timely fashion is important. In addition, transitioning back to normal traffic signal operations after providing EVP is an important consideration since the control objectives are significantly different.



Service Package:	Emergency Vehicle Preemption	Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
Source:	Connected Vehicle Roadside Equipment	Destination:	Emergency Vehicle OBE	Flow:	intersection status
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi				
Source:	Connected Vehicle Roadside Equipment	Destination:	Emergency Vehicle OBE	Flow:	signal priority status
Flow Description:	In response to a request for signal priority, this flow indicates the status of the priority or preemption request.				

Service Package:	Emergency Vehicle Preemption			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment		Flow:	signal preemption request	
Flow Description:	Direct request for preemption to a traffic signal controller that results in preemption of the current control plan and grants right-of-way to the requesting vehicle. This flow identifies the required phase and timing of the preemption. This flow may al						
Solution	US: NTCIP Signal Priority - SNMPv3					Solution Issue Score:	36
	Issue	Issue Description			Assignment Notes		Severity
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: NTCIP Signal Priority - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Emergency Management Center		Destination:		Emergency Vehicle OBE		Flow:		green wave information	
Flow Description:		It contains a response indicating that the result of the previous request for a green wave. The response may be success, or failure, and a recommended speed may be included in the response.									

Service Package:	Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
Source:	Emergency Management Center	Destination:	Emergency Vehicle OBE	Flow:	suggested route	
Flow Description:	Suggested route for a dispatched emergency or maintenance vehicle that may reflect current network conditions and the additional routing options available to en route emergency or maintenance vehicles that are not available to the general public.					
Solution	TPEG2 - Mobile Internet (US)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:	Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
Source:	Emergency Management Center	Destination:	Traffic Management Center	Flow:	emergency traffic control request	
Flow Description:	Special request to preempt the current traffic control strategy in effect at one or more signalized intersections or highway segments, activate traffic control and closure systems such as gates and barriers, activate safeguard systems, or use driver infor					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High		
Source:		Emergency Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		local signal preemption request	
Flow Description:		Direct control signal or message to a signalized intersection that results in preemption of the current control plan and grants right-of-way to the requesting vehicle.									

Service Package:	Emergency Vehicle Preemption	Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
Source:	Emergency Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.				

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128			
Source:		Emergency Vehicle OBE		Destination:		Emergency Management Center		Flow:		emergency vehicle tracking data			
Flow Description:		The current location and operating status of the emergency vehicle.											
	Solution		US: SAE Other J2735 - Mobile Internet (US)							Solution Issue Score:		495	
	Issue		Issue Description						Assignment Notes			Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary			High	

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.			Medium	
Source:		Emergency Vehicle OBE		Destination:		Emergency Management Center		Flow:		green wave request	
Flow Description:		It contains a request for priority to be given to the identified Vehicle at all signalised road junctions between two specified locations.									

Service Package:	Emergency Vehicle Preemption			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
Source:	ITS Roadway Equipment		Destination:	Connected Vehicle Roadside Equipment		Flow:	intersection control status	
Flow Description:	Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.							
Solution	US: NTCIP Traffic Signal - SNMPv3						Solution Issue Score:	39
	Issue	Issue Description				Assignment Notes		Severity
	Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.	Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.	Medium		

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		ITS Roadway Equipment		Destination:		Other Traffic Signal Controller		Flow:		local priority request details	
Flow Description:		It contains details of the local priority requests that have been received from Other Vehicles.									

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		right-of-way request notification			
Flow Description:		Notice that a request has occurred for signal prioritization, signal preemption, pedestrian call, multi-modal crossing activation, or other source for right-of-way.											
Solution		US: NTCIP Signal Priority - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Signal Priority - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: NTCIP Signal Priority - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		signal control status			
Flow Description:		Operational and status data of traffic signal control equipment including operating condition and current indications.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Traffic Signal Controller		Destination:		ITS Roadway Equipment		Flow:		local priority request details	
Flow Description:		It contains details of the local priority requests that have been received from Other Vehicles.									

Service Package:	Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
Source:	Traffic Management Center	Destination:	Emergency Management Center	Flow:	emergency traffic control information	
Flow Description:	Status of a special traffic control strategy or system activation implemented in response to an emergency traffic control request, a request for emergency access routes, a request for evacuation, a request to activate closure systems, a request to employ					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128			
Source:		Traffic Management Center		Destination:		Emergency Vehicle OBE		Flow:		intersection status			
Flow Description:		Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi											
Solution		US: SAE Signal Control Messages - Mobile Internet (US)								Solution Issue Score:		480	
Issue		Issue Description						Assignment Notes				Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.										High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary				High	

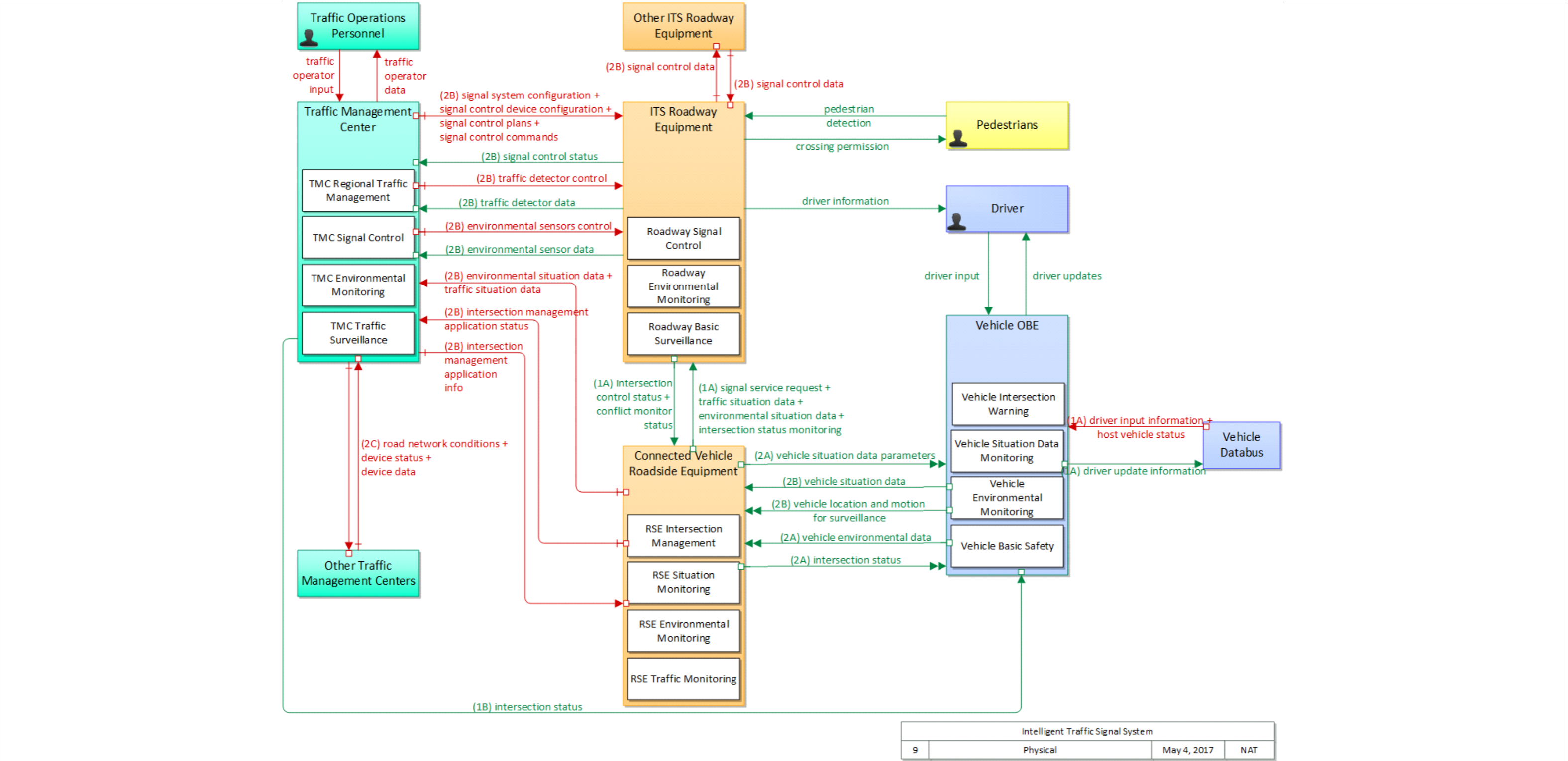
Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	TPEG2 is not designed to be transported over NTCIP Messaging services.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	UBL is not typically paired with NTCIP messaging		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1128			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control commands			
Flow Description:		Control of traffic signal controllers or field masters including clock synchronization.											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128	
	Solution		DDS: NTCIP Signal System Masters -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Emergency Vehicle Preemption		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1128
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

The Intelligent Traffic Signal System (ISIG) application uses both vehicle location and movement information from connected vehicles as well as infrastructure measurement of non-equipped vehicles to improve the operations of traffic signal control systems. The application utilizes the vehicle information to adjust signal timing for an intersection or group of intersections in order to improve traffic flow, including allowing platoon flow through the intersection. The application serves as an over-arching system optimization application, accommodating other mobility applications such as Transit Signal Priority, Freight Signal Priority, Emergency Vehicle Preemption, and Pedestrian Mobility to maximize overall arterial network performance. In addition, the application may consider additional inputs such as environmental situation information or the interface (i.e., traffic flow) between arterial signals and ramp meters.



Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	environmental situation data		
Flow Description:	Aggregated and filtered vehicle environmental data collected from vehicle safety and convenience systems including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock bra						
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	intersection status monitoring		
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow represents monitoring of communications by a receiver at the intersection to support monitoring for conflicts between actual signal states and RSE communica						

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Connected Vehicle Roadside Equipment		Destination:		ITS Roadway Equipment		Flow:		signal service request			
Flow Description:		A call for service or extension for a signal control phase that is issued by the RSE for connected vehicles approaching an intersection and/or pedestrians at a crosswalk. This flow identifies the desired phase and service time.											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Connected Vehicle Roadside Equipment		Destination:		ITS Roadway Equipment		Flow:		traffic situation data			
Flow Description:		Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.											
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Traffic Management Center		Flow:		environmental situation data	
Flow Description:		Aggregated and filtered vehicle environmental data collected from vehicle safety and convenience systems including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock bra									

Service Package:	Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	intersection management application status	
Flow Description:	Infrastructure application status reported by the RSE. This includes current operational state and status of the RSE and a log of operations.					

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center		Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.						
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Vehicle OBE		Flow:		intersection status	
Flow Description:		Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi									

Service Package:	Intelligent Traffic Signal System	Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle situation data parameters
Flow Description:	A request for vehicle situation data that includes parameters used to control the data that is reported and the flow of data reported by the vehicle. This flow identifies the type of data/snapshots that are requested and reporting parameters such as snap				

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
Source:	ITS Roadway Equipment		Destination:	Connected Vehicle Roadside Equipment		Flow:	conflict monitor status	
Flow Description:	A control flow that supports failsafe operation in the event that a conflict is detected that requires the RSE to enter a failsafe operating mode. Analogous to a traffic signal conflict monitor, this flow is issued when differences are detected between in							
Solution	US: NTCIP Traffic Signal - SNMPv3					Solution Issue Score:	39	
Issue	Issue Description				Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection control status			
Flow Description:		Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
Source:	ITS Roadway Equipment		Destination:	Other ITS Roadway Equipment		Flow:	signal control data	
Flow Description:	Information used to configure local traffic signal controllers.							
Solution	US: NTCIP Traffic Signal - SNMPv3					Solution Issue Score:	39	
Issue	Issue Description				Assignment Notes		Severity	
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
		Solution	DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description				Assignment Notes	Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging	High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		environmental sensor data			
Flow Description:		Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Environmental Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		signal control status			
Flow Description:		Operational and status data of traffic signal control equipment including operating condition and current indications.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
		Solution	DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	traffic detector data
Flow Description:	Raw and/or processed traffic detector data which allows derivation of traffic flow variables (e.g., speed, volume, and density measures) and associated information (e.g., congestion, potential incidents). This flow includes the traffic data and the opera						
Solution	US: NTCIP Transportation Sensors - SNMPv1/TLS					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description				Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Other ITS Roadway Equipment	Destination:	ITS Roadway Equipment		Flow:	signal control data	
Flow Description:	Information used to configure local traffic signal controllers.						
Solution	US: NTCIP Traffic Signal - SNMPv3					Solution Issue Score:	39
Issue	Issue Description				Assignment Notes		Severity
Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Other Traffic Management Centers	Destination:	Traffic Management Center	Flow:	device data		
Flow Description:	Data from detectors, environmental sensor stations, and traffic control devices including device inventory information.						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution	DDS: TMDD - OMG DDS					Solution Issue Score:	480
	Issue	Issue Description				Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The Electric Charging Hot Spot Notification was designed for DSRC		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High	

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Other Traffic Management Centers	Destination:	Traffic Management Center	Flow:	device status		
Flow Description:	Status information from devices						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Other Traffic Management Centers	Destination:	Traffic Management Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection management application info	
Flow Description:		Intersection and device configuration data and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.									

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		environmental sensors control			
Flow Description:		Data used to configure and control environmental sensors.											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Environmental Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control commands			
Flow Description:		Control of traffic signal controllers or field masters including clock synchronization.											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control device configuration			
Flow Description:		Data used to configure traffic signal control equipment including local controllers and system masters.											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control plans			
Flow Description:		Traffic signal timing parameters including minimum green time and interval durations for basic operation and cycle length, splits, offset, phase sequence, etc. for coordinated systems.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes			Severity		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes			Severity		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes			Severity		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
		Solution	DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal system configuration			
Flow Description:		Data used to configure traffic signal systems including configuring control sections and mode of operation (time based or traffic responsive).											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		traffic detector control			
Flow Description:		Information used to configure and control traffic sensor systems.											
Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Traffic Management Center	Destination:	Other Traffic Management Centers	Flow:	device data		
Flow Description:	Data from detectors, environmental sensor stations, and traffic control devices including device inventory information.						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		Other Traffic Management Centers		Flow:		device status			
Flow Description:		Status information from devices											
Solution		US: TMDD - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Traffic Management Center	Destination:	Other Traffic Management Centers		Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

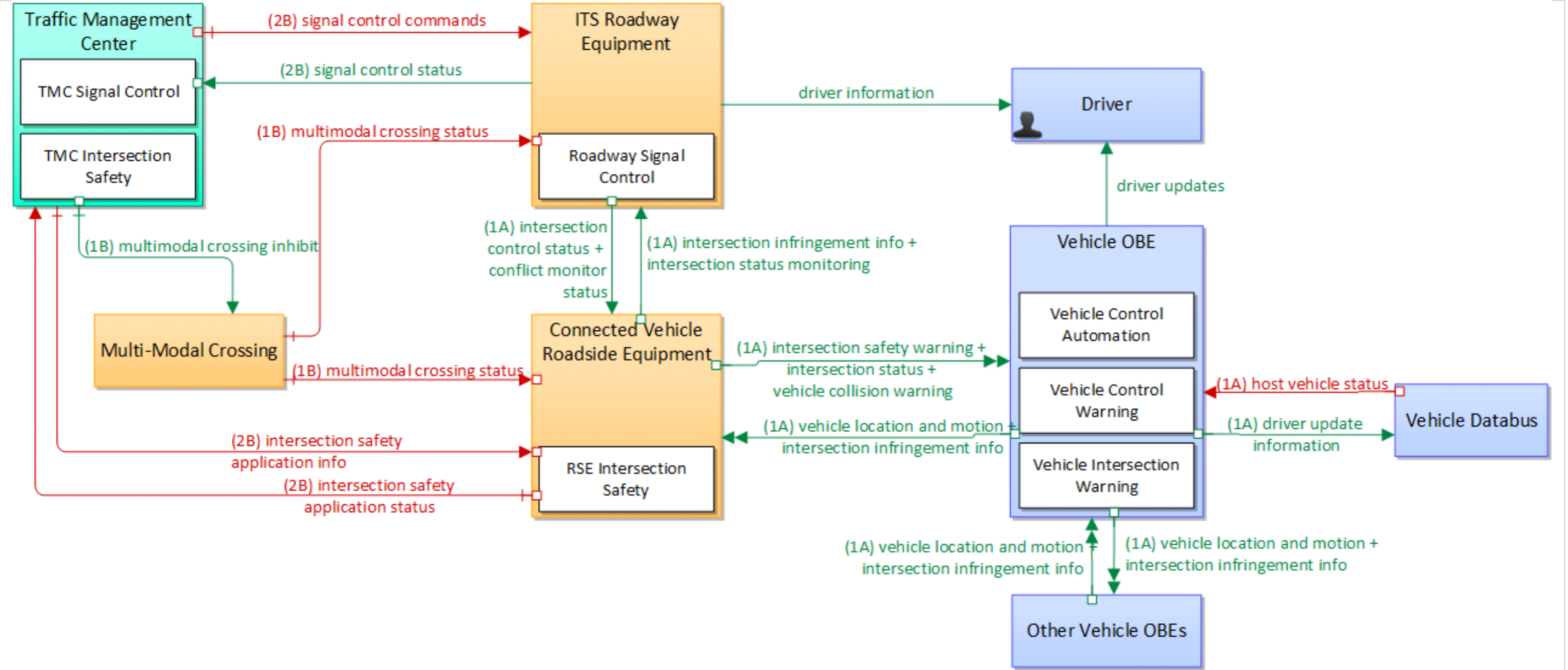
Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963			
Source:		Traffic Management Center		Destination:		Vehicle OBE		Flow:		intersection status			
Flow Description:		Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi											
Solution		US: SAE Other J2735 - Mobile Internet (US)								Solution Issue Score:		495	
Issue		Issue Description								Assignment Notes		Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.										High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								A port number has not been assigned to this message set.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								It is unclear what encoding rules should be used as well as what port number.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								No port number has been assigned to these messages		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								The Electric Charging Hot Spot Notification was designed for DSRC		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								These standards are not intended to operate together, but they propvide most of the information necessary		High	

Service Package:		Intelligent Traffic Signal System		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		963	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.			Medium	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle environmental data	
Flow Description:		Data from vehicle safety and convenience systems that can be used to estimate environmental conditions, including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock brak									

Service Package:	Intelligent Traffic Signal System			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	963
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance		
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve						
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle situation data		
Flow Description:	This flow represents vehicle snapshots that may be provided by the vehicle to support traffic and environmental conditions monitoring. Snapshots are collected by the vehicle for specific events (e.g., when a sensor exceeds a threshold) or periodically an						

This service package enables a connected vehicle approaching an instrumented signalized intersection to receive information from the infrastructure regarding the signal timing and the geometry of the intersection. The vehicle uses its speed and acceleration profile, along with the signal timing and geometry information to determine if it appears likely that the vehicle will be able to pass safely through the intersection without violating the signal or colliding with other vehicles. If the vehicle determines that proceeding through the intersection is unsafe, a warning is provided to the driver and/or collision avoidance actions are taken, depending on the automation level of the vehicle.



Intersection Safety Warning and Collision Avoidance			
9	Physical	Nov 14, 2017	NAT

Service Package:	Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	intersection infringement info	
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's					
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	intersection status monitoring	
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow represents monitoring of communications by a receiver at the intersection to support monitoring for conflicts between actual signal states and RSE communica					

Service Package:	Intersection Safety Warning and Collision Avoidance			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	intersection safety application status		
Flow Description:	Infrastructure safety application status reported by the RSE. This includes current operational state and status of the RSE and a record of intersection safety issues identified and alerts and warnings issued.						
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection safety warning		
Flow Description:	A warning of an imminent unsafe vehicle infringement at an intersection that may endanger other vehicles or pedestrians. This allows vehicles approaching the intersection to be warned in the event of an imminent red light or stop sign violation or potent						

Service Package:	Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection status	
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle collision warning	
Flow Description:	Notification that the possibility of an imminent collision has been detected. Vehicle IDs are included by the sender so the recipient can determine relevance and identify the closing vehicle.					

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		96			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		conflict monitor status			
Flow Description:		A control flow that supports failsafe operation in the event that a conflict is detected that requires the RSE to enter a failsafe operating mode. Analogous to a traffic signal conflict monitor, this flow is issued when differences are detected between in											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		96			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection control status			
Flow Description:		Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		96			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		signal control status			
Flow Description:		Operational and status data of traffic signal control equipment including operating condition and current indications.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		96	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High		
Source:		Multi-Modal Crossing		Destination:		Connected Vehicle Roadside Equipment		Flow:		multimodal crossing status	
Flow Description:		Indication of operational status and pending requests for right-of-way from equipment supporting the non-highway mode at multimodal crossings. This may contain commands/messages for Drivers, Cyclists and Pedestrians not to enter a multi-modal crossing bec									

Service Package:	Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Multi-Modal Crossing	Destination:	ITS Roadway Equipment	Flow:	multimodal crossing status	
Flow Description:	Indication of operational status and pending requests for right-of-way from equipment supporting the non-highway mode at multimodal crossings. This may contain commands/messages for Drivers, Cyclists and Pedestrians not to enter a multi-modal crossing bec					
Source:	Other Vehicle OBEs	Destination:	Vehicle OBE	Flow:	intersection infringement info	
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's					

Service Package:	Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Other Vehicle OBEs	Destination:	Vehicle OBE	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	intersection safety application info	
Flow Description:	Intersection and device configuration data and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.					

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		96			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control commands			
Flow Description:		Control of traffic signal controllers or field masters including clock synchronization.											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

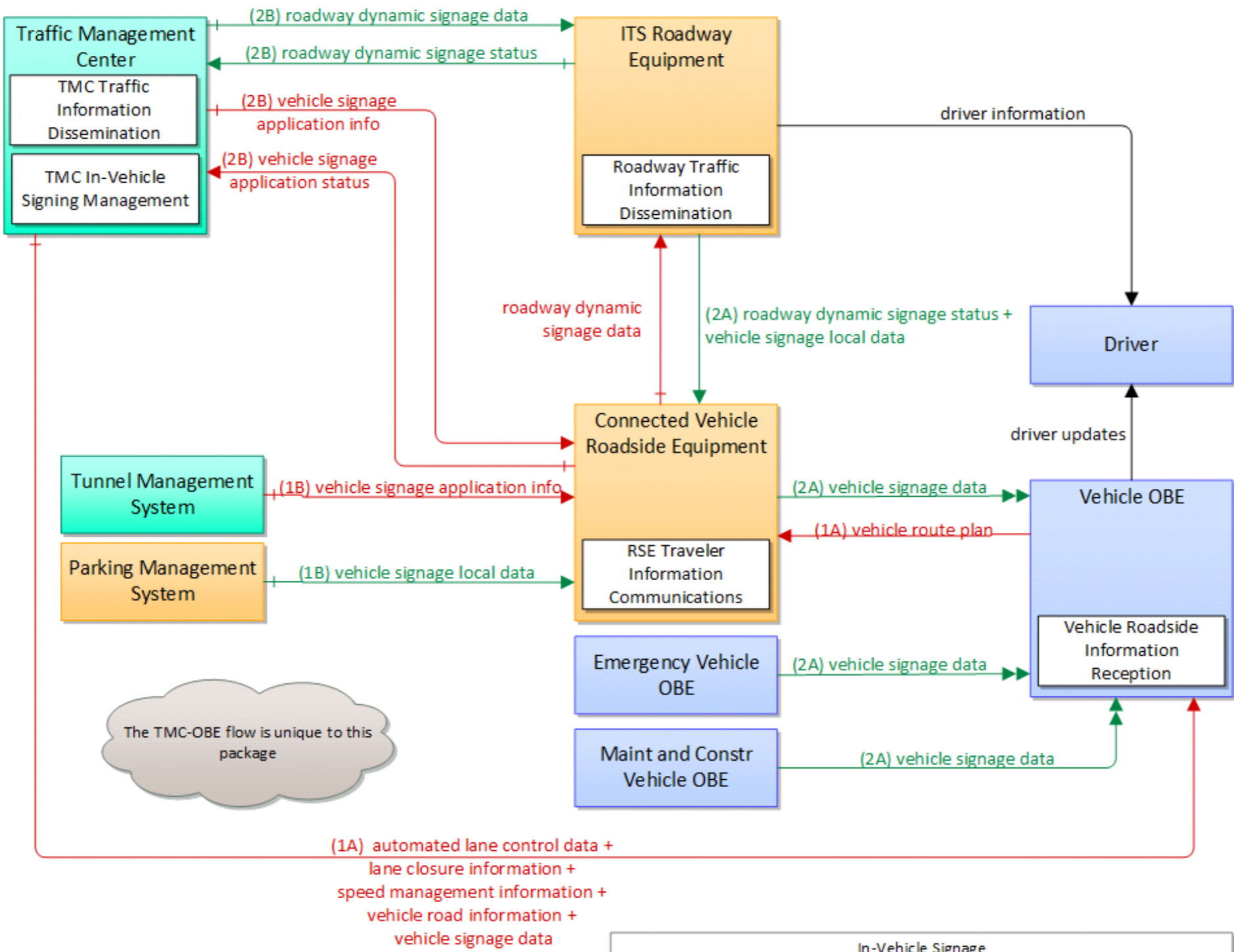
Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		96	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Multi-Modal Crossing		Flow:		multimodal crossing inhibit	
Flow Description:		It contains commands that will inhibit the operation of a multi-modal crossing so that it will not stop or restrict the normal flow of road traffic.									

Service Package:	Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	intersection infringement info	
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's					
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					

Service Package:	Intersection Safety Warning and Collision Avoidance		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	96
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	intersection infringement info	
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's					
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					

The In-Vehicle Signage application augments regulatory, warning, and informational signs and signals by providing information directly to drivers through in-vehicle devices. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic information (e.g., current signal states including highway intersection and highway-rail intersection status and local conditions warnings identified by local environmental sensors). This application also includes the capability for maintenance and construction and emergency vehicles to transmit sign information to vehicles in the vicinity so that in vehicle signing can be used without fixed infrastructure in work zones and around incidents.



In-Vehicle Signage			
2	Physical	Apr 18, 2017	NAT

Service Package:	In-Vehicle Signage			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment		Flow:	roadway dynamic signage data	
Flow Description:	Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ						
Solution	US: NTCIP Message Sign - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Traffic Management Center		Flow:		vehicle signage application status	
Flow Description:		In-vehicle signing application status reported by the RSE. This includes current operational state and status of the RSE and a log of messages sent to passing vehicles.									

Service Package:	In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					
Source:	Emergency Vehicle OBE	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					

Service Package:	In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	roadway dynamic signage status		
Flow Description:	Current operating status of dynamic message signs.						
Solution	US: NTCIP Message Sign - SNMPv3					Solution Issue Score:	36
	Issue	Issue Description			Assignment Notes		Severity
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle signage local data	
Flow Description:		Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co									

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Message Sign - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High		
Source:		Maint and Constr Vehicle OBE		Destination:		Vehicle OBE		Flow:		vehicle signage data	
Flow Description:		In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic									

Service Package:	In-Vehicle Signage			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147
Source:	Parking Management System	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage local data		
Flow Description:	Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co						
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage application info		
Flow Description:	In-vehicle signing application configuration data and messaging parameters. This flow provides a list of regulatory, warning, and information messages to be displayed and parameters that support scheduling and prioritizing messages to be issued to passin						

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign -  SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign -  SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Vehicle OBE		Flow:		automated lane control data	
Flow Description:		Control commands and operating parameters provided to RSEs that control and monitor automated vehicle operations, including platooned vehicles using cooperative adaptive cruise control. This flow includes platoon parameters including maximum platoon size									

Service Package:	In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
Source:	Traffic Management Center	Destination:	Vehicle OBE	Flow:	lane closure information		
Flow Description:	Lane closure information provided to passing vehicles. This flow provides information about roadway configuration changes such as lane closures and shifts.						
	Solution	TPEG2 - Mobile Internet (US)				Solution Issue Score:	15
	Issue	Issue Description			Assignment Notes		Severity
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution	US: SAE Other J2735 - Mobile Internet (US)					Solution Issue Score:	495
	Issue	Issue Description				Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging	High	

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Unusual combination of protocols		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.		Application-level authentication not provided		Medium
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.		It is unclear what security is provided with this link		Medium
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.		SIRI does not currently provide application level authentication.		Medium

Service Package:	In-Vehicle Signage	Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
Source:	Traffic Management Center	Destination:	Vehicle OBE	Flow:	speed management information	
Flow Description:	Target speeds, speed advisories, and/or speed limit information provided to a vehicle. The information includes the current speed value(s), the route segment(s) and lane(s) where the speeds apply, and an indication of whether the speeds are suggested tar					
Solution	TPEG2 - Mobile Internet (US)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution		US: SAE Traveler Info - Mobile Internet (US)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		In-Vehicle Signage			Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High		
Source:		Traffic Management Center			Destination:		Vehicle OBE		Flow:		vehicle road information		
Flow Description:		Road geometry, layout, and traffic regulation information that is shared with and between vehicles.											

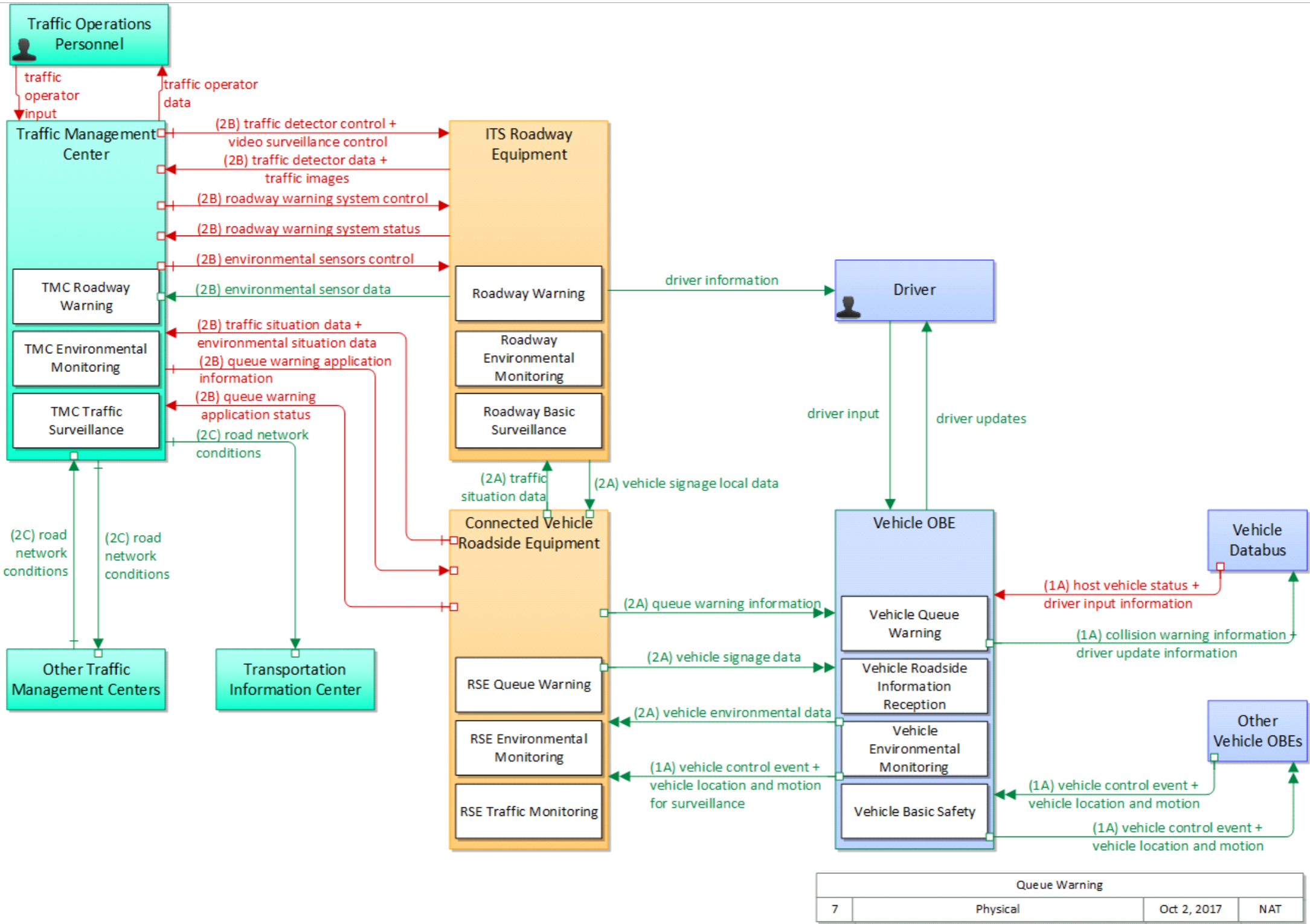
Service Package:	In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147
Source:	Traffic Management Center	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					
Solution	TPEG2 - Mobile Internet (US)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147	
	Solution		US: SAE Traveler Info - Mobile Internet (US)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		In-Vehicle Signage		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		147	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Tunnel Management System		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle signage application info	
Flow Description:		In-vehicle signing application configuration data and messaging parameters. This flow provides a list of regulatory, warning, and information messages to be displayed and parameters that support scheduling and prioritizing messages to be issued to passin									

Service Package:	In-Vehicle Signage		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	147
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle route plan	
Flow Description:	It contains the route for the latest Vehicle Trip Plan that is being used to guide the Driver.					

The Queue Warning (Q-WARN) application utilizes connected vehicle technologies, including vehicle-to-infrastructure (V2I) and vehicle-to-vehicle (V2V) communications, to enable vehicles within the queue event to automatically broadcast their queued status information (e.g., rapid deceleration, disabled status, lane location) to nearby upstream vehicles and to infrastructure-based central entities (such as the TMC). The infrastructure will broadcast queue warnings to vehicles in order to minimize or prevent rear-end or other secondary collisions. The Q-WARN application is not intended to operate as a crash avoidance system (e.g., like the forward collision warning [FCW] safety application). In contrast to such systems, Q-WARN will engage well in advance of any potential crash situation, providing messages and information to the driver in order to minimize the likelihood of his needing to take crash avoidance or mitigation actions later. The Q-WARN application performs two essential tasks: queue determination (detection and/or prediction) and queue information dissemination. In order to perform these tasks, Q-WARN solutions can be vehicle-based or infrastructure-based or utilize a combination of each.



Service Package:	Queue Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237		
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment				Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.								
Solution	US: NTCIP Transportation Sensors - SNMPv3						Solution Issue Score:	36	
Issue	Issue Description				Assignment Notes			Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC					Solution Issue Score:	480
Issue		Issue Description				Assignment Notes		Severity
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Traffic Management Center		Flow:		environmental situation data	
Flow Description:		Aggregated and filtered vehicle environmental data collected from vehicle safety and convenience systems including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock bra									

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	queue warning application status	
Flow Description:	Queue warning application status reported by the RSE. This includes current operational state and status of the RSE and a record of measured vehicle speeds and identified queues.					

Service Package:	Queue Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center		Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.						
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
	Issue	Issue Description			Assignment Notes		Severity
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC					Solution Issue Score:	480
Issue		Issue Description				Assignment Notes		Severity
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Vehicle OBE		Flow:		queue warning information	
Flow Description:		Information regarding formed or impending queues (location of the end of queue, estimated duration of the queue, and other descriptions of the queue condition) and recommendations for upstream vehicles including speed reduction, lane change, or diversion									

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage local data	
Flow Description:	Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co					

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		environmental sensor data			
Flow Description:		Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		roadway warning system status			
Flow Description:		Current operating status of roadway warning systems.											
	Solution		US: NTCIP Message Sign - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Message Sign - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237		
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	traffic detector data	
Flow Description:	Raw and/or processed traffic detector data which allows derivation of traffic flow variables (e.g., speed, volume, and density measures) and associated information (e.g., congestion, potential incidents). This flow includes the traffic data and the opera							
Solution	US: NTCIP Transportation Sensors - SNMPv1/TLS					Solution Issue Score:	15	
Issue	Issue Description				Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium	
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36	
Issue	Issue Description				Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC					Solution Issue Score:	480
Issue		Issue Description				Assignment Notes		Severity
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Queue Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	traffic images
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.						
Solution	US: NTCIP CCTV - SNMPv1/TLS					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP CCTV - SNMPv3					Solution Issue Score:	36
Issue	Issue Description				Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
	Solution		DDS: NTCIP CCTV - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Other Traffic Management Centers	Destination:	Traffic Management Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
	Solution		DDS: TMDD - OMG DDS							Solution Issue Score:		480	
	Issue		Issue Description					Assignment Notes				Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					TPEG2 is not designed to be transported over NTCIP Messaging services.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					UBL is not typically paired with NTCIP messaging				High	

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Vehicle OBEs		Destination:		Vehicle OBE		Flow:		vehicle control event	
Flow Description:		Notification that the vehicle has performed an emergency maneuver that could impact the safety of surrounding vehicles. This includes hard braking and activation of traction/stability control systems or other maneuvers that warrant immediate notification									

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Other Vehicle OBEs	Destination:	Vehicle OBE	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	queue warning application information	
Flow Description:	Information regarding formed or impending queues (location of the end of queue, estimated duration of the queue, and other descriptions of the queue condition) and recommendations for upstream vehicles including speed reduction, lane change, or diversion					

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		environmental sensors control			
Flow Description:		Data used to configure and control environmental sensors.											
	Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Environmental Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237		
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway warning system control		
Flow Description:		Information used to configure and control roadway warning systems.										
Solution		US: NTCIP Message Sign - SNMPv1/TLS							Solution Issue Score:		15	
Issue		Issue Description					Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign - SNMPv3							Solution Issue Score:		36	
Issue		Issue Description					Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		traffic detector control			
Flow Description:		Information used to configure and control traffic sensor systems.											
Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC					Solution Issue Score:	480
Issue		Issue Description				Assignment Notes		Severity
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		video surveillance control			
Flow Description:		Information used to configure and control video surveillance systems.											
Solution		US: NTCIP CCTV - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP CCTV - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237	
	Solution		DDS: NTCIP CCTV - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Traffic Management Center	Destination:	Other Traffic Management Centers	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
	Solution		DDS: TMDD - OMG DDS							Solution Issue Score:		480	
	Issue		Issue Description					Assignment Notes				Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					TPEG2 is not designed to be transported over NTCIP Messaging services.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					UBL is not typically paired with NTCIP messaging				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Unusual combination of protocols				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High		

Service Package:		Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.	High

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

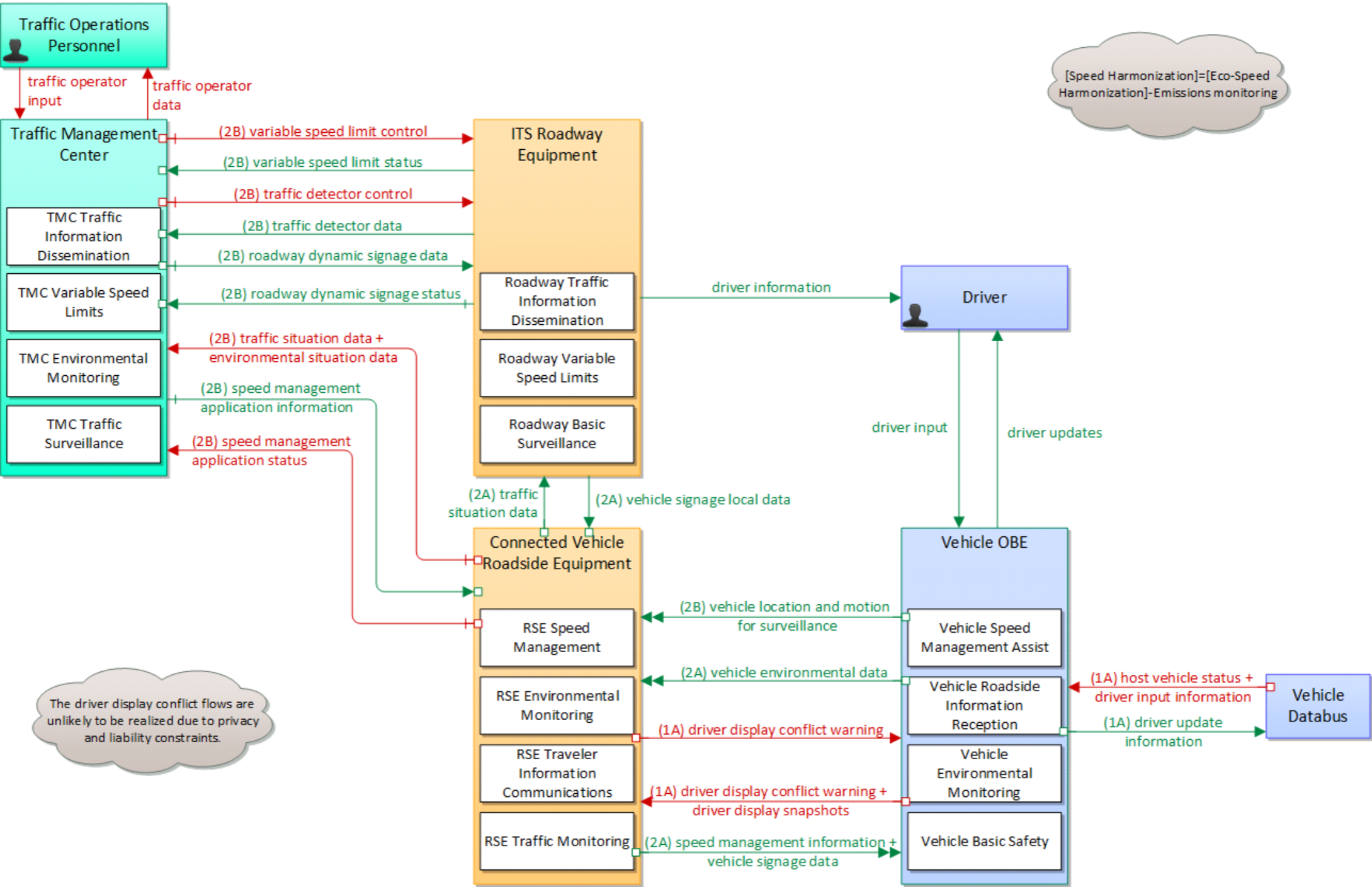
Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237			
	Solution		DDS: TMDD - OMG DDS							Solution Issue Score:		480	
	Issue		Issue Description					Assignment Notes				Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					TPEG2 is not designed to be transported over NTCIP Messaging services.				High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					UBL is not typically paired with NTCIP messaging				High	

Service Package:		Queue Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		237	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle control event	
Flow Description:		Notification that the vehicle has performed an emergency maneuver that could impact the safety of surrounding vehicles. This includes hard braking and activation of traction/stability control systems or other maneuvers that warrant immediate notification									

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle environmental data	
Flow Description:	Data from vehicle safety and convenience systems that can be used to estimate environmental conditions, including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock brak					
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve					

Service Package:	Queue Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	237
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle control event	
Flow Description:	Notification that the vehicle has performed an emergency maneuver that could impact the safety of surrounding vehicles. This includes hard braking and activation of traction/stability control systems or other maneuvers that warrant immediate notification					
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					

The Speed Harmonization application determines speed recommendations based on traffic conditions and weather information. The speed recommendations can be regulatory (e.g. variable speed limits) or advisory. The purpose of speed harmonization is to change traffic speed on links that approach areas of traffic congestion, bottlenecks, incidents, special events, and other conditions that affect flow. Speed harmonization assists in maintaining flow, reducing unnecessary stops and starts, and maintaining consistent speeds. The application utilizes connected vehicle V2I communication to detect the precipitating roadway or congestion conditions that might necessitate speed harmonization, to generate the appropriate response plans and speed recommendation strategies for upstream traffic, and to broadcast such recommendations to the affected vehicles. The speed recommendations can be provided in-vehicle for connected vehicles, or through roadside signage for non-connected vehicles.



Speed Harmonization			
8	Physical	Oct 2, 2017	NAT

Service Package:	Speed Harmonization			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment		Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.						
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
	Issue	Issue Description			Assignment Notes		Severity
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	



Service Package:	Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	speed management application status	
Flow Description:	Speed management application status reported by the RSE. This includes current operational state and status of the RSE and a record of measured vehicle speeds and current speed targets, advisories, and limits.					

Service Package:	Speed Harmonization			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center		Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.						
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Speed Harmonization		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		162	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Vehicle OBE		Flow:		driver display conflict warning	
Flow Description:		A warning that the vehicle is displaying information in-vehicle that differs from information displayed by the infrastructure.									

Service Package:	Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	speed management information	
Flow Description:	Target speeds, speed advisories, and/or speed limit information provided to a vehicle. The information includes the current speed value(s), the route segment(s) and lane(s) where the speeds apply, and an indication of whether the speeds are suggested tar					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					

Service Package:	Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage local data	
Flow Description:	Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co					

Service Package:		Speed Harmonization		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		162			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Message Sign - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Speed Harmonization			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	traffic detector data
Flow Description:	Raw and/or processed traffic detector data which allows derivation of traffic flow variables (e.g., speed, volume, and density measures) and associated information (e.g., congestion, potential incidents). This flow includes the traffic data and the opera						
Solution	US: NTCIP Transportation Sensors - SNMPv1/TLS					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description				Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Speed Harmonization		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		162			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		variable speed limit status			
Flow Description:		Current operating status of the variable speed limit systems including the state of the equipment.											
	Solution		US: NTCIP Message Sign - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Message Sign - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High



Service Package:	Speed Harmonization			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Traffic Management Center		Destination:	ITS Roadway Equipment	Flow:	roadway dynamic signage data	
Flow Description:	Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ						
Solution	US: NTCIP Message Sign - SNMPv1/TLS					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP Message Sign - SNMPv3					Solution Issue Score:	36
Issue	Issue Description				Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
		Solution	DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Speed Harmonization		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		162			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		traffic detector control			
Flow Description:		Information used to configure and control traffic sensor systems.											
Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Speed Harmonization		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		162			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		variable speed limit control			
Flow Description:		Information used to configure and control variable speed limit systems including the equipment used to provide current speed limits and other information to drivers.											
Solution		US: NTCIP Message Sign - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

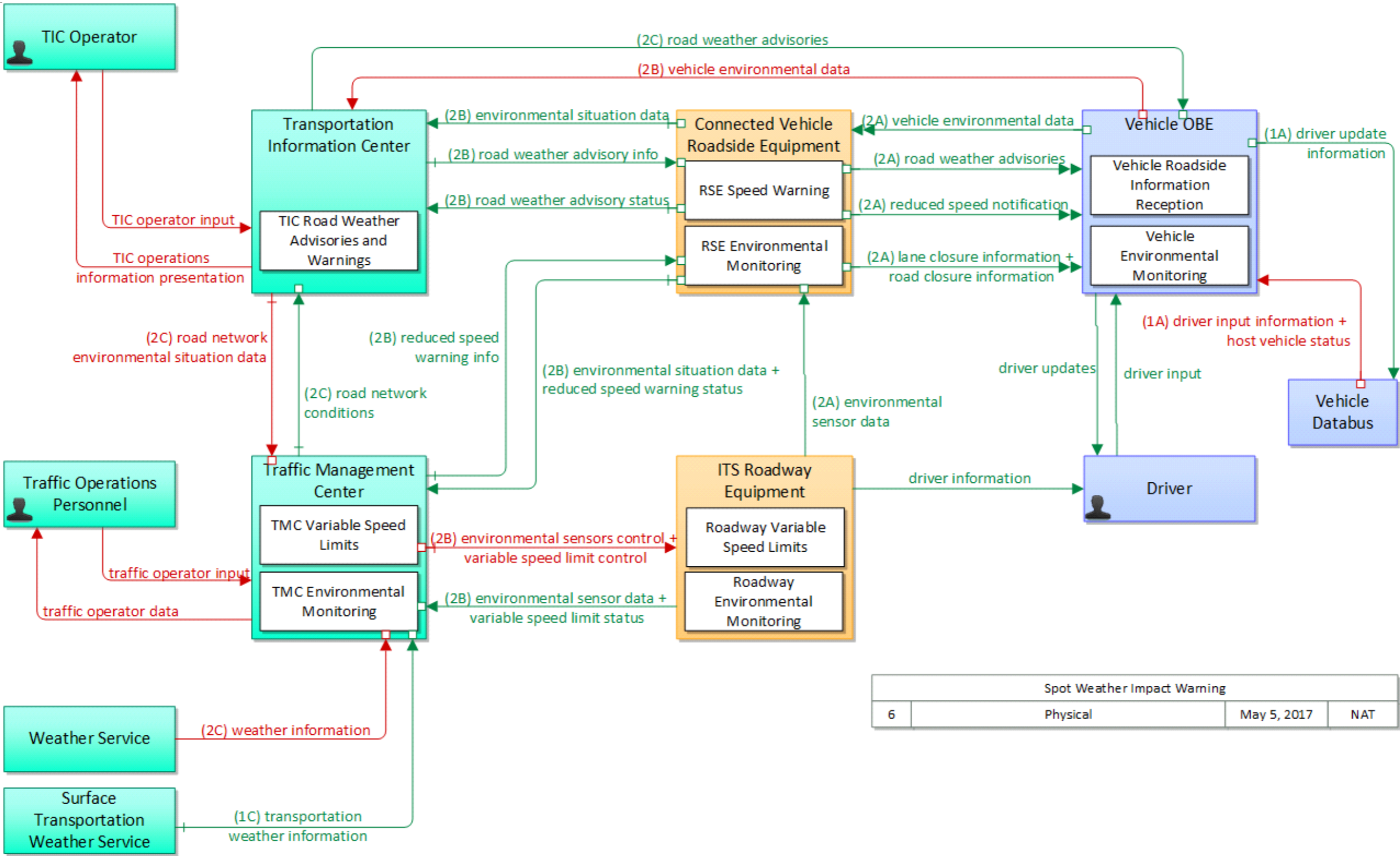
Service Package:		Speed Harmonization		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162	
		Solution	DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Speed Harmonization		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		162	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		driver display conflict warning	
Flow Description:		A warning that the vehicle is displaying information in-vehicle that differs from information displayed by the infrastructure.									

Service Package:	Speed Harmonization			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	driver display snapshots		
Flow Description:	Record of information that is being displayed to the driver. For use in detecting conflicts between in-vehicle displays and information displayed by the infrastructure.						
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle environmental data		
Flow Description:	Data from vehicle safety and convenience systems that can be used to estimate environmental conditions, including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock brak						

Service Package:	Speed Harmonization	Deployment Timeframe:	Day 1	Best (minimum) Issue Score	162
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve				

The Spot Weather Impact Warning (SWIW) application will alert drivers to unsafe conditions or road closure at specific points on the downstream roadway as a result of weather-related impacts, which include, but are not limited to high winds, flood conditions, ice, or fog. Application designed to use standalone weather systems to warn drivers about inclement weather conditions that may impact travel conditions. Real time weather information is collected via RWIS or via vehicle based probe data. The information is processed to determine the nature of the alert or warning to be delivered and then communicated to connected vehicles. If the warning includes road closure then diversion information can be provided. For non-equipped vehicles the alerts or warnings will be provided via roadway signage. In addition, the roadway equipment may calculate the appropriate speed for current weather conditions and provide this information to the connected vehicle or on roadway signage.



Service Package:	Spot Weather Impact Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	environmental situation data		
Flow Description:	Aggregated and filtered vehicle environmental data collected from vehicle safety and convenience systems including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock bra						
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	reduced speed warning status		
Flow Description:	Speed warning application status reported by the RSE. This includes current operational state and status of the RSE and a record of measured vehicle speeds and notifications, alerts, and warnings issued.						

Service Package:	Spot Weather Impact Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Connected Vehicle Roadside Equipment	Destination:	Transportation Information Center	Flow:	environmental situation data		
Flow Description:	Aggregated and filtered vehicle environmental data collected from vehicle safety and convenience systems including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock bra						
Source:	Connected Vehicle Roadside Equipment	Destination:	Transportation Information Center	Flow:	road weather advisory status		
Flow Description:	Current RSE application status that is monitored by the back office center including the operational state of the RSE, current configuration parameters, and a log of advisories issued. The advisories may include advisories that are issued by the RSE base						

Service Package:	Spot Weather Impact Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	lane closure information			
Flow Description:	Lane closure information provided to passing vehicles. This flow provides information about roadway configuration changes such as lane closures and shifts.							
	Solution	TPEG2 - Local Broadcast Wireless (US)					Solution Issue Score:	15
	Issue	Issue Description				Assignment Notes		Severity
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	reduced speed notification			
Flow Description:	Reduced speed zone information provided to passing vehicles. This flow provides the reduced speed limit, the location and extent of the reduced speed zone, and associated warning information.							

Service Package:	Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	road closure information	
Flow Description:	Road closure information provided to passing vehicles. This flow provides information about weather related road closures along with diversion information.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	road weather advisories	
Flow Description:	Segment-specific weather and road conditions including real-time advisories of deteriorating road and weather conditions, medium-term advisories for the next 2-12 hours, and long-term advisories more than 12 hours into the future. The advisories may incl					

Service Package:	Spot Weather Impact Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
Source:	ITS Roadway Equipment		Destination:	Connected Vehicle Roadside Equipment		Flow:	environmental sensor data	
Flow Description:	Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en							
Solution	US: NTCIP Environmental Sensors - SNMPv3					Solution Issue Score:	36	
Issue	Issue Description			Assignment Notes		Severity		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium		
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium		

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		environmental sensor data			
Flow Description:		Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		variable speed limit status			
Flow Description:		Current operating status of the variable speed limit systems including the state of the equipment.											
	Solution		US: NTCIP Message Sign -  SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Message Sign -  SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Spot Weather Impact Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Surface Transportation Weather Service	Destination:	Traffic Management Center	Flow:	transportation weather information		
Flow Description:	Current and forecast road conditions and weather information (e.g., surface condition, flooding, wind advisories, visibility, etc.) associated with the transportation network. This information is of a resolution, timeliness, and accuracy to be useful in						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		reduced speed warning info	
Flow Description:		Roadway configuration data, current speed limits including time of day, week, or season speed limits as necessary, and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, r									

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		environmental sensors control			
Flow Description:		Data used to configure and control environmental sensors.											
	Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Environmental Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		variable speed limit control			
Flow Description:		Information used to configure and control variable speed limit systems including the equipment used to provide current speed limits and other information to drivers.											
Solution		US: NTCIP Message Sign - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Transportation Information Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		road weather advisory info	
Flow Description:		Road weather advisories and associated configuration and control information that are used to manage the RSE.  Advisories include segment-specific weather and road conditions including real-time advisories of deteriorating road and weather conditions, med									

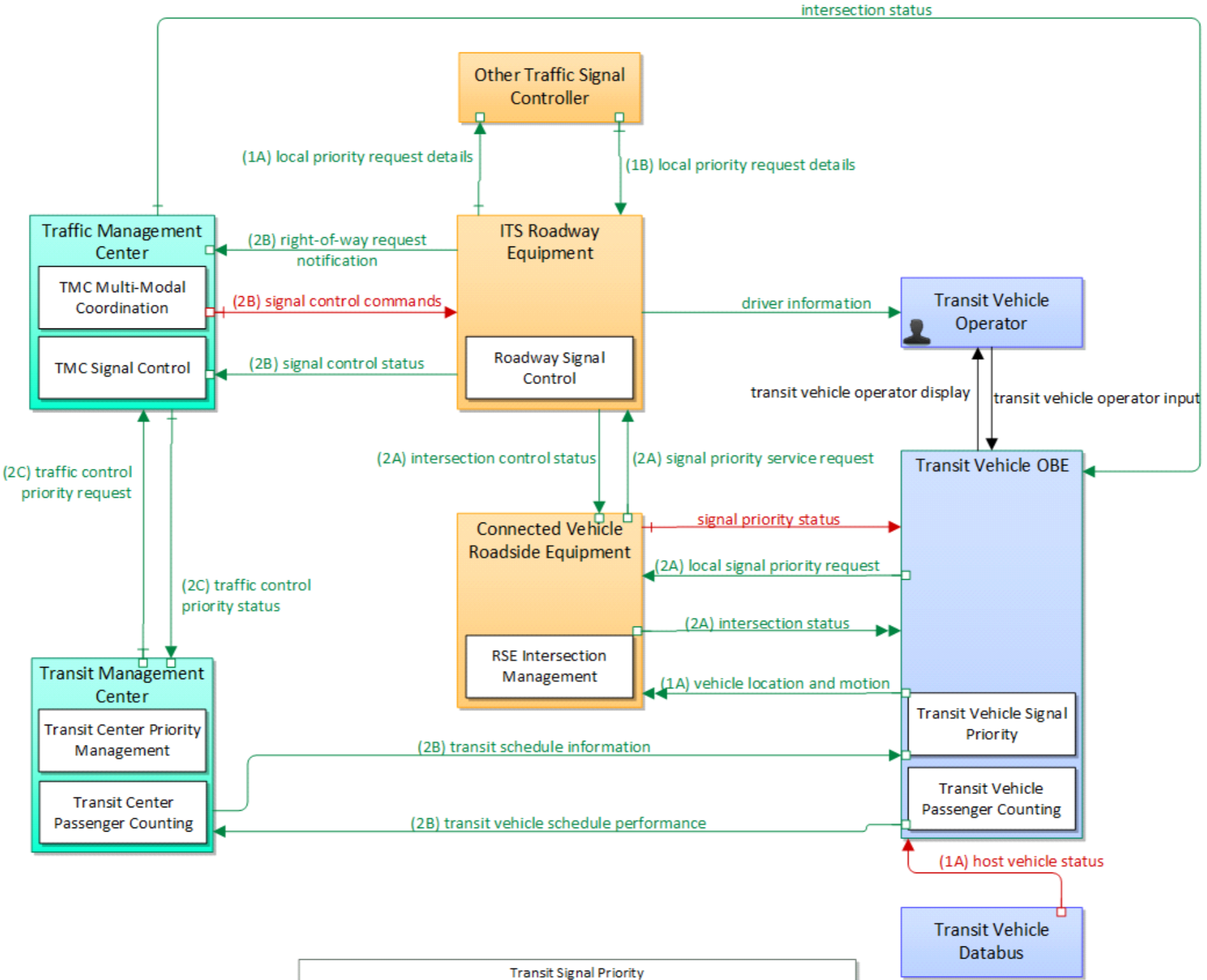
Service Package:	Spot Weather Impact Warning			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Transportation Information Center	Destination:	Traffic Management Center	Flow:	road network environmental situation data		
Flow Description:	Aggregated environmental situation data collected from vehicles and other sources for the road network. Aggregated information would include measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction c						
Solution	(None-Data) - NTCIP Messaging				Solution Issue Score:	15	
Issue	Issue Description			Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	road weather advisories		
Flow Description:	Segment-specific weather and road conditions including real-time advisories of deteriorating road and weather conditions, medium-term advisories for the next 2-12 hours, and long-term advisories more than 12 hours into the future. The advisories may incl						
Solution	TPEG2 - Mobile Internet (US)				Solution Issue Score:	15	
Issue	Issue Description			Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:	Spot Weather Impact Warning		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	666
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle environmental data	
Flow Description:	Data from vehicle safety and convenience systems that can be used to estimate environmental conditions, including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock brak					

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666			
Source:		Vehicle OBE		Destination:		Transportation Information Center		Flow:		vehicle environmental data			
Flow Description:		Data from vehicle safety and convenience systems that can be used to estimate environmental conditions, including measured air temperature, exterior light status, wiper status, sun sensor status, rain sensor status, traction control status, anti-lock brak											
Solution		US: SAE Other J2735 - Mobile Internet (US)								Solution Issue Score:		495	
		Issue		Issue Description						Assignment Notes		Severity	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary		High	

Service Package:		Spot Weather Impact Warning		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		666	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.			Medium	
Source:		Weather Service		Destination:		Traffic Management Center		Flow:		weather information	
Flow Description:		Accumulated forecasted and current weather data (e.g., temperature, pressure, wind speed, wind direction, humidity, precipitation, visibility, light conditions, etc.).									

The Transit Signal Priority application uses transit vehicle to infrastructure communications to allow a transit vehicle to request an priority at one or a series of intersection. The application includes feedback to the transit driver indicating whether the signal priority has been granted or not. This application can contribute to improved operating performance of the transit vehicles by reducing the time spent stopped at a red light.



Transit Signal Priority			
7	Physical	Sep 28, 2017	NAT

Service Package:	Transit Signal Priority			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment		Flow:	signal priority service request	
Flow Description:	A service request for vehicle priority issued to a traffic signal controller that results in green extension or other accommodation for the priority vehicle, within the current signal timing plan. The request includes the priority level, the desired time						
Solution	US: NTCIP Signal Priority - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		DDS: NTCIP Signal Priority - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Transit Vehicle OBE		Flow:		intersection status	
Flow Description:		Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi									

Service Package:	Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
Source:	Connected Vehicle Roadside Equipment	Destination:	Transit Vehicle OBE	Flow:	signal priority status	
Flow Description:	In response to a request for signal priority, this flow indicates the status of the priority or preemption request.					

Service Package:	Transit Signal Priority			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
Source:	ITS Roadway Equipment		Destination:	Connected Vehicle Roadside Equipment		Flow:	intersection control status	
Flow Description:	Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.							
Solution	US: NTCIP Traffic Signal - SNMPv3						Solution Issue Score:	39
	Issue	Issue Description				Assignment Notes		Severity
	Dialogs are not fully defined (medium)	The specific dialogs for exchanging this data have not been fully defined.				NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.	Medium	
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.	Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.	Medium		

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		ITS Roadway Equipment		Destination:		Other Traffic Signal Controller		Flow:		local priority request details	
Flow Description:		It contains details of the local priority requests that have been received from Other Vehicles.									

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		right-of-way request notification			
Flow Description:		Notice that a request has occurred for signal prioritization, signal preemption, pedestrian call, multi-modal crossing activation, or other source for right-of-way.											
Solution		US: NTCIP Signal Priority - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Signal Priority - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		DDS: NTCIP Signal Priority - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563		
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		signal control status		
Flow Description:		Operational and status data of traffic signal control equipment including operating condition and current indications.										
Solution		US: NTCIP Traffic Signal - SNMPv1							Solution Issue Score:		3	
Issue		Issue Description					Assignment Notes			Severity		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS							Solution Issue Score:		18	
Issue		Issue Description					Assignment Notes			Severity		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Traffic Signal - SNMPv3							Solution Issue Score:		39	
Issue		Issue Description					Assignment Notes			Severity		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Traffic Signal Controller		Destination:		ITS Roadway Equipment		Flow:		local priority request details	
Flow Description:		It contains details of the local priority requests that have been received from Other Vehicles.									

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control commands			
Flow Description:		Control of traffic signal controllers or field masters including clock synchronization.											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563			
Source:		Traffic Management Center		Destination:		Transit Management Center		Flow:		traffic control priority status			
Flow Description:		Status of signal priority request functions at the roadside (e.g. enabled or disabled).											
Solution		DDS: NTCIP Signal Priority - OMG DDS								Solution Issue Score:		480	
Issue		Issue Description						Assignment Notes			Severity		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary			High		

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	TPEG2 is not designed to be transported over NTCIP Messaging services.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	UBL is not typically paired with NTCIP messaging		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		US: NTCIP Signal Priority - NTCIP Messaging				Solution Issue Score:	495
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.			Medium	
Source:		Traffic Management Center		Destination:		Transit Vehicle OBE		Flow:		intersection status	
Flow Description:		Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi									

Service Package:	Transit Signal Priority			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
Source:	Transit Management Center		Destination:	Traffic Management Center		Flow:	traffic control priority request	
Flow Description:	Request for signal priority at one or more intersections along a particular route.							
	Solution	US: TCIP - NTCIP Messaging					Solution Issue Score:	15
	Issue	Issue Description				Assignment Notes		Severity
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563	
	Solution		DDS: TCIP -  OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563			
Source:		Transit Management Center		Destination:		Transit Vehicle OBE		Flow:		transit schedule information			
Flow Description:		Current and projected transit schedule information used to initialize the transit vehicle with a vehicle assignment, monitor schedule performance, and develop corrective actions on-board.											
	Solution		US: TCIP - Mobile Internet (US)							Solution Issue Score:		480	
	Issue		Issue Description						Assignment Notes			Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary			High		

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Transit Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		local signal priority request	
Flow Description:		Request from a vehicle to a signalized intersection for priority at that intersection. This flow also allows the vehicle to cancel a priority request (for example, when the vehicle clears the intersection).									

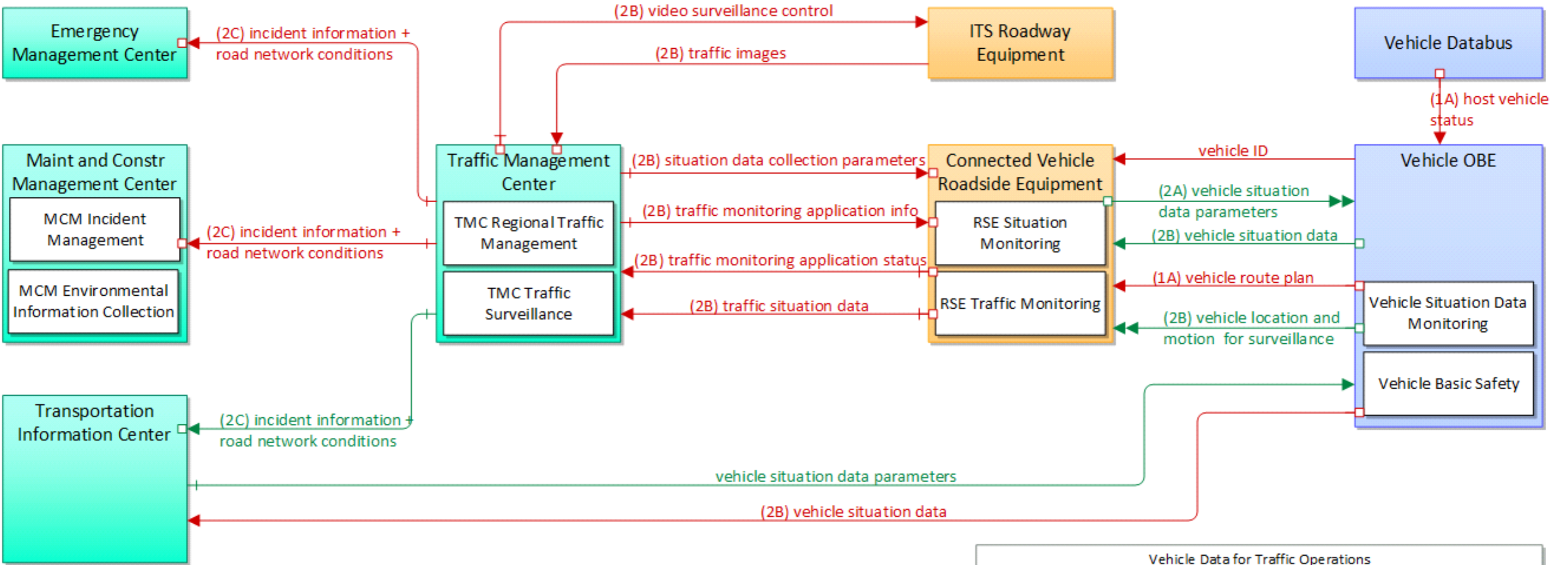
Service Package:	Transit Signal Priority	Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
Source:	Transit Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.				

Service Package:		Transit Signal Priority		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1563			
Source:		Transit Vehicle OBE		Destination:		Transit Management Center		Flow:		transit vehicle schedule performance			
Flow Description:		Estimated times of arrival and anticipated schedule deviations reported by a transit vehicle.											
	Solution		US: TCIP - Mobile Internet (US)							Solution Issue Score:		480	
	Issue		Issue Description						Assignment Notes			Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.									High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High		
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary			High		

Service Package:		Transit Signal Priority		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1563
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	TPEG2 is not designed to be transported over NTCIP Messaging services.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	UBL is not typically paired with NTCIP messaging		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

The Vehicle Data for Traffic Operations (VDTO) application uses probe data information obtained from vehicles in the network to support traffic operations, including incident detection and the implementation of localized operational strategies. The implantation of incident detection enables transportation agencies to determine the location of potential incidents so the agencies can respond more quickly to the incident and mitigate any negative impacts to the transportation network. Vehicle data that can be used to detect potential incidents include changes in vehicle speeds indicating the disruption of traffic flow, when a vehicle’s safety systems have been activated or deployed, or sudden vehicle turns or deceleration at a specific location (indicating a potential obstacle in the roadway). Operational strategies might include altering signal timing based on traffic flows or using vehicle data collected on the freeway mainline to employ speed harmonization or to optimize ramp metering rates.

Two approaches are shown. 1) Passive monitoring of BSMs (vehicle location and motion). This approach collects data from all connected vehicles. 2) Use of situation data snapshots to collect more comprehensive data from vehicles that opt in/are equipped to collect and provide snapshot data.



Vehicle Data for Traffic Operations			
8	Physical	Sep 21, 2017	NAT

Service Package:	Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	traffic monitoring application status	
Flow Description:	Traffic monitoring application status reported by the RSE. This includes current operational state and status of the RSE and a record of system operation.					

Service Package:	Vehicle Data for Traffic Operations			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center		Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.						
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
	Issue	Issue Description			Assignment Notes		Severity
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1146	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Vehicle OBE		Flow:		vehicle situation data parameters	
Flow Description:		A request for vehicle situation data that includes parameters used to control the data that is reported and the flow of data reported by the vehicle. This flow identifies the type of data/snapshots that are requested and reporting parameters such as snap									

Service Package:	Vehicle Data for Traffic Operations			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	traffic images
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.						
Solution	US: NTCIP CCTV - SNMPv1/TLS					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP CCTV - SNMPv3					Solution Issue Score:	36
Issue	Issue Description				Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: NTCIP CCTV - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1146	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		situation data collection parameters	
Flow Description:		The parameters that are used to control the flow of situation data from the RSE. This flow identifies the type of data/snapshots that are requested from passing vehicles and reporting parameters such as snapshot frequency, filtering criteria (data thres									

Service Package:	Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	traffic monitoring application info	
Flow Description:	Traffic monitoring application parameters and thresholds that control the filtering, aggregation, and range of measures that are collected, derived, and reported. This flow also supports remote control of the application so the application can be taken o					

Service Package:	Vehicle Data for Traffic Operations			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center		Destination:	Emergency Management Center		Flow:	incident information
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center	Destination:	Emergency Management Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1146		
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		video surveillance control		
Flow Description:		Information used to configure and control video surveillance systems.										
	Solution		US: NTCIP CCTV - SNMPv1/TLS						Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP CCTV - SNMPv3						Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: NTCIP CCTV - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High

Service Package:	Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center	Destination:	Maint and Constr Management Center	Flow:	incident information	
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Vehicle Data for Traffic Operations			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center		Destination:	Maint and Constr Management Center		Flow:	road network conditions
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Vehicle Data for Traffic Operations			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	incident information		
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Vehicle Data for Traffic Operations			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Traffic Management Center		Destination:	Transportation Information Center		Flow:	road network conditions
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1146			
Source:		Transportation Information Center		Destination:		Vehicle OBE		Flow:		vehicle situation data parameters			
Flow Description:		A request for vehicle situation data that includes parameters used to control the data that is reported and the flow of data reported by the vehicle. This flow identifies the type of data/snapshots that are requested and reporting parameters such as snap											
Solution		US: SAE Other J2735 - Mobile Internet (US)								Solution Issue Score:		495	
		Issue		Issue Description					Assignment Notes			Severity	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary			High	

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.	High
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium
Source:		Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle ID	
Flow Description:		It contains the ID of the vehicle, sent by the on-board electronics, to facilitate probe data collection and other activities. In some jurisdictions IDs are used for enforcement, reservations/booking, and floating car (probe/situation data collection) ap					

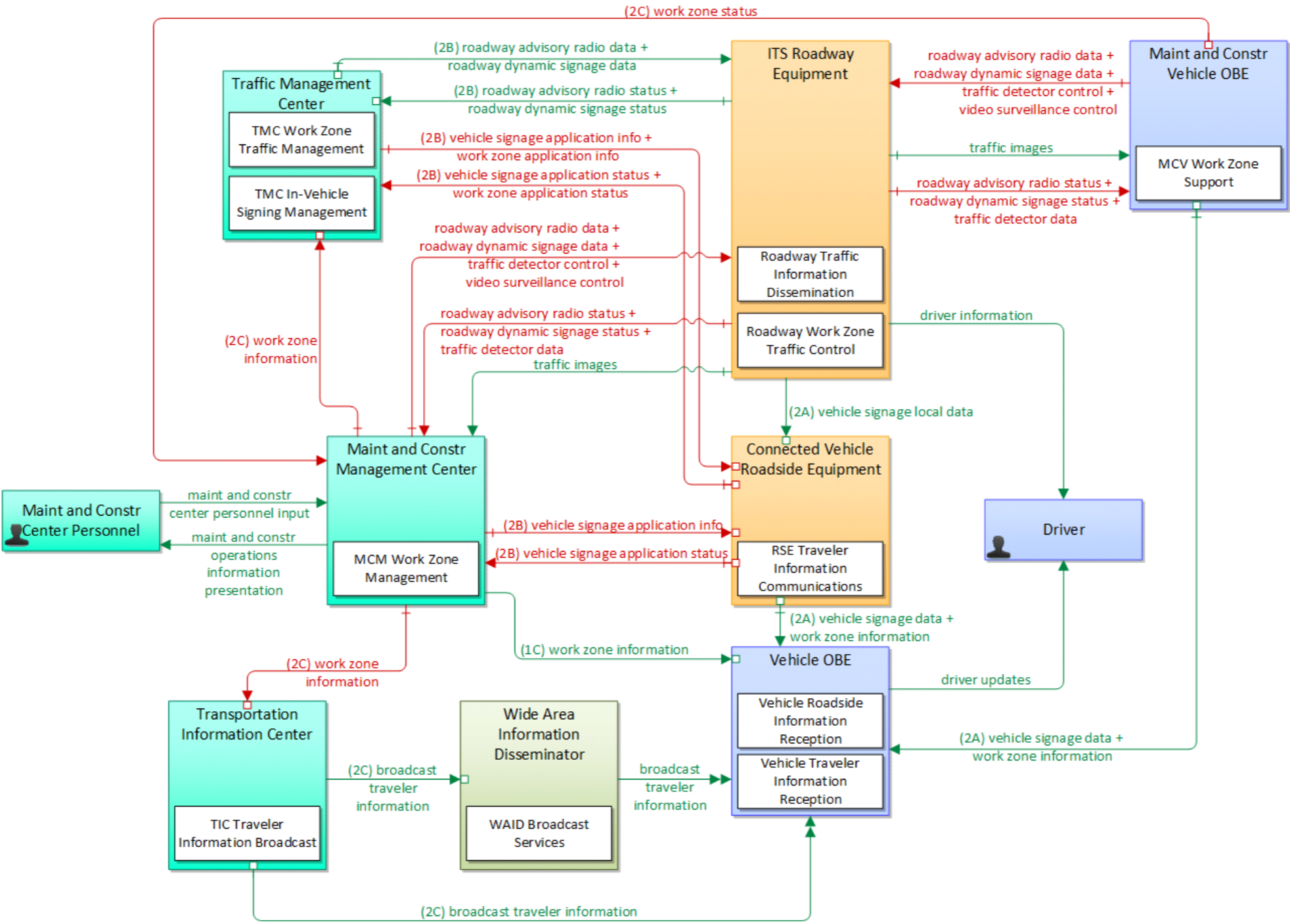
Service Package:	Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve					
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle route plan	
Flow Description:	It contains the route for the latest Vehicle Trip Plan that is being used to guide the Driver.					

Service Package:	Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle situation data	
Flow Description:	This flow represents vehicle snapshots that may be provided by the vehicle to support traffic and environmental conditions monitoring. Snapshots are collected by the vehicle for specific events (e.g., when a sensor exceeds a threshold) or periodically an					

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		1146			
Source:		Vehicle OBE		Destination:		Transportation Information Center		Flow:		vehicle situation data			
Flow Description:		This flow represents vehicle snapshots that may be provided by the vehicle to support traffic and environmental conditions monitoring. Snapshots are collected by the vehicle for specific events (e.g., when a sensor exceeds a threshold) or periodically an											
Solution		US: SAE Other J2735 - Mobile Internet (US)								Solution Issue Score:		495	
		Issue		Issue Description						Assignment Notes		Severity	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the exachnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High	
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary		High	

Service Package:		Vehicle Data for Traffic Operations		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	1146
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	TPEG2 is not designed to be transported over NTCIP Messaging services.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	UBL is not typically paired with NTCIP messaging		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	Application-level authentication not provided		Medium	
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	It is unclear what security is provided with this link		Medium	
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	SIRI does not currently provide application level authentication.		Medium	

The Warnings about Upcoming Work Zone (WUWZ) application provides information about the conditions that exist in a work zone to vehicles that are approaching the work zone. This application provides approaching vehicles with information about work zone activities that may result in unsafe conditions to the vehicle, such as obstructions in the vehicle’s travel lane, lane closures, lane shifts, speed reductions or vehicles entering/exiting the work zone.



Warnings about Upcoming Work Zone			
6	Physical	Sep 25, 2017	NAT

[illegible]

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342		
Source:		ITS Roadway Equipment		Destination:		Maint and Constr Management Center		Flow:		roadway dynamic signage status		
Flow Description:		Current operating status of dynamic message signs.										
	Solution		US: NTCIP Message Sign - SNMPv1/TLS						Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes		Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided		Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link		Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.		Medium	
	Solution		US: NTCIP Message Sign - SNMPv3						Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes		Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:

Warnings about Upcoming Work Zone

Deployment Timeframe:

Day 1

Best (minimum) Issue Score

342

Source:

ITS Roadway Equipment

Destination:

Maint and Constr Management Center

Flow:

traffic detector data

Flow Description:

Raw and/or processed traffic detector data which allows derivation of traffic flow variables (e.g., speed, volume, and density measures) and associated information (e.g., congestion, potential incidents). This flow includes the traffic data and the opera

Solution

US: NTCIP Transportation Sensors - SNMPv1/TLS

Solution Issue Score:

15

Issue

Issue Description

Assignment Notes

Severity

Security inadequate

The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.

Application-level authentication not provided

Medium

Security inadequate

The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.

It is unclear what security is provided with this link

Medium

Security inadequate

The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.

SIRI does not currently provide application level authentication.

Medium

Solution

US: NTCIP Transportation Sensors - SNMPv3

Solution Issue Score:

36

Issue

Issue Description

Assignment Notes

Severity

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1201 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1202 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1203 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1204 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1205 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1207 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1209 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1210 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1211 data needs to be upgraded to SNMPv3.

Medium

Update data to SNMPv3

Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.

NTCIP 1213 data needs to be upgraded to SNMPv3.

Medium

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	ITS Roadway Equipment		Destination:	Maint and Constr Management Center	Flow:	traffic images
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.					
Solution	US: NTCIP CCTV - SNMPv1/TLS				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP CCTV - SNMPv3				Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
		Solution	DDS: NTCIP CCTV - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High			
Source:		ITS Roadway Equipment		Destination:		Maint and Constr Vehicle OBE		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign - Mobile SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:	Warnings about Upcoming Work Zone			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	ITS Roadway Equipment	Destination:	Maint and Constr Vehicle OBE	Flow:	traffic detector data		
Flow Description:	Raw and/or processed traffic detector data which allows derivation of traffic flow variables (e.g., speed, volume, and density measures) and associated information (e.g., congestion, potential incidents). This flow includes the traffic data and the opera						
Source:	ITS Roadway Equipment	Destination:	Maint and Constr Vehicle OBE	Flow:	traffic images		
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.						

Service Package:	Warnings about Upcoming Work Zone			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	roadway advisory radio status	
Flow Description:	Current operating status of highway advisory radios.							
Solution	(None-Data) - SNMPv1/TLS					Solution Issue Score:	15	
Issue	Issue Description				Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Message Sign - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High		
Source:		Maint and Constr Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle signage application info	
Flow Description:		In-vehicle signing application configuration data and messaging parameters. This flow provides a list of regulatory, warning, and information messages to be displayed and parameters that support scheduling and prioritizing messages to be issued to passin									

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Maint and Constr Management Center	Destination:	ITS Roadway Equipment		Flow:	roadway advisory radio data
Flow Description:	Information used to initialize, configure, and control roadside highway advisory radio. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands					
Solution	(None-Data) - SNMPv1/TLS				Solution Issue Score:	15
	Issue	Issue Description		Assignment Notes		Severity
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.		Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.		It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.		SIRI does not currently provide application level authentication.		Medium

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
Source:		Maint and Constr Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Message Sign - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
Source:		Maint and Constr Management Center		Destination:		ITS Roadway Equipment		Flow:		traffic detector control			
Flow Description:		Information used to configure and control traffic sensor systems.											
Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
Source:		Maint and Constr Management Center		Destination:		ITS Roadway Equipment		Flow:		video surveillance control			
Flow Description:		Information used to configure and control video surveillance systems.											
Solution		US: NTCIP CCTV - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP CCTV - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP CCTV - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Maint and Constr Management Center	Destination:	Traffic Management Center	Flow:	work zone information	
Flow Description:	Summary of maintenance and construction work zone activities affecting the road network including the nature of the maintenance or construction activity, location, impact to the roadway, expected time(s) and duration of impact, anticipated delays, alterna					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
Solution		DDS: TMDD - OMG DDS					Solution Issue Score:	480
Issue		Issue Description				Assignment Notes		Severity
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Maint and Constr Management Center	Destination:	Transportation Information Center	Flow:	work zone information	
Flow Description:	Summary of maintenance and construction work zone activities affecting the road network including the nature of the maintenance or construction activity, location, impact to the roadway, expected time(s) and duration of impact, anticipated delays, alterna					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
Solution		DDS: TMDD - OMG DDS					Solution Issue Score:	480
Issue		Issue Description				Assignment Notes		Severity
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High			
	Source:		Maint and Constr Management Center		Destination:		Vehicle OBE		Flow:		work zone information		
	Flow Description:		Summary of maintenance and construction work zone activities affecting the road network including the nature of the maintenance or construction activity, location, impact to the roadway, expected time(s) and duration of impact, anticipated delays, alterna										
	Solution		TPEG2 - Mobile Internet (US)							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
Source:		Maint and Constr Vehicle OBE		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign - Mobile SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		
Source:		Maint and Constr Vehicle OBE		Destination:		ITS Roadway Equipment		Flow:		traffic detector control			
Flow Description:		Information used to configure and control traffic sensor systems.											

Service Package:	Warnings about Upcoming Work Zone			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Maint and Constr Vehicle OBE	Destination:	ITS Roadway Equipment	Flow:	video surveillance control		
Flow Description:	Information used to configure and control video surveillance systems.						
Source:	Maint and Constr Vehicle OBE	Destination:	Maint and Constr Management Center	Flow:	work zone status		
Flow Description:	Current work zone status including current location (and future locations for moving work zones), impact to the roadway, required lane shifts, expected time(s) and duration of impact, anticipated delays, alternate routes, and suggested speed limits.						

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Maint and Constr Vehicle OBE	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					
Source:	Maint and Constr Vehicle OBE	Destination:	Vehicle OBE	Flow:	work zone information	
Flow Description:	Summary of maintenance and construction work zone activities affecting the road network including the nature of the maintenance or construction activity, location, impact to the roadway, expected time(s) and duration of impact, anticipated delays, alterna					

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342	
Source:		Traffic Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle signage application info	
Flow Description:		In-vehicle signing application configuration data and messaging parameters. This flow provides a list of regulatory, warning, and information messages to be displayed and parameters that support scheduling and prioritizing messages to be issued to passin									
Source:		Connected Vehicle Roadside Equipment		Destination:		Maint and Constr Management Center		Flow:		vehicle signage application status	
Flow Description:		In-vehicle signing application status reported by the RSE. This includes current operational state and status of the RSE and a log of messages sent to passing vehicles.									

Service Package:	Warnings about Upcoming Work Zone			Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	vehicle signage application status		
Flow Description:	In-vehicle signing application status reported by the RSE. This includes current operational state and status of the RSE and a log of messages sent to passing vehicles.						
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	work zone application status		
Flow Description:	Work zone application status reported by the RSE. This includes current operational state and status of the RSE.						

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	work zone information	
Flow Description:	Summary of maintenance and construction work zone activities affecting the road network including the nature of the maintenance or construction activity, location, impact to the roadway, expected time(s) and duration of impact, anticipated delays, alterna					

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
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Source:

Traffic Management Center

Destination:

Connected Vehicle Roadside Equipment

Flow:

work zone application info

Flow Description:

Work zone application configuration data and messaging parameters. This flow includes a description of work zones, impact of the workzone on travel, alternate routes and regulatory changes such as revised speed limits inside the work zone. May include a m

Source:

Traffic Management Center

Destination:

ITS Roadway Equipment

Flow:

roadway advisory radio data

Flow Description:

Information used to initialize, configure, and control roadside highway advisory radio. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands

Solution

(None-Data) - SNMPv1/TLS

Solution Issue Score:

15

Issue	Issue Description	Assignment Notes	Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	SIRI does not currently provide application level authentication.	Medium

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Message Sign - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	broadcast traveler information	
Flow Description:	General traveler information that contains traffic and road conditions, link travel times, incidents, advisories, restrictions, transit service information, weather information, parking information, and other related traveler information.					
Solution	TMC - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	
Solution	TPEG2 - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		US: SAE Other J2735 - Wide Area Broadcast (Upper)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

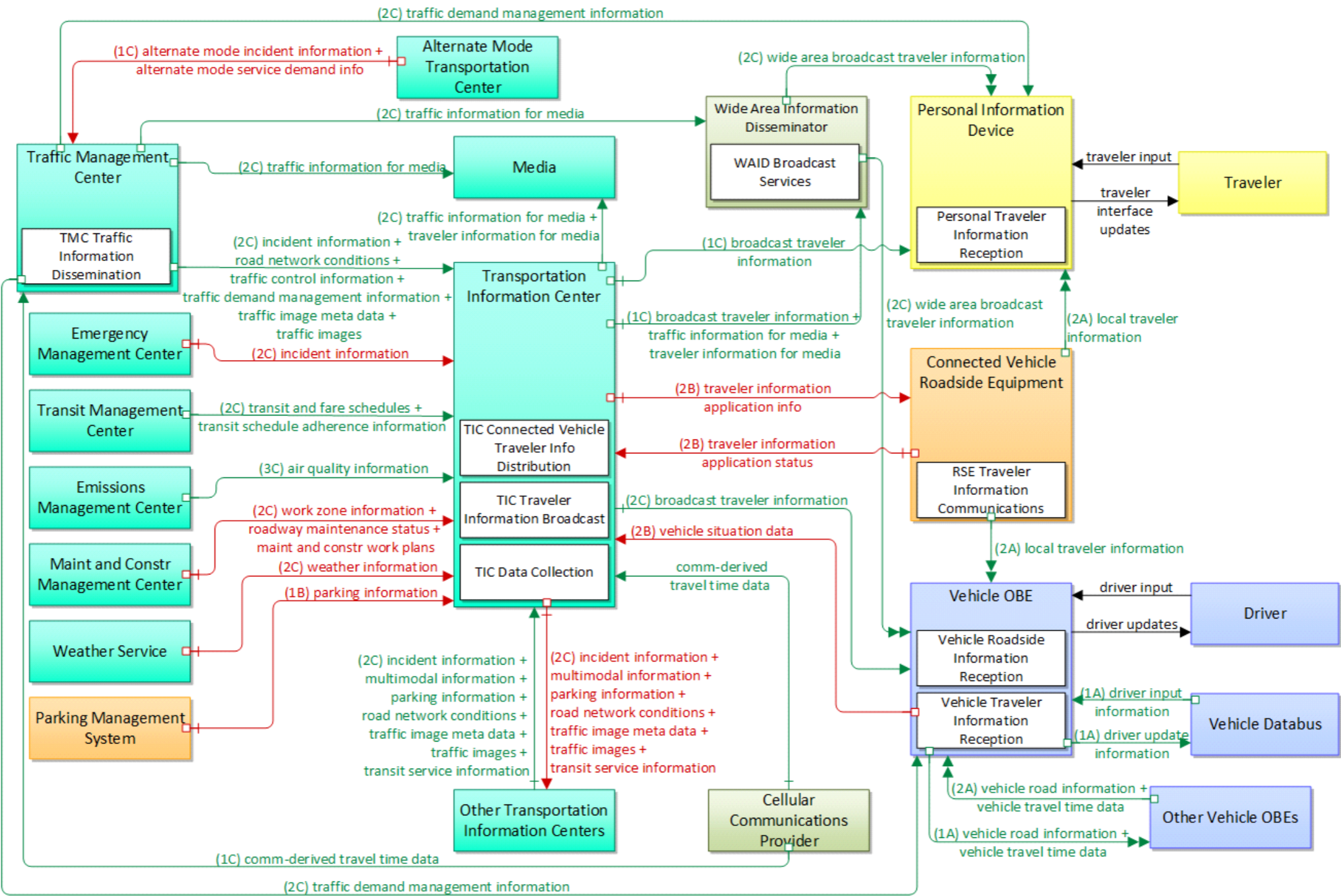
Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:		Day 1		Best (minimum) Issue Score		342			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High			
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High			
	Source:		Transportation Information Center		Destination:		Wide Area Information Disseminator		Flow:		broadcast traveler information		
	Flow Description:		General traveler information that contains traffic and road conditions, link travel times, incidents, advisories, restrictions, transit service information, weather information, parking information, and other related traveler information.										
	Solution		TMC - Internet (US)							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes		Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided		Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link		Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.		Medium		

Service Package:	Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
Source:	Wide Area Information Disseminator	Destination:	Vehicle OBE	Flow:	broadcast traveler information	
Flow Description:	General traveler information that contains traffic and road conditions, link travel times, incidents, advisories, restrictions, transit service information, weather information, parking information, and other related traveler information.					
Solution	TMC - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	
Solution	TPEG2 - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342	
	Solution		US: SAE Other J2735 - Wide Area Broadcast (Upper)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High

Service Package:		Warnings about Upcoming Work Zone		Deployment Timeframe:	Day 1	Best (minimum) Issue Score	342
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		UBL is not typically paired with NTCIP messaging		High

The Advanced Traveler Information Systems applications provide for the collection, aggregation, and dissemination of a wide range of transportation information. The collection of information includes traffic, transit, road weather, workzone, and connected vehicle related data. All the sources of data are aggregated into data environments that can be used to drive data portals allowing dissemination of the entire spectrum of transportation information to travelers via mobile devices, in vehicle displays, web portals, 511 systems, and roadside signage.



Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Alternate Mode Transportation Center	Destination:	Traffic Management Center	Flow:	alternate mode incident information		
Flow Description:	Details of accidents and other service disruptions that have occurred in an alternative mode. This information supports assessment of their impact upon the road network.						
Source:	Alternate Mode Transportation Center	Destination:	Traffic Management Center	Flow:	alternate mode service demand info		
Flow Description:	It contains information about ferry and rail services that are relevant to travellers using the road network.						

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Cellular Communications Provider	Destination:	Traffic Management Center	Flow:	comm-derived travel time data		
Flow Description:	It contains journey time data (journey times between defined locations) that has been collected by a cellular communications provider from its mobile communication units.						

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Connected Vehicle Roadside Equipment	Destination:	Personal Information Device	Flow:	local traveler information		
Flow Description:	Traveler information including traffic, road, and weather conditions for a particular locality. This flow includes the location-specific traveler information and time effectivity of the information.						
Source:	Connected Vehicle Roadside Equipment	Destination:	Transportation Information Center	Flow:	traveler information application status		
Flow Description:	Application status reported by the RSE. This includes current operational state and status of the RSE and a record of traveler information distribution.						

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	local traveler information	
Flow Description:	Traveler information including traffic, road, and weather conditions for a particular locality. This flow includes the location-specific traveler information and time effectivity of the information.					

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Emergency Management Center	Destination:	Transportation Information Center	Flow:	incident information		
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Advanced Traveler Information Systems				Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Emissions Management Center		Destination:		Transportation Information Center		Flow:		air quality information					
Flow Description:		Aggregated region-wide measured air quality data and possible pollution incident information.													
Solution		US: TMDD - NTCIP Messaging										Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium			

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Financial Center		Destination:		Transportation Information Center		Flow:		transaction status	
Flow Description:		Response to transaction request. Normally dealing with a request for payment.									

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Fleet and Freight Management Center		Destination:		Transportation Information Center		Flow:		route request			
Flow Description:		Request for a tailored route based on given constraints.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Maint and Constr Management Center		Destination:		Transportation Information Center		Flow:		maint and constr work plans			
Flow Description:		Future construction and maintenance work schedules and activities including anticipated closures with anticipated impact to the roadway, alternate routes, anticipated delays, closure times, and durations.											
Solution		US: TMDD - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems			Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095				
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High				
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols			High				
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High				
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High				
		Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High				
Source:		Maint and Constr Management Center			Destination:		Transportation Information Center			Flow:		roadway maintenance status			
Flow Description:		Summary of maintenance fleet operations affecting the road network. This includes the status of winter maintenance (snow plow schedule and current status).													
Solution		(None-Data) - NTCIP Messaging										Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium			

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Maint and Constr Management Center	Destination:	Transportation Information Center	Flow:	work zone information	
Flow Description:	Summary of maintenance and construction work zone activities affecting the road network including the nature of the maintenance or construction activity, location, impact to the roadway, expected time(s) and duration of impact, anticipated delays, alterna					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Transportation Information Centers	Destination:	Transportation Information Center	Flow:	incident information		
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue	Issue Description				Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging	High	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Transportation Information Centers	Destination:	Transportation Information Center	Flow:	multimodal information		
Flow Description:	Schedule information for alternate mode transportation providers such as train, ferry, air and bus.						
Solution	US: ATIS - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS -  OMG DDS					Solution Issue Score:	480
	Issue		Issue Description				Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Transportation Information Centers	Destination:	Transportation Information Center	Flow:	parking information		
Flow Description:	General parking information and status, including current parking availability.						
Solution	US: ATIS - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Transportation Information Centers	Destination:	Transportation Information Center	Flow:	road network conditions		
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Other Transportation Information Centers		Destination:		Transportation Information Center		Flow:		traffic image meta data			
Flow Description:		Meta data that describes traffic images. Traffic images (video) are in another flow.											
Solution		US: TMDD - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Transportation Information Centers	Destination:	Transportation Information Center	Flow:	traffic images	
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Transportation Information Centers	Destination:	Transportation Information Center	Flow:	transit service information		
Flow Description:	Transit service information including routes, schedules, and fare information as well as dynamic transit schedule adherence and transit vehicle location information.						
Solution	US: TCIP - NTCIP Messaging				Solution Issue Score:	15	
Issue	Issue Description			Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TCIP -  OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems				Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data				High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols				High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.				High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.				High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.				High		
Source:		Other Vehicle OBEs			Destination:		Vehicle OBE		Flow:		vehicle road information			
Flow Description:		Road geometry, layout, and traffic regulation information that is shared with and between vehicles.												

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Other Vehicle OBEs	Destination:	Vehicle OBE	Flow:	vehicle travel time data	
Flow Description:	Current and predicted travel times for each segment in the road network that are shared peer to peer between navigation devices.					

Service Package:		Advanced Traveler Information Systems				Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Parking Management System		Destination:		Transportation Information Center		Flow:		parking information					
Flow Description:		General parking information and status, including current parking availability.													
Solution		US: ATIS - NTCIP Messaging										Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium			
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium			

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Payment Device		Destination:		Personal Information Device		Flow:		payment	
Flow Description:		Payment of some kind (e.g., toll, parking, fare) by traveler which, in most cases, can be related to a credit account.									

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Payment Device	Destination:	Vehicle OBE	Flow:	payment	
Flow Description:	Payment of some kind (e.g., toll, parking, fare) by traveler which, in most cases, can be related to a credit account.					
Source:	Personal Information Device	Destination:	Payment Device	Flow:	request for payment	
Flow Description:	Request to deduct cost of service from user's payment account.					

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Personal Information Device	Destination:	Social Media	Flow:	traveler request		
Flow Description:	A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or						
Source:	Personal Information Device	Destination:	Social Media	Flow:	traveler sourced updates		
Flow Description:	Traveler posts on traffic and road conditions, transit services, traveler services, shelter information and other real-time crowd-sourced data that may be shared with other travelers.						

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Personal Information Device	Destination:	Transportation Information Center	Flow:	traveler request		
Flow Description:	A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or						
Source:	Personal Information Device	Destination:	Transportation Information Center	Flow:	trip confirmation		
Flow Description:	Acknowledgement by the driver/traveler of acceptance of a trip plan with associated personal and payment information required to confirm reservations. Conversely, this flow may also reject the proposed trip plan. Confirmations include the selected route						

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Personal Information Device	Destination:	Transportation Information Center	Flow:	trip request		
Flow Description:	Request for trip planning services that identifies the trip origin, destination(s), timing, preferences, and constraints. The request may also include the requestor's location or a request for transit and parking reservations and ridesharing options asso						
Source:	Social Media	Destination:	Personal Information Device	Flow:	interactive traveler information		
Flow Description:	Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat						

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Social Media	Destination:	Transportation Information Center	Flow:	traveler sourced updates	
Flow Description:	Traveler posts on traffic and road conditions, transit services, traveler services, shelter information and other real-time crowd-sourced data that may be shared with other travelers.					

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Media	Flow:	traffic information for media	
Flow Description:	Report of traffic conditions including traffic incident reports and traffic images for public dissemination. The reports may also include information on diversions and alternate routes, closures, and special traffic restrictions in effect.					
Solution	US: ATIS - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS -  OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Personal Information Device		Flow:		traffic demand management information	
Flow Description:		It contains a representation of information that is to be output as part of the implementation of a demand management strategy. In addition to the information, the destination of the output (Drivers and/or Travellers) will also be specified.									

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	incident information		
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	traffic control information	
Flow Description:	Represents the flow of traffic control and status information between centers. This is reporting only, not actual control. This specifically includes the current state of any demand management strategies that have been implemented.					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Transportation Information Center		Flow:		traffic demand management information	
Flow Description:		It contains a representation of information that is to be output as part of the implementation of a demand management strategy. In addition to the information, the destination of the output (Drivers and/or Travellers) will also be specified.									

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	traffic image meta data	
Flow Description:	Meta data that describes traffic images. Traffic images (video) are in another flow.					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Transportation Information Center	Flow:	traffic images	
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Traffic Management Center		Destination:		Vehicle OBE		Flow:		traffic demand management information	
Flow Description:		It contains a representation of information that is to be output as part of the implementation of a demand management strategy. In addition to the information, the destination of the output (Drivers and/or Travellers) will also be specified.									

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Traffic Management Center	Destination:	Wide Area Information Disseminator	Flow:	traffic information for media	
Flow Description:	Report of traffic conditions including traffic incident reports and traffic images for public dissemination. The reports may also include information on diversions and alternate routes, closures, and special traffic restrictions in effect.					

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transit Management Center	Destination:	Transportation Information Center	Flow:	transit and fare schedules	
Flow Description:	Transit service information including routes, schedules, and fare information. This also includes on-demand service information.					
Solution	US: TCIP - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TCIP -  OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
Source:	Transit Management Center		Destination:	Transportation Information Center		Flow:	transit schedule adherence information	
Flow Description:	Dynamic transit schedule adherence and transit vehicle location information.							
Solution	US: TCIP - NTCIP Messaging					Solution Issue Score:	15	
Issue	Issue Description				Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution	DDS: TCIP -  OMG DDS					Solution Issue Score:	480
	Issue	Issue Description				Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High

Service Package:		Advanced Traveler Information Systems			Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High		
Source:		Transportation Information Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		traveler information application info		
Flow Description:		Traveler information and associated parameters, filters, and thresholds that control the RSE's distribution of the traveler information to passing vehicles. This flow also supports remote control of the application so the application can be taken offline										

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Financial Center	Flow:	payment request	
Flow Description:	Request for payment from financial institution or related financial service requests (e.g., balance inquiry)					

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Fleet and Freight Management Center	Flow:	incident information		
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
		Solution	DDS: TMDD - OMG DDS				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Fleet and Freight Management Center	Flow:	road network conditions	
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Fleet and Freight Management Center	Flow:	route plan		
Flow Description:	Tailored route provided by ISP in response to a specific request.						
Solution	US: ATIS - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Media	Flow:	traffic information for media	
Flow Description:	Report of traffic conditions including traffic incident reports and traffic images for public dissemination. The reports may also include information on diversions and alternate routes, closures, and special traffic restrictions in effect.					
Solution	US: ATIS - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS -  OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Transportation Information Center		Destination:		Media		Flow:		traveler information for media			
Flow Description:		General traveler information regarding incidents, unusual traffic conditions, transit issues, or other advisory information that has been desensitized and provided to the media.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers	Flow:	incident information	
Flow Description:	Notification of existence of incident and expected severity, location, time and nature of incident. As additional information is gathered and the incident evolves, updated incident information is provided. Incidents include any event that impacts transp					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers	Flow:	multimodal information		
Flow Description:	Schedule information for alternate mode transportation providers such as train, ferry, air and bus.						
Solution	US: ATIS - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers		Flow:	parking information	
Flow Description:	General parking information and status, including current parking availability.						
Solution	US: ATIS - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution	DDS: ATIS - OMG DDS						Solution Issue Score:	480
	Issue	Issue Description					Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.							High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary	High	
Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					TPEG2 is not designed to be transported over NTCIP Messaging services.	High		
Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					UBL is not typically paired with NTCIP messaging	High		

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers		Flow:	road network conditions
Flow Description:	Current and forecasted traffic information, road and weather conditions, and other road network status. Either raw data, processed data, or some combination of both may be provided by this flow. Information on diversions and alternate routes, closures,					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers		Flow:	traffic image meta data	
Flow Description:	Meta data that describes traffic images. Traffic images (video) are in another flow.						
Solution	US: TMDD - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers	Flow:	traffic images	
Flow Description:	High fidelity, real-time traffic images suitable for surveillance monitoring by the operator or for use in machine vision applications. This flow includes the images only. Meta data is that describes the images is contained in another flow.					
Solution	US: TMDD - NTCIP Messaging				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TMDD - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Other Transportation Information Centers	Flow:	transit service information		
Flow Description:	Transit service information including routes, schedules, and fare information as well as dynamic transit schedule adherence and transit vehicle location information.						
Solution	US: TCIP - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		DDS: TCIP - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Personal Information Device	Flow:	broadcast traveler information	
Flow Description:	General traveler information that contains traffic and road conditions, link travel times, incidents, advisories, restrictions, transit service information, weather information, parking information, and other related traveler information.					
Solution	TMC - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	
Solution	TPEG2 - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
		Solution	US: SAE Other J2735 - Wide Area Broadcast (Upper)				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Transportation Information Center		Destination:		Personal Information Device		Flow:		interactive traveler information	
Flow Description:		Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat									

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Personal Information Device	Flow:	trip plan		
Flow Description:	A travel itinerary identifying a route and associated traveler information and instructions identifying recommended modes and transfer information, ride sharing options, and transit and parking reservation information. This flow also includes intermediat						
Source:	Transportation Information Center	Destination:	Social Media	Flow:	social media presence		
Flow Description:	Each social media platform offers its own tools and API that allow integration of web content into a social media experience. This interface establishes a social media presence for traveler information sites, providing current traveler information to sub						

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	broadcast traveler information	
Flow Description:	General traveler information that contains traffic and road conditions, link travel times, incidents, advisories, restrictions, transit service information, weather information, parking information, and other related traveler information.					
Solution	TMC - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	
Solution	TPEG2 - Wide Area Broadcast (Upper)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes	Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link	Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.	Medium	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		US: SAE Other J2735 - Wide Area Broadcast (Upper)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Transportation Information Center		Destination:		Vehicle OBE		Flow:		interactive traveler information	
Flow Description:		Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat									

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	trip plan	
Flow Description:	A travel itinerary identifying a route and associated traveler information and instructions identifying recommended modes and transfer information, ride sharing options, and transit and parking reservation information. This flow also includes intermediat					
Source:	Transportation Information Center	Destination:	Wide Area Information Disseminator	Flow:	broadcast traveler information	
Flow Description:	General traveler information that contains traffic and road conditions, link travel times, incidents, advisories, restrictions, transit service information, weather information, parking information, and other related traveler information.					
Solution	TMC - Internet (US)				Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Transportation Information Center	Destination:	Wide Area Information Disseminator	Flow:	traffic information for media		
Flow Description:	Report of traffic conditions including traffic incident reports and traffic images for public dissemination. The reports may also include information on diversions and alternate routes, closures, and special traffic restrictions in effect.						
Source:	Transportation Information Center	Destination:	Wide Area Information Disseminator	Flow:	traveler information for media		
Flow Description:	General traveler information regarding incidents, unusual traffic conditions, transit issues, or other advisory information that has been desensitized and provided to the media.						

Service Package:	Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle road information	
Flow Description:	Road geometry, layout, and traffic regulation information that is shared with and between vehicles.					
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle travel time data	
Flow Description:	Current and predicted travel times for each segment in the road network that are shared peer to peer between navigation devices.					

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Vehicle OBE	Destination:	Payment Device	Flow:	request for payment		
Flow Description:	Request to deduct cost of service from user's payment account.						
Source:	Vehicle OBE	Destination:	Transportation Information Center	Flow:	traveler request		
Flow Description:	A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or						

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Vehicle OBE	Destination:	Transportation Information Center	Flow:	trip confirmation		
Flow Description:	Acknowledgement by the driver/traveler of acceptance of a trip plan with associated personal and payment information required to confirm reservations. Conversely, this flow may also reject the proposed trip plan. Confirmations include the selected route						
Source:	Vehicle OBE	Destination:	Transportation Information Center	Flow:	trip request		
Flow Description:	Request for trip planning services that identifies the trip origin, destination(s), timing, preferences, and constraints. The request may also include the requestor's location or a request for transit and parking reservations and ridesharing options asso						

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095			
Source:		Vehicle OBE		Destination:		Transportation Information Center		Flow:		vehicle situation data			
Flow Description:		This flow represents vehicle snapshots that may be provided by the vehicle to support traffic and environmental conditions monitoring. Snapshots are collected by the vehicle for specific events (e.g., when a sensor exceeds a threshold) or periodically an											
Solution		US: SAE Other J2735 - Mobile Internet (US)								Solution Issue Score:		495	
Issue		Issue Description						Assignment Notes				Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.										High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary				High	

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link			Medium	
			Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.			Medium	
Source:		Weather Service		Destination:		Transportation Information Center		Flow:		weather information	
Flow Description:		Accumulated forecasted and current weather data (e.g., temperature, pressure, wind speed, wind direction, humidity, precipitation, visibility, light conditions, etc.).									

Service Package:		Advanced Traveler Information Systems			Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		1095		
Source:		Wide Area Information Disseminator		Destination:		Personal Information Device		Flow:		wide area broadcast traveler information			
Flow Description:		Traveler information relevant over a wide area, suitable for broadcast distribution. Typical content would include major incidents and road closures, evacuations, and disaster notifications.											
Solution		TMC - Wide Area Broadcast (Upper)								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		TPEG2 - Wide Area Broadcast (Upper)								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		US: SAE Other J2735 - Wide Area Broadcast (Upper)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

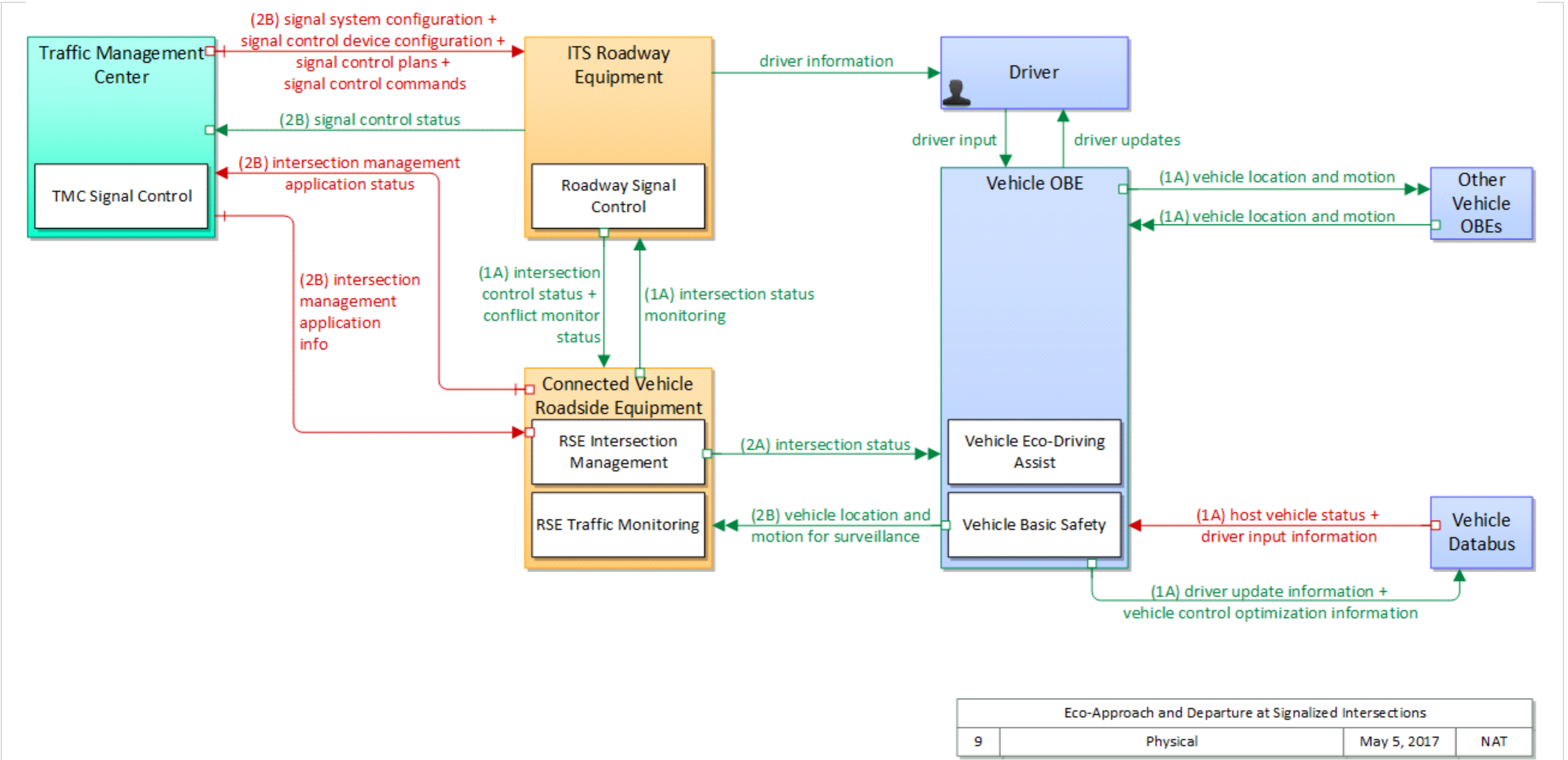
Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:	Advanced Traveler Information Systems			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
Source:	Wide Area Information Disseminator	Destination:	Vehicle OBE	Flow:	wide area broadcast traveler information		
Flow Description:	Traveler information relevant over a wide area, suitable for broadcast distribution. Typical content would include major incidents and road closures, evacuations, and disaster notifications.						
	Solution	TMC - Wide Area Broadcast (Upper)				Solution Issue Score:	15
	Issue	Issue Description			Assignment Notes		Severity
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium
	Solution	TPEG2 - Wide Area Broadcast (Upper)				Solution Issue Score:	15
	Issue	Issue Description			Assignment Notes		Severity
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
	Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095	
	Solution		US: SAE Other J2735 - Wide Area Broadcast (Upper)				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High

Service Package:		Advanced Traveler Information Systems		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	1095
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The Electric Charging Hot Spot Notification was designed for DSRC		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High	

The Eco-Approach and Departure at Signalized Intersections application uses wireless data communications sent from a roadside equipment (RSE) unit to connected vehicles to encourage “green” approaches to and departures from signalized intersections. The application, located in a vehicle, collects intersection geometry information and signal phase movement information using V2I communications and data from nearby vehicles using V2V communications. Upon receiving this information, the application performs calculations to provide speed advice to the driver of the vehicle allowing the driver to adapt the vehicle’s speed to pass the next traffic signal on green or to decelerate to a stop in the most eco-friendly manner. The application also considers a vehicle’s acceleration as it departs from a signalized intersection. Finally, the application may perform engine adjustments that provide increased fuel efficiency.



Service Package:	Eco-Approach and Departure at Signalized Intersections			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	intersection status monitoring		
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow represents monitoring of communications by a receiver at the intersection to support monitoring for conflicts between actual signal states and RSE communica						
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	intersection management application status		
Flow Description:	Infrastructure application status reported by the RSE. This includes current operational state and status of the RSE and a log of operations.						

Service Package:	Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection status	
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi					

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		conflict monitor status			
Flow Description:		A control flow that supports failsafe operation in the event that a conflict is detected that requires the RSE to enter a failsafe operating mode. Analogous to a traffic signal conflict monitor, this flow is issued when differences are detected between in											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection control status			
Flow Description:		Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.											
	Solution		US: NTCIP Traffic Signal -  SNMPv3							Solution Issue Score:		39	
	Issue		Issue Description					Assignment Notes			Severity		
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		signal control status			
Flow Description:		Operational and status data of traffic signal control equipment including operating condition and current indications.											
	Solution		US: NTCIP Traffic Signal - SNMPv1							Solution Issue Score:		3	
	Issue		Issue Description					Assignment Notes			Severity		
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
	Solution		US: NTCIP Traffic Signal - SNMPv1/TLS							Solution Issue Score:		18	
	Issue		Issue Description					Assignment Notes			Severity		
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Traffic Signal - SNMPv3							Solution Issue Score:		39	
	Issue		Issue Description					Assignment Notes			Severity		
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Vehicle OBEs		Destination:		Vehicle OBE		Flow:		vehicle location and motion	
Flow Description:		Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.									

Service Package:	Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	intersection management application info	
Flow Description:	Intersection and device configuration data and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.					

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control commands			
Flow Description:		Control of traffic signal controllers or field masters including clock synchronization.											
	Solution		US: NTCIP Signal System Masters - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Signal System Masters - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control device configuration			
Flow Description:		Data used to configure traffic signal control equipment including local controllers and system masters.											
	Solution		US: NTCIP Signal System Masters - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Signal System Masters - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control plans			
Flow Description:		Traffic signal timing parameters including minimum green time and interval durations for basic operation and cycle length, splits, offset, phase sequence, etc. for coordinated systems.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
		Solution	DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
		Issue	Issue Description			Assignment Notes		Severity
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

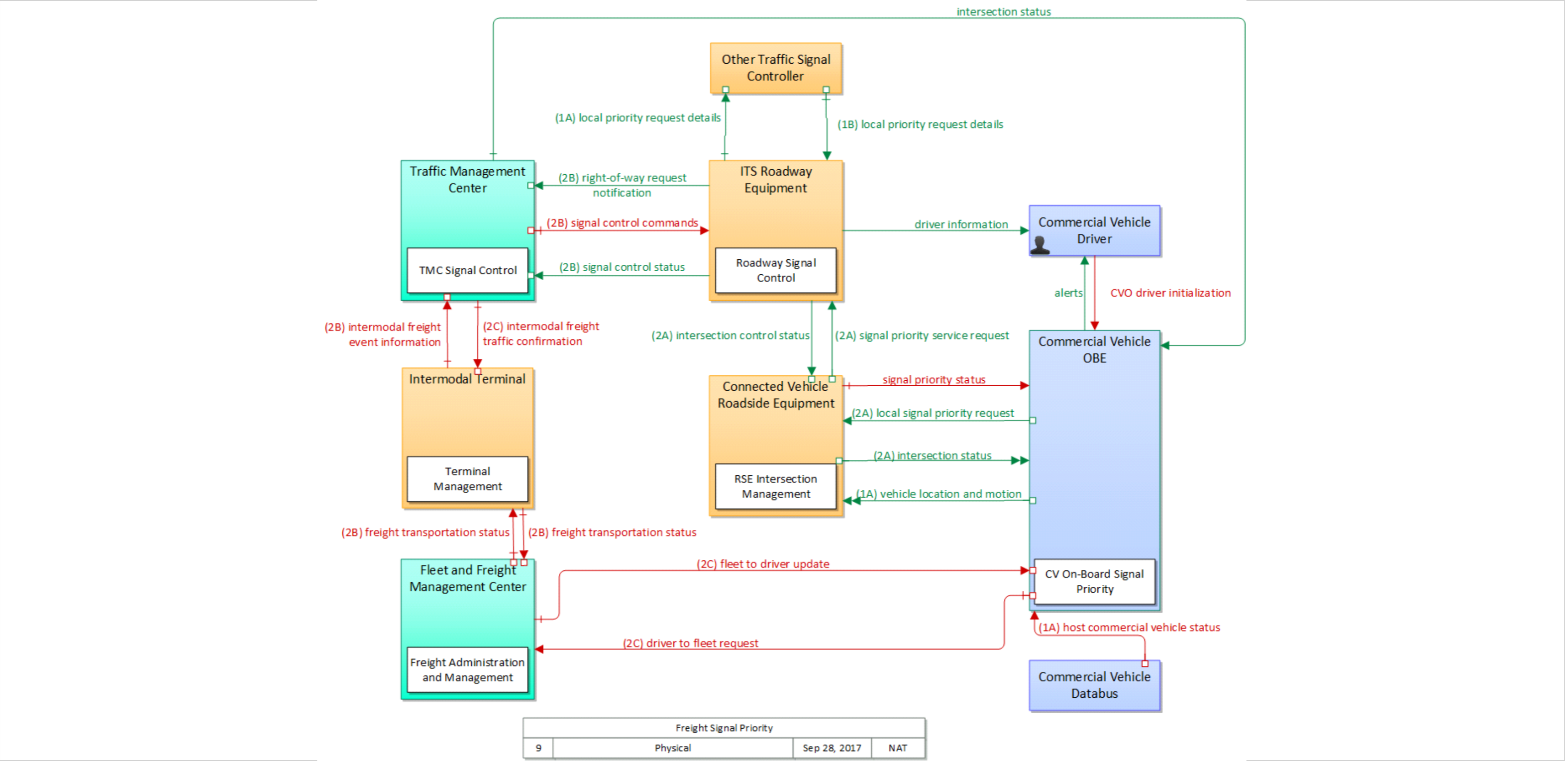
Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal system configuration			
Flow Description:		Data used to configure traffic signal systems including configuring control sections and mode of operation (time based or traffic responsive).											
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Eco-Approach and Departure at Signalized Intersections			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129	
	Solution		DDS: NTCIP Signal System Masters -  OMG DDS RPC					Solution Issue Score:	480
	Issue		Issue Description				Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High

Service Package:		Eco-Approach and Departure at Signalized Intersections		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		129	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle location and motion for surveillance	
Flow Description:		Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve									

Service Package:	Eco-Approach and Departure at Signalized Intersections	Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	129
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle location and motion
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.				

The Freight Signal Priority application (FSP) provides traffic signal priority for freight and commercial vehicles traveling in a signalized network. The goal of the freight signal priority application is to reduce stops, delays, to increase travel time reliability for freight traffic, and to enhance safety at intersections.



Service Package:	Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
Source:	Commercial Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	local signal priority request	
Flow Description:	Request from a vehicle to a signalized intersection for priority at that intersection. This flow also allows the vehicle to cancel a priority request (for example, when the vehicle clears the intersection).					
Source:	Commercial Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					

Service Package:	Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
Source:	Commercial Vehicle OBE	Destination:	Fleet and Freight Management Center	Flow:	driver to fleet request	
Flow Description:	Requests from the driver and vehicle for routing, payment, and enrollment information.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Commercial Vehicle OBE	Flow:	intersection status	
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi					

Service Package:	Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
Source:	Connected Vehicle Roadside Equipment	Destination:	Commercial Vehicle OBE	Flow:	signal priority status	
Flow Description:	In response to a request for signal priority, this flow indicates the status of the priority or preemption request.					

Service Package:	Freight Signal Priority			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment		Flow:	signal priority service request	
Flow Description:	A service request for vehicle priority issued to a traffic signal controller that results in green extension or other accommodation for the priority vehicle, within the current signal timing plan. The request includes the priority level, the desired time						
Solution	US: NTCIP Signal Priority - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648	
	Solution		DDS: NTCIP Signal Priority -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they provide most of the information necessary			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
Source:		Fleet and Freight Management Center		Destination:		Commercial Vehicle OBE		Flow:		fleet to driver update	
Flow Description:		Updated instructions to the driver including dispatch, routing, and special instructions. Special instructions could include incident management instruction, operational tasks, and impacted transport orders in case of an incident. Also includes: mainly									

Service Package:	Freight Signal Priority			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
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Source:

Fleet and Freight Management Center

Destination:

Intermodal Terminal

Flow:

freight transportation status

Flow Description:

A time-stamped status of a freight shipment as it passes through the supply chain from manufacturer through arrival at its final destination; including cargo movement logs, routing information, and cargo ID’s.  
This includes cargo status, current operatio

Solution

US: UBL - NTCIP Messaging

Solution Issue Score:

15

Issue	Issue Description	Assignment Notes	Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	SIRI does not currently provide application level authentication.	Medium

Source:

Intermodal Terminal

Destination:

Fleet and Freight Management Center

Flow:

freight transportation status

Flow Description:

A time-stamped status of a freight shipment as it passes through the supply chain from manufacturer through arrival at its final destination; including cargo movement logs, routing information, and cargo ID’s.  
This includes cargo status, current operatio

Solution

US: UBL - NTCIP Messaging

Solution Issue Score:

15

Issue	Issue Description	Assignment Notes	Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	Application-level authentication not provided	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	It is unclear what security is provided with this link	Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.	SIRI does not currently provide application level authentication.	Medium

Service Package:	Freight Signal Priority			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
Source:	Intermodal Terminal	Destination:	Traffic Management Center	Flow:	intermodal freight event information		
Flow Description:	Plans for movement of intermodal freight from the depot area possibly impacting traffic. May also include requests for special treatment at traffic signals or dynamic lane management systems.						
Solution	(None-Data) - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description			Assignment Notes		Severity	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium	
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium	

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection control status			
Flow Description:		Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.											
	Solution		US: NTCIP Traffic Signal -  SNMPv3							Solution Issue Score:		39	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multipe processes to subscribe and publish information cooperatively.			Medium			

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		ITS Roadway Equipment		Destination:		Other Traffic Signal Controller		Flow:		local priority request details	
Flow Description:		It contains details of the local priority requests that have been received from Other Vehicles.									

Service Package:	Freight Signal Priority			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648	
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	right-of-way request notification	
Flow Description:	Notice that a request has occurred for signal prioritization, signal preemption, pedestrian call, multi-modal crossing activation, or other source for right-of-way.							
	Solution		US: NTCIP Signal Priority - SNMPv1/TLS				Solution Issue Score:	15
	Issue		Issue Description			Assignment Notes		Severity
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			Application-level authentication not provided		Medium
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			It is unclear what security is provided with this link		Medium
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.			SIRI does not currently provide application level authentication.		Medium
	Solution		US: NTCIP Signal Priority - SNMPv3				Solution Issue Score:	36
	Issue		Issue Description			Assignment Notes		Severity
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648	
	Solution		DDS: NTCIP Signal Priority - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		signal control status			
Flow Description:		Operational and status data of traffic signal control equipment including operating condition and current indications.											
	Solution		US: NTCIP Traffic Signal - SNMPv1							Solution Issue Score:		3	
	Issue		Issue Description					Assignment Notes			Severity		
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
	Solution		US: NTCIP Traffic Signal - SNMPv1/TLS							Solution Issue Score:		18	
	Issue		Issue Description					Assignment Notes			Severity		
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Traffic Signal - SNMPv3							Solution Issue Score:		39	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium			
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium			
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium			

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Traffic Signal Controller		Destination:		ITS Roadway Equipment		Flow:		local priority request details	
Flow Description:		It contains details of the local priority requests that have been received from Other Vehicles.									

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648			
Source:		Traffic Management Center		Destination:		Commercial Vehicle OBE		Flow:		intersection status			
Flow Description:		Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi											
Solution		US: SAE Signal Control Messages - Mobile Internet (US)								Solution Issue Score:		480	
Issue		Issue Description						Assignment Notes				Severity	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.										High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						A port number has not been assigned to this message set.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used as well as what port number.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						No port number has been assigned to these messages				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The Electric Charging Hot Spot Notification was designed for DSRC				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						There are no rules defined for how to send ISO 14816 over NTCIP Messaging				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.				High	
Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						These standards are not intended to operate together, but they propvide most of the information necessary				High	

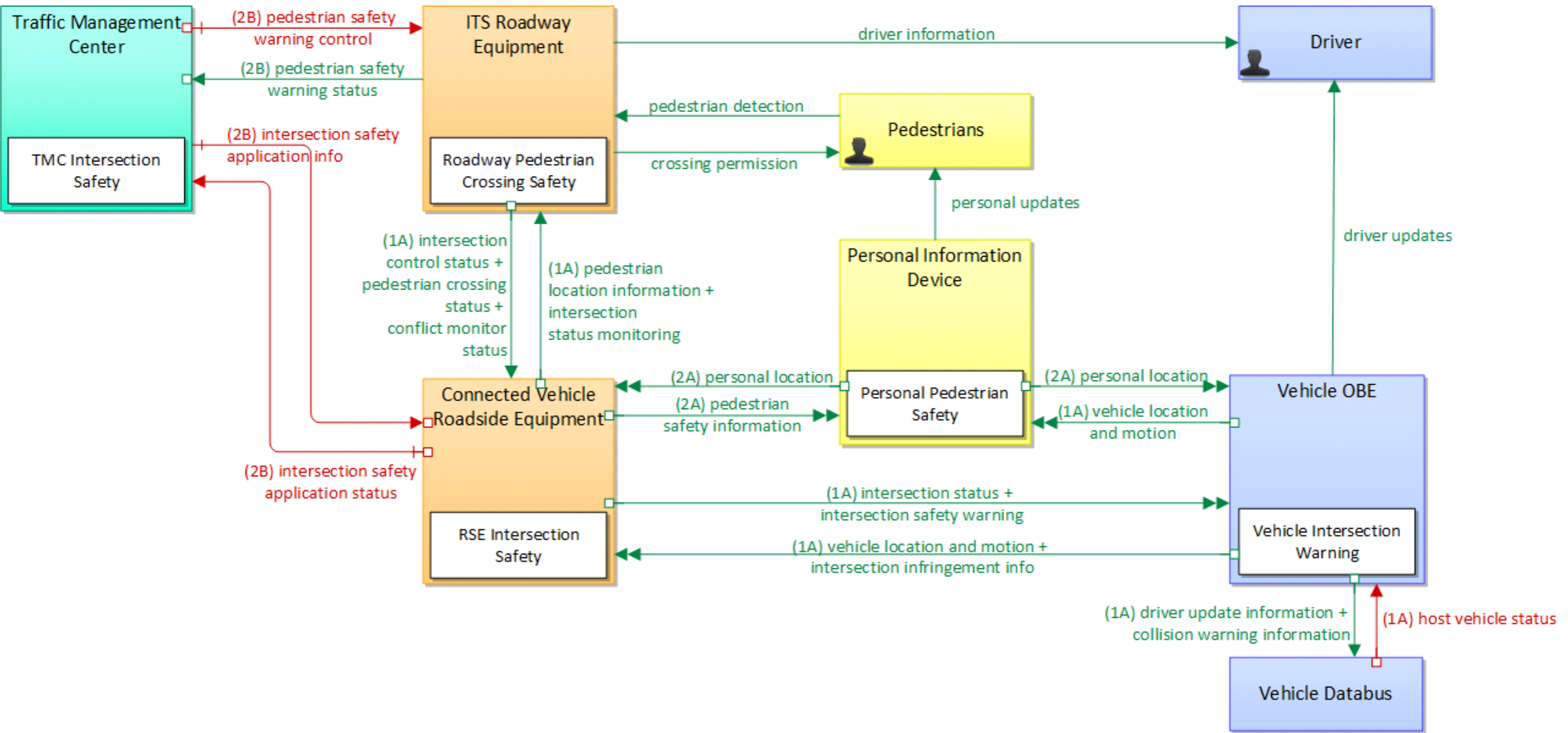
Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648			
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High				
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High				
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High				
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High				
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High				
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High				
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High				
Source:		Traffic Management Center		Destination:		Intermodal Terminal		Flow:		intermodal freight traffic confirmation			
Flow Description:		Confirmation that details concerning the movement of intermodal freight on the roadway network have been received and processed. May also include information on traffic conditions affecting the depot including information concerning any special traffic co											
Solution		(None-Data) - NTCIP Messaging								Solution Issue Score:		15	
		Issue	Issue Description					Assignment Notes		Severity			
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided		Medium			
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link		Medium			
		Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.		Medium			

Service Package:		Freight Signal Priority		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		648		
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		signal control commands		
Flow Description:		Control of traffic signal controllers or field masters including clock synchronization.										
Solution		US: NTCIP Signal System Masters - SNMPv1/TLS							Solution Issue Score:		15	
Issue		Issue Description					Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Signal System Masters - SNMPv3							Solution Issue Score:		36	
Issue		Issue Description					Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648	
	Solution		DDS: NTCIP Signal System Masters - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High

Service Package:		Freight Signal Priority		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	648
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		These standards are not intended to operate together, but they propvide most of the information necessary		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		TPEG2 is not designed to be transported over NTCIP Messaging services.		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		UBL is not typically paired with NTCIP messaging		High
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.		Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High

The Pedestrian in Signalized Crosswalk Warning application provides to the connected vehicle information from the infrastructure that indicates the possible presence of pedestrians in a crosswalk at a signalized intersection. The infrastructure based indication could include the outputs of pedestrian sensors or simply an indication that the pedestrian call button has been activated. This application has been defined for transit vehicles, but can be applicable to any class of vehicle. The application could also provide warning information to the pedestrian regarding crossing status or potential vehicle infringement into the crosswalk.



Pedestrian in Signalized Crosswalk Warning			
11	Physical	Jul 20, 2015	NAT

Service Package:	Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	intersection status monitoring	
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow represents monitoring of communications by a receiver at the intersection to support monitoring for conflicts between actual signal states and RSE communica					

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162			
Source:		Connected Vehicle Roadside Equipment		Destination:		ITS Roadway Equipment		Flow:		pedestrian location information			
Flow Description:		Pedestrian locations at an intersection as detected and reported by an RSE.											
	Solution		US: NTCIP Traffic Signal - SNMPv3							Solution Issue Score:		39	
	Issue		Issue Description						Assignment Notes			Severity	
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162	
	Solution	DDS: NTCIP Traffic Signal - OMG DDS RPC					Solution Issue Score:	480
	Issue	Issue Description				Assignment Notes		Severity
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.						High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				A port number has not been assigned to this message set.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High		
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High		
Source:		Connected Vehicle Roadside Equipment		Destination:		Personal Information Device		Flow:		pedestrian safety information	
Flow Description:		Current pedestrian crossing status including crossing status, permission to cross and crossing time remaining.									

Service Package:	Pedestrian in Signalized Crosswalk Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	intersection safety application status		
Flow Description:	Infrastructure safety application status reported by the RSE. This includes current operational state and status of the RSE and a record of intersection safety issues identified and alerts and warnings issued.						
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection safety warning		
Flow Description:	A warning of an imminent unsafe vehicle infringement at an intersection that may endanger other vehicles or pedestrians. This allows vehicles approaching the intersection to be warned in the event of an imminent red light or stop sign violation or potent						

Service Package:	Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection status	
Flow Description:	Current signal phase and timing information for all lanes at a signalized intersection. This flow identifies active lanes and lanes that are being stopped and specifies the length of time that the current state will persist for each lane. It also identi					

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		conflict monitor status			
Flow Description:		A control flow that supports failsafe operation in the event that a conflict is detected that requires the RSE to enter a failsafe operating mode. Analogous to a traffic signal conflict monitor, this flow is issued when differences are detected between in											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection control status			
Flow Description:		Status data provided by the traffic signal controller including phase information, alarm status, and priority/preempt status.											
	Solution		US: NTCIP Traffic Signal - SNMPv3							Solution Issue Score:		39	
	Issue		Issue Description					Assignment Notes				Severity	
	Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.					NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162			
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		pedestrian crossing status			
Flow Description:		Current pedestrian information including an indication of whether the pedestrian call button has been activated, the current state of the pedestrian signal, and information indicating whether pedestrians are currently occupying the cross walk.											
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		pedestrian safety warning status			
Flow Description:		Current operational status and state of pedestrian crossing warning systems.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.	High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging	High	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Personal Information Device		Destination:		Connected Vehicle Roadside Equipment		Flow:		personal location	
Flow Description:		The current location (latitude, longitude, and elevation) reported by the personal information device									

Service Package:	Pedestrian in Signalized Crosswalk Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
Source:	Personal Information Device	Destination:	Vehicle OBE	Flow:	personal location		
Flow Description:	The current location (latitude, longitude, and elevation) reported by the personal information device						
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	intersection safety application info		
Flow Description:	Intersection and device configuration data and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.						

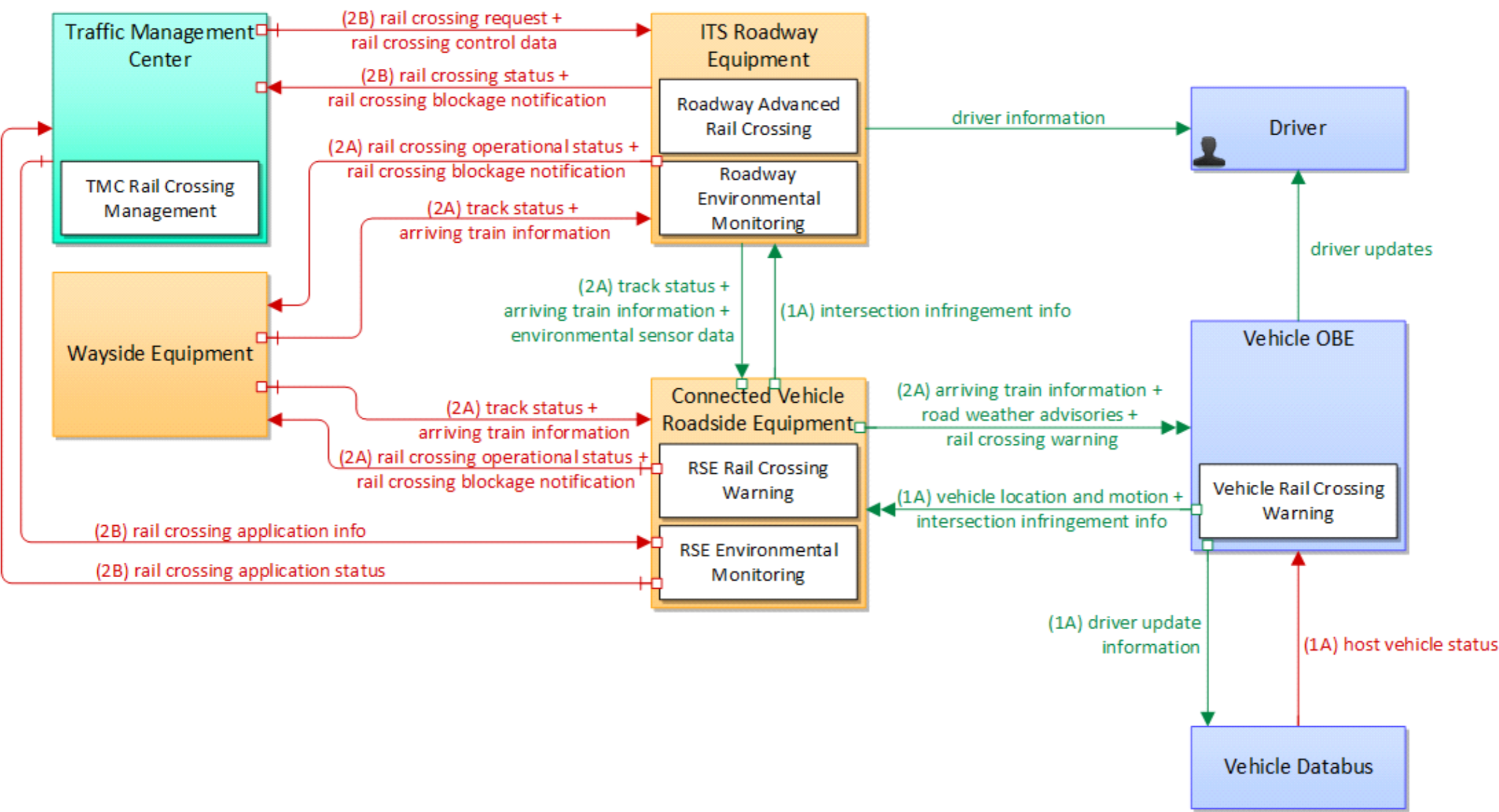
Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		pedestrian safety warning control			
Flow Description:		Configuration and control of equipment that monitors and manages pedestrian crossings and provides visual displays and warnings to drivers when pedestrians are occupying a cross walk.											
Solution		US: NTCIP Traffic Signal - SNMPv1								Solution Issue Score:		3	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv1/TLS								Solution Issue Score:		18	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Traffic Signal - SNMPv3								Solution Issue Score:		39	
Issue		Issue Description						Assignment Notes				Severity	
Dialogs are not fully defined (medium)		The specific dialogs for exchanging this data have not been fully defined.						NTCIP messaging defines how a process can subscribe and publish data, but does not provide a mechanism within the host to allow multiple processes to subscribe and publish information cooperatively.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162	
	Solution		DDS: NTCIP Traffic Signal - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Pedestrian in Signalized Crosswalk Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		162	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection infringement info	
Flow Description:		Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's									

Service Package:	Pedestrian in Signalized Crosswalk Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	162
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion		
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.						
Source:	Vehicle OBE	Destination:	Personal Information Device	Flow:	vehicle location and motion		
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.						

The Railroad Crossing Violation Warning (RCVW) application will alert and/or warn drivers who are approaching an at-grade railroad crossing if they are on a crash-imminent trajectory to collide with a crossing or approaching train. This will be achieved through the integration of both vehicle-based and infrastructure-based technologies. The RSE sends to the vehicle detailed geometric information about the intersection, as well as information about whether a train is approaching or blocking the intersection. The geometric information could be obtained from an RSE at the intersection, or obtained from an RSE at some earlier point in the vehicles trip. The information about the approach or presence of a train would be obtained from the infrastructure via a connection between the rail infrastructure and the RSE. The information received from the RSE at the intersection could also be augmented with road surface information or other weather-related data. A more advanced version of the application could provide train arrival information or information about the amount of time the Highway Rail Intersection (HRI) will be blocked by the train.



Railroad Crossing Violation Warning			
6	Physical	Jul 20, 2015	NAT

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment	Flow:	intersection infringement info	
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's					
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	rail crossing application status	
Flow Description:	Rail crossing application status reported by the RSE. This includes current operational state and status of the RSE and a record of rail crossing events and alerts and warnings issued.					

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	arriving train information	
Flow Description:	Information for a train approaching a highway-rail intersection that may include direction and allow calculation of approximate arrival time and closure duration.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	rail crossing warning	
Flow Description:	A warning of a train approaching or already in a highway rail intersection.					

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	road weather advisories	
Flow Description:	Segment-specific weather and road conditions including real-time advisories of deteriorating road and weather conditions, medium-term advisories for the next 2-12 hours, and long-term advisories more than 12 hours into the future. The advisories may incl					
Source:	Connected Vehicle Roadside Equipment	Destination:	Wayside Equipment	Flow:	rail crossing blockage notification	
Flow Description:	Notification that a highway-rail intersection is obstructed and supporting information.					

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Connected Vehicle Roadside Equipment	Destination:	Wayside Equipment	Flow:	rail crossing operational status	
Flow Description:	Status of the highway-rail grade crossing equipment including both the current state or mode of operation and the current equipment condition.					
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	arriving train information	
Flow Description:	Information for a train approaching a highway-rail intersection that may include direction and allow calculation of approximate arrival time and closure duration.					

Service Package:	Railroad Crossing Violation Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	ITS Roadway Equipment		Destination:	Connected Vehicle Roadside Equipment	Flow:	environmental sensor data	
Flow Description:	Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en						
Solution	US: NTCIP Environmental Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Railroad Crossing Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		36	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		ITS Roadway Equipment		Destination:		Connected Vehicle Roadside Equipment		Flow:		track status	
Flow Description:		Current status of the wayside equipment and notification of an arriving train.									

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	ITS Roadway Equipment	Destination:	Traffic Management Center	Flow:	rail crossing blockage notification	
Flow Description:	Notification that a highway-rail intersection is obstructed and supporting information.					
Source:	ITS Roadway Equipment	Destination:	Traffic Management Center	Flow:	rail crossing status	
Flow Description:	Status of the highway-rail intersection equipment including both the current state or mode of operation and the current equipment condition.					

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	ITS Roadway Equipment	Destination:	Wayside Equipment	Flow:	rail crossing blockage notification	
Flow Description:	Notification that a highway-rail intersection is obstructed and supporting information.					
Source:	ITS Roadway Equipment	Destination:	Wayside Equipment	Flow:	rail crossing operational status	
Flow Description:	Status of the highway-rail grade crossing equipment including both the current state or mode of operation and the current equipment condition.					

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	rail crossing application info	
Flow Description:	Rail crossing and device configuration data and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.					
Source:	Traffic Management Center	Destination:	ITS Roadway Equipment	Flow:	rail crossing control data	
Flow Description:	Data required for HRI information transmitted at railroad grade crossings and within railroad operations.					

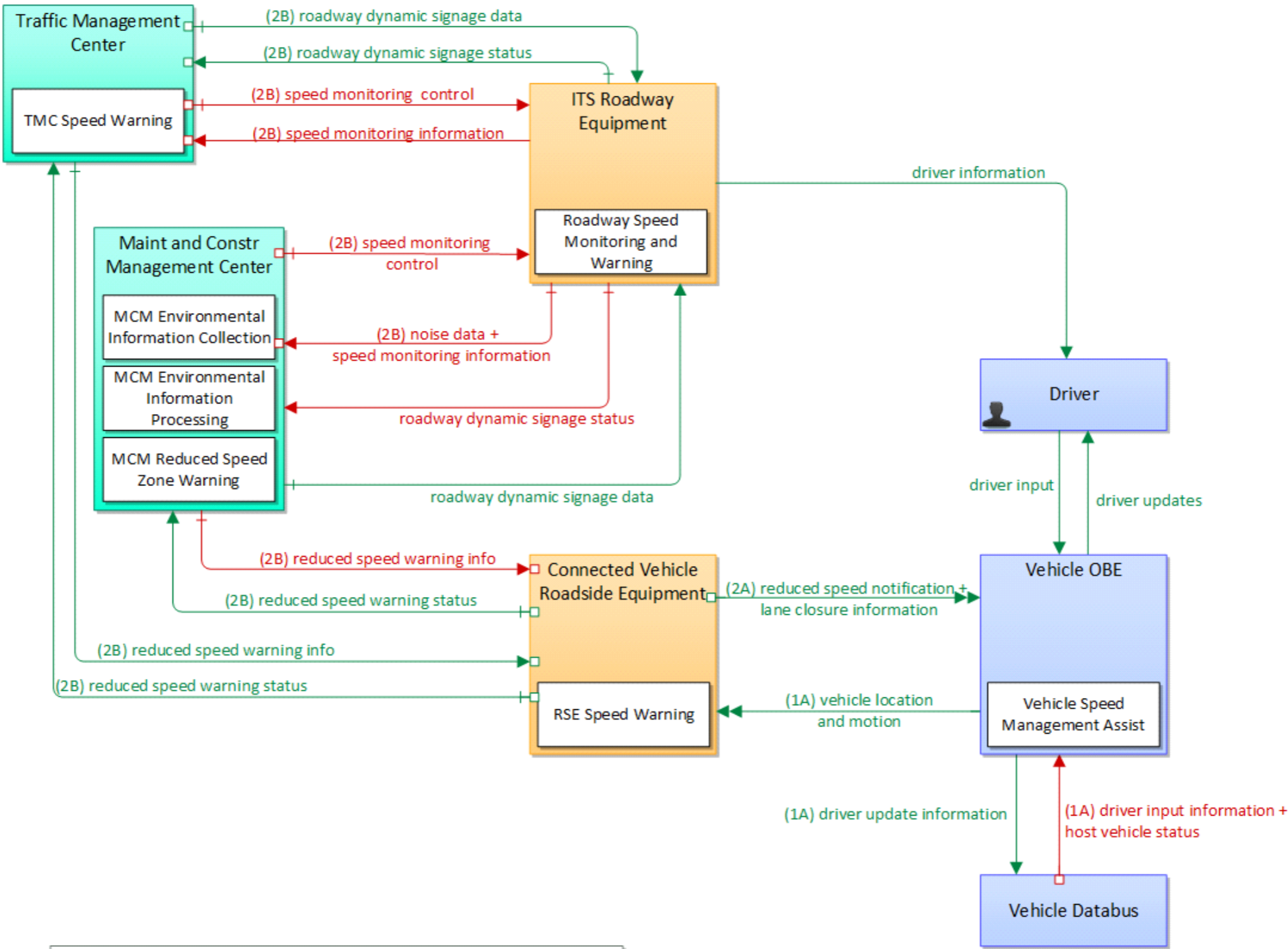
Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Traffic Management Center	Destination:	ITS Roadway Equipment	Flow:	rail crossing request	
Flow Description:	A request for highway-rail intersection status or a specific control request intended to modify HRI operation.					
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	intersection infringement info	
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's					

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					
Source:	Wayside Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	arriving train information	
Flow Description:	Information for a train approaching a highway-rail intersection that may include direction and allow calculation of approximate arrival time and closure duration.					

Service Package:	Railroad Crossing Violation Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Wayside Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	track status		
Flow Description:	Current status of the wayside equipment and notification of an arriving train.						
Source:	Wayside Equipment	Destination:	ITS Roadway Equipment	Flow:	arriving train information		
Flow Description:	Information for a train approaching a highway-rail intersection that may include direction and allow calculation of approximate arrival time and closure duration.						

Service Package:	Railroad Crossing Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	36
Source:	Wayside Equipment	Destination:	ITS Roadway Equipment	Flow:	track status	
Flow Description:	Current status of the wayside equipment and notification of an arriving train.					

The Reduced Speed Zone Warning / Lane Closure(RSZW/LC) application provides connected vehicles which are approaching a reduced speed zone with information on the zone’s posted speed limit and/or if the configuration of the roadway is altered (e.g., lane closures, lane shifts). Reduced speed zones include (but are not be limited to) construction/work zones, school zones, pedestrian crossing areas, and incorporated zones (e.g., rural towns). The RSZW/LC application inside the connected vehicle uses the revised speed limit along with any applicable changed roadside configuration information to determine whether to provide an alert or warning to the driver. Additionally, to provide warnings to non-equipped vehicles, infrastructure equipment measures the speed of the approaching vehicles and if greater than the reduced speed zone posted speed limit will provide warning signage. The application will provide an alert to drivers in advance when aggressive braking is required to reduce to the posted speed limit.



Reduced Speed Zone Warning			
9	Physical	Apr 18, 2017	NAT

Service Package:	Reduced Speed Zone Warning / Lane Closure			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
Source:	Connected Vehicle Roadside Equipment	Destination:	Maint and Constr Management Center	Flow:	reduced speed warning status		
Flow Description:	Speed warning application status reported by the RSE. This includes current operational state and status of the RSE and a record of measured vehicle speeds and notifications, alerts, and warnings issued.						
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	reduced speed warning status		
Flow Description:	Speed warning application status reported by the RSE. This includes current operational state and status of the RSE and a record of measured vehicle speeds and notifications, alerts, and warnings issued.						

Service Package:		Reduced Speed Zone Warning / Lane Closure				Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135					
Source:		Connected Vehicle Roadside Equipment		Destination:		Vehicle OBE		Flow:		lane closure information							
Flow Description:		Lane closure information provided to passing vehicles. This flow provides information about roadway configuration changes such as lane closures and shifts.															
		Solution										TPEG2 - Local Broadcast Wireless (US)		Solution Issue Score:		15	
		Issue		Issue Description								Assignment Notes				Severity	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.								Application-level authentication not provided				Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.								It is unclear what security is provided with this link				Medium	
		Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.								SIRI does not currently provide application level authentication.				Medium	
Source:		Connected Vehicle Roadside Equipment		Destination:		Vehicle OBE		Flow:		reduced speed notification							
Flow Description:		Reduced speed zone information provided to passing vehicles. This flow provides the reduced speed limit, the location and extent of the reduced speed zone, and associated warning information.															

Service Package:	Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
Source:	ITS Roadway Equipment	Destination:	Maint and Constr Management Center	Flow:	noise data	
Flow Description:	It contains data about noise in the geographic area managed by the System (typically in areas with noise pollution). Sensors that are part of another Function in the Manage Traffic Area will have collected this data.					

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		ITS Roadway Equipment		Destination:		Maint and Constr Management Center		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign -  SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Message Sign -  SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		ITS Roadway Equipment		Destination:		Maint and Constr Management Center		Flow:		speed monitoring information			
Flow Description:		System status including current operational state and logged information including measured speeds, warning messages displayed, and violation records.											
	Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Transportation Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		roadway dynamic signage status			
Flow Description:		Current operating status of dynamic message signs.											
	Solution		US: NTCIP Message Sign -  SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Message Sign -  SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		speed monitoring information			
Flow Description:		System status including current operational state and logged information including measured speeds, warning messages displayed, and violation records.											
	Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Transportation Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Maint and Constr Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		reduced speed warning info	
Flow Description:		Roadway configuration data, current speed limits including time of day, week, or season speed limits as necessary, and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, r									

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		Maint and Constr Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign -  SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign -  SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		Maint and Constr Management Center		Destination:		ITS Roadway Equipment		Flow:		speed monitoring control			
Flow Description:		Information used to configure and control automated speed monitoring, speed warning, and speed enforcement systems.											
	Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Transportation Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Traffic Management Center		Destination:		Connected Vehicle Roadside Equipment		Flow:		reduced speed warning info	
Flow Description:		Roadway configuration data, current speed limits including time of day, week, or season speed limits as necessary, and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, r									

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		roadway dynamic signage data			
Flow Description:		Information used to initialize, configure, and control dynamic message signs. This flow can provide message content and delivery attributes, local message store maintenance requests, control mode commands, status queries, and all other commands and associ											
Solution		US: NTCIP Message Sign -  SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Message Sign -  SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Message Sign - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

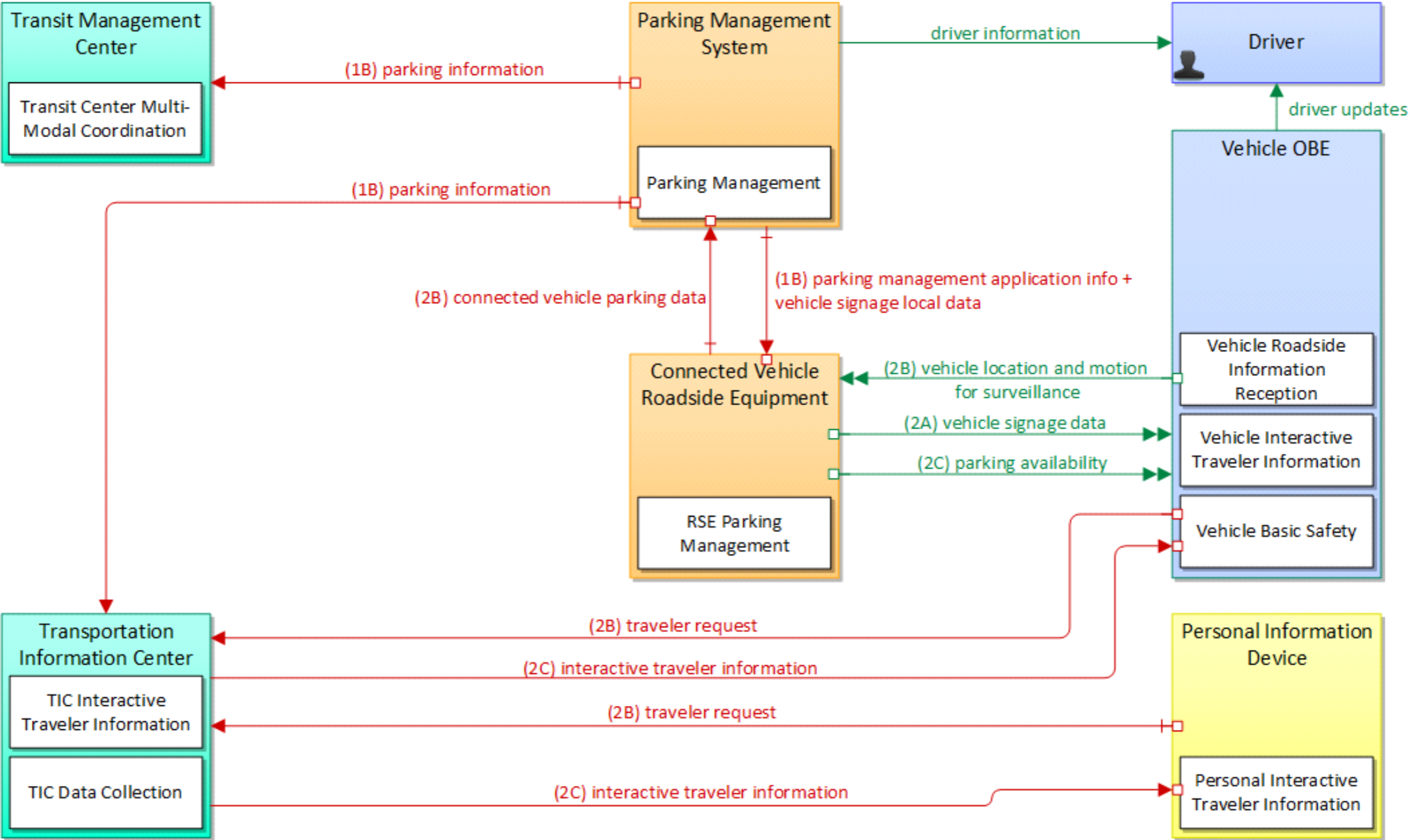
Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		speed monitoring control			
Flow Description:		Information used to configure and control automated speed monitoring, speed warning, and speed enforcement systems.											
	Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description						Assignment Notes			Severity	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium	
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium	
	Solution		US: NTCIP Transportation Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description						Assignment Notes			Severity	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium	
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	135	
	Solution		DDS: NTCIP Transportation Sensors - OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Reduced Speed Zone Warning / Lane Closure		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		135	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle location and motion	
Flow Description:		Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.									

The Smart Park and Ride application provides real-time information on Park and Ride capacity and supports traveler's decision-making on where best to park and make use of transit alternatives. The application uses connected vehicles to monitor in real time the occupancy of parking spaces and provide the information to travelers via smartphones and to connected vehicles.



Smart Park and Ride System			
6	Physical	Jul 7, 2015	NAT

Service Package:	Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
Source:	Parking Management System	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage local data	
Flow Description:	Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co					

Service Package:	Smart Park and Ride System			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
Source:	Parking Management System	Destination:	Transit Management Center	Flow:	parking information		
Flow Description:	General parking information and status, including current parking availability.						
Solution	US: ATIS - NTCIP Messaging					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium

Service Package:		Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Smart Park and Ride System		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		30			
Source:		Parking Management System		Destination:		Transportation Information Center		Flow:		parking information			
Flow Description:		General parking information and status, including current parking availability.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Smart Park and Ride System		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		30	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Personal Information Device		Destination:		Transportation Information Center		Flow:		traveler request	
Flow Description:		A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or									

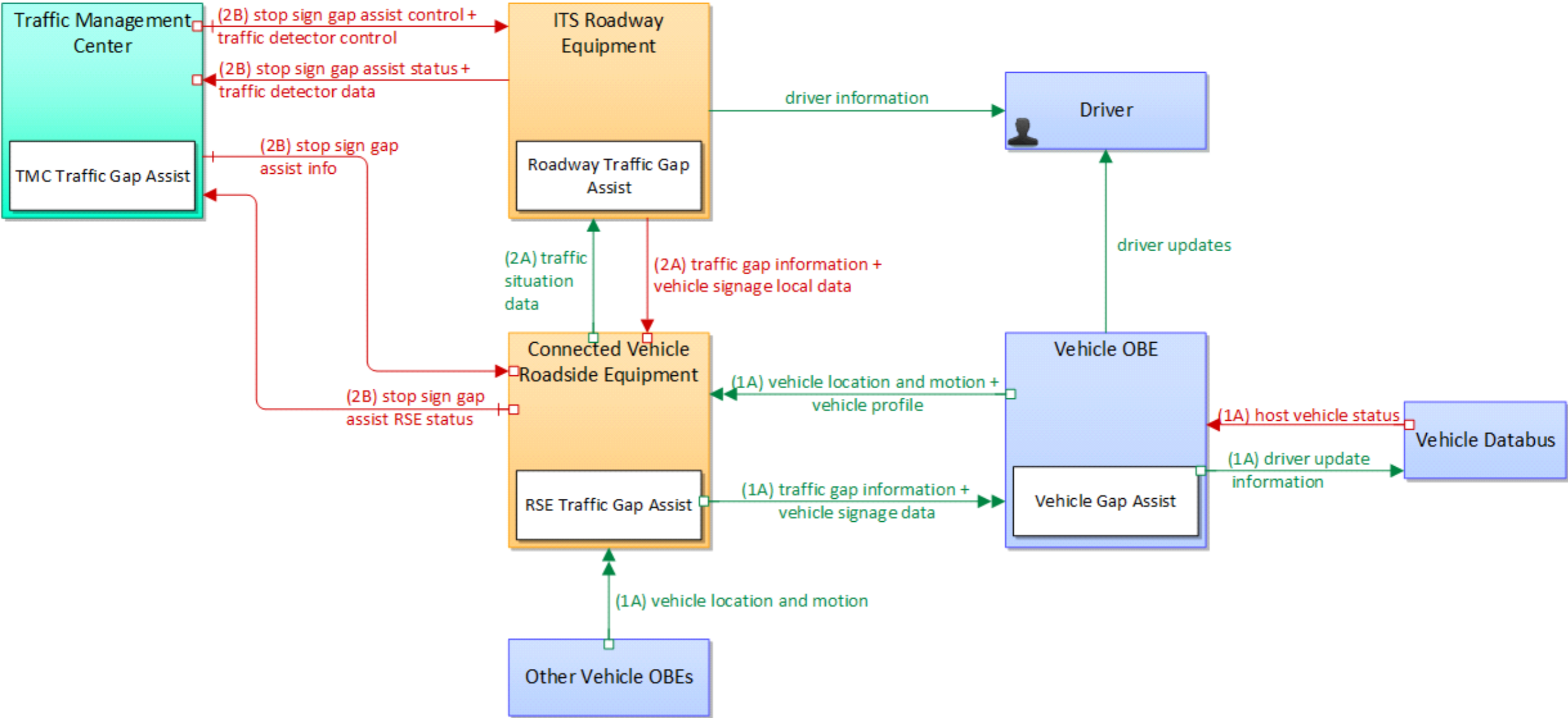
Service Package:	Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
Source:	Transportation Information Center	Destination:	Personal Information Device	Flow:	interactive traveler information	
Flow Description:	Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat					
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	interactive traveler information	
Flow Description:	Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat					

Service Package:	Smart Park and Ride System			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance		
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve						
Source:	Vehicle OBE	Destination:	Transportation Information Center	Flow:	traveler request		
Flow Description:	A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or						

Service Package:	Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
Source:	Connected Vehicle Roadside Equipment	Destination:	Parking Management System	Flow:	connected vehicle parking data	
Flow Description:	Current, aggregate parking data collected from connected vehicles that can be used to monitor parking space usage and availability. This flow identifies spaces that are occupied by connected vehicles.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	parking availability	
Flow Description:	Information on available parking. This flow identifies available spaces with associated information about parking restrictions and location for each available space. Specifically includes information on parking for commercial vehicles, coaches/buses, an					

Service Package:	Smart Park and Ride System		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	30
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					
Source:	Parking Management System	Destination:	Connected Vehicle Roadside Equipment	Flow:	parking management application info	
Flow Description:	Parking management application information including parking lot configuration and status and associated parameters and thresholds that control the algorithms that monitor parking occupancy and the parking information that is delivered. This flow also su					

The Stop Sign Gap Assist (SSGA) safety application is intended to improve safety at non-signalized intersections where only the minor road has posted stop signs. This application includes both onboard (for connected vehicles) and roadside signage warning systems (for non-equipped vehicles). The application will help drivers on a minor road stopped at an intersection understand the state of activities associated with that intersection by providing a warning of unsafe gaps on the major road. The SSGA application collects all available sensor information (major road, minor road, and median sensors) data and computes the dynamic state of the intersection in order to issue appropriate warnings and alerts.



Stop Sign Gap Assist			
5	Physical	Sep 30, 2017	NAT

Service Package:	Stop Sign Gap Assist			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Connected Vehicle Roadside Equipment	Destination:	ITS Roadway Equipment		Flow:	traffic situation data	
Flow Description:	Current, aggregate traffic data collected from connected vehicles that can be used to supplement or replace information collected by roadside traffic detectors. It includes raw and/or processed reported vehicle speeds, counts, and other derived measures.						
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Stop Sign Gap Assist		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Stop Sign Gap Assist		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Connected Vehicle Roadside Equipment		Destination:		Traffic Management Center		Flow:		stop sign gap assist RSE status	
Flow Description:		Stop sign gap assist application status. This includes current operational state and status of the RSE and a log of stop sign gap assist events including alerts and warnings issued.									

Service Package:	Stop Sign Gap Assist		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	traffic gap information	
Flow Description:	Measured gap to the next approaching vehicle per lane and direction of travel					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					

Service Package:	Stop Sign Gap Assist			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	traffic gap information		
Flow Description:	Measured gap to the next approaching vehicle per lane and direction of travel						
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage local data		
Flow Description:	Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co						

Service Package:	Stop Sign Gap Assist			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	ITS Roadway Equipment	Destination:	Traffic Management Center	Flow:	stop sign gap assist status		
Flow Description:	The current operational state and status of the field controller, sensors, and signs that support the stop sign gap assist application.						

Service Package:	Stop Sign Gap Assist			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	ITS Roadway Equipment		Destination:	Traffic Management Center		Flow:	traffic detector data
Flow Description:	Raw and/or processed traffic detector data which allows derivation of traffic flow variables (e.g., speed, volume, and density measures) and associated information (e.g., congestion, potential incidents). This flow includes the traffic data and the opera						
Solution	US: NTCIP Transportation Sensors - SNMPv1/TLS					Solution Issue Score:	15
Issue	Issue Description				Assignment Notes		Severity
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				Application-level authentication not provided		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				It is unclear what security is provided with this link		Medium
Security inadequate	The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.				SIRI does not currently provide application level authentication.		Medium
Solution	US: NTCIP Transportation Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description				Assignment Notes		Severity
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.				NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium

Service Package:		Stop Sign Gap Assist		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Stop Sign Gap Assist		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Vehicle OBEs		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle location and motion	
Flow Description:		Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.									

Service Package:	Stop Sign Gap Assist			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	stop sign gap assist info		
Flow Description:	Intersection and device configuration data and warning parameters and thresholds for the stop sign gap assist application. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.						
Source:	Traffic Management Center	Destination:	ITS Roadway Equipment	Flow:	stop sign gap assist control		
Flow Description:	Configuration and control of detectors that monitor traffic on the major road and signs that provide stop sign gap assist alerts and warnings to vehicles on the minor road.						

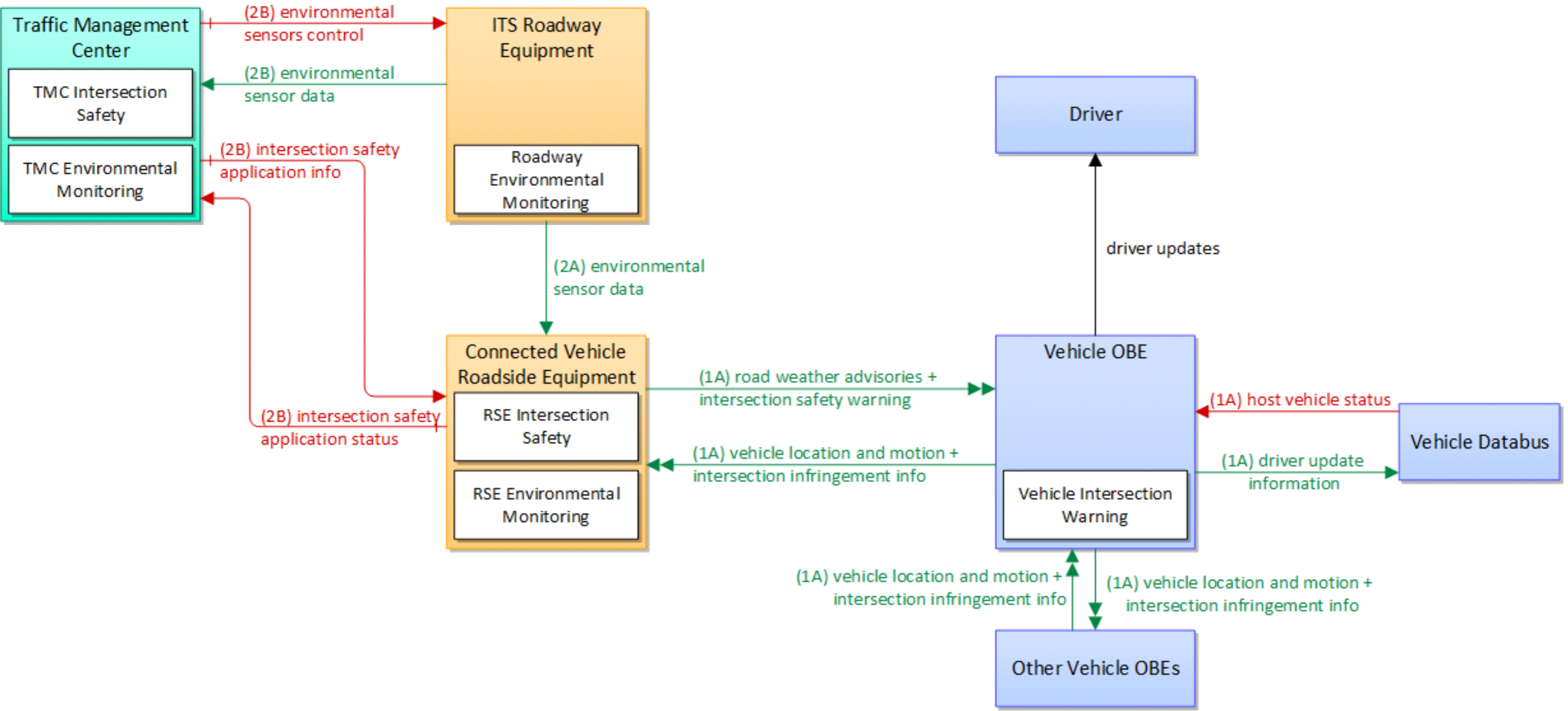
Service Package:		Stop Sign Gap Assist		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		traffic detector control			
Flow Description:		Information used to configure and control traffic sensor systems.											
Solution		US: NTCIP Transportation Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes				Severity	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link				Medium	
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.				Medium	
Solution		US: NTCIP Transportation Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes				Severity	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.				Medium	
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.				Medium	

Service Package:		Stop Sign Gap Assist		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66	
	Solution		DDS: NTCIP Transportation Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Stop Sign Gap Assist		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		vehicle location and motion	
Flow Description:		Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.									

Service Package:	Stop Sign Gap Assist	Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle profile
Flow Description:	Information about a vehicle such as vehicle make and model, fuel type, engine type, average emissions, average fuel consumption, passenger occupancy, or other data that can be used to classify vehicle eligibility for access to specific lanes, road segment				

The Stop Sign Violation Warning (SSVW) safety application is intended to improve safety for at unsignalized intersections with posted stop signs by providing warnings to the driver approaching an unsignalized intersection. The application is designed to warn drivers that they may violate an upcoming stop sign based on their speeds and distance to the stop sign. In order for the application to operate the vehicle needs to have detailed geometric information about the intersection, which is used by the onboard portion of the application to determine if a stop sign violation is likely and to provide the driver a warning about the potential stop sign violation. The geometric information could be obtained from an RSE at the intersection, or obtained from an RSE at some earlier point in the vehicles trip. If the information is received from an RSE at the intersection then it could be augmented with road surface information or other weather-related data.



Stop Sign Violation Warning			
7	Physical	Jul 20, 2015	NAT

Service Package:	Stop Sign Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Connected Vehicle Roadside Equipment	Destination:	Traffic Management Center	Flow:	intersection safety application status	
Flow Description:	Infrastructure safety application status reported by the RSE. This includes current operational state and status of the RSE and a record of intersection safety issues identified and alerts and warnings issued.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	intersection safety warning	
Flow Description:	A warning of an imminent unsafe vehicle infringement at an intersection that may endanger other vehicles or pedestrians. This allows vehicles approaching the intersection to be warned in the event of an imminent red light or stop sign violation or potent					

Service Package:	Stop Sign Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	road weather advisories	
Flow Description:	Segment-specific weather and road conditions including real-time advisories of deteriorating road and weather conditions, medium-term advisories for the next 2-12 hours, and long-term advisories more than 12 hours into the future. The advisories may incl					

Service Package:	Stop Sign Violation Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	ITS Roadway Equipment	Destination:	Connected Vehicle Roadside Equipment	Flow:	environmental sensor data		
Flow Description:	Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en						
Solution	US: NTCIP Environmental Sensors - SNMPv3					Solution Issue Score:	36
Issue	Issue Description			Assignment Notes		Severity	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1201 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1202 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1203 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1204 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1205 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1207 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1209 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1210 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1211 data needs to be upgraded to SNMPv3.		Medium	
Update data to SNMPv3	Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.			NTCIP 1213 data needs to be upgraded to SNMPv3.		Medium	

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66	
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66			
Source:		ITS Roadway Equipment		Destination:		Traffic Management Center		Flow:		environmental sensor data			
Flow Description:		Current road conditions (e.g., surface temperature, subsurface temperature, moisture, icing, treatment status) and surface weather conditions (e.g., air temperature, wind speed, precipitation, visibility) as measured and reported by fixed and/or mobile en											
Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		
Solution		US: NTCIP Environmental Sensors - SNMPv3								Solution Issue Score:		36	
Issue		Issue Description						Assignment Notes			Severity		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.						NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66			
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC							Solution Issue Score:		480	
	Issue		Issue Description					Assignment Notes			Severity		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					TPEG2 is not designed to be transported over NTCIP Messaging services.			High		
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					UBL is not typically paired with NTCIP messaging			High		

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Other Vehicle OBEs		Destination:		Vehicle OBE		Flow:		intersection infringement info	
Flow Description:		Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's									

Service Package:	Stop Sign Violation Warning		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Other Vehicle OBEs	Destination:	Vehicle OBE	Flow:	vehicle location and motion	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.					
Source:	Traffic Management Center	Destination:	Connected Vehicle Roadside Equipment	Flow:	intersection safety application info	
Flow Description:	Intersection and device configuration data and warning parameters and thresholds. This flow also supports remote control of the application so the application can be taken offline, reset, or restarted.					

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66			
Source:		Traffic Management Center		Destination:		ITS Roadway Equipment		Flow:		environmental sensors control			
Flow Description:		Data used to configure and control environmental sensors.											
	Solution		US: NTCIP Environmental Sensors - SNMPv1/TLS							Solution Issue Score:		15	
	Issue		Issue Description					Assignment Notes			Severity		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					Application-level authentication not provided			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					It is unclear what security is provided with this link			Medium		
	Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.					SIRI does not currently provide application level authentication.			Medium		
	Solution		US: NTCIP Environmental Sensors - SNMPv3							Solution Issue Score:		36	
	Issue		Issue Description					Assignment Notes			Severity		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1201 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1202 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1203 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1204 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1205 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1207 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1209 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1210 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1211 data needs to be upgraded to SNMPv3.			Medium		
	Update data to SNMPv3		Data has been defined for SNMPv1, but needs to be updated to SNMPv3 format.					NTCIP 1213 data needs to be upgraded to SNMPv3.			Medium		

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66		
	Solution		DDS: NTCIP Environmental Sensors -  OMG DDS RPC						Solution Issue Score:		480	
	Issue		Issue Description					Assignment Notes			Severity	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.								High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					A port number has not been assigned to this message set.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used as well as what port number.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					No port number has been assigned to these messages			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The Electric Charging Hot Spot Notification was designed for DSRC			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					These standards are not intended to operate together, but they propvide most of the information necessary			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					UBL is not typically paired with NTCIP messaging			High	

Service Package:		Stop Sign Violation Warning		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		66	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Vehicle OBE		Destination:		Connected Vehicle Roadside Equipment		Flow:		intersection infringement info	
Flow Description:		Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's									

Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.				

Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	intersection infringement info
Flow Description:	Vehicle path information sent by a vehicle that is performing an unpermitted movement at an intersection such as a stop sign violation or running a red light. Tthis also includes information about possible conflicts with other road users in the vehicle's				

Service Package:	Stop Sign Violation Warning			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	66
Source:	Vehicle OBE	Destination:	Other Vehicle OBEs	Flow:	vehicle location and motion		
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size.						

Service Package:	Traveler Information- Smart Parking	Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
The Traveler Information -Smart Parking application provides users with real-time location, availability, type (e.g., street, garage, AFV only), and the price of parking. The parking information can be provided via DSRC or wide area communications. The application reduces time required for drivers to search for a parking space, which can have eco benefits such as reducing emissions. The application also supports dynamic pricing of parking based on factors such as demand, emissions, or vehicle type.					

Service Package:	Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
Source:	Connected Vehicle Roadside Equipment	Destination:	Parking Management System	Flow:	connected vehicle parking data	
Flow Description:	Current, aggregate parking data collected from connected vehicles that can be used to monitor parking space usage and availability. This flow identifies spaces that are occupied by connected vehicles.					
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	parking availability	
Flow Description:	Information on available parking. This flow identifies available spaces with associated information about parking restrictions and location for each available space. Specifically includes information on parking for commercial vehicles, coaches/buses, an					

Service Package:	Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
Source:	Connected Vehicle Roadside Equipment	Destination:	Vehicle OBE	Flow:	vehicle signage data	
Flow Description:	In-vehicle signing data that augments regulatory, warning, and informational road signs and signals. The information provided would include static sign information (e.g., stop, curve warning, guide signs, service signs, and directional signs) and dynamic					

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60			
Source:		Other Transportation Information Centers		Destination:		Transportation Information Center		Flow:		parking information			
Flow Description:		General parking information and status, including current parking availability.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	
Source:		Parking Management System		Destination:		Connected Vehicle Roadside Equipment		Flow:		parking management application info	
Flow Description:		Parking management application information including parking lot configuration and status and associated parameters and thresholds that control the algorithms that monitor parking occupancy and the parking information that is delivered. This flow also su									

Service Package:	Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
Source:	Parking Management System	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle signage local data	
Flow Description:	Information provided by adjacent field equipment to support in-vehicle signing of dynamic information that is currently being displayed to passing drivers. This includes the dynamic information (e.g., grade crossing information, local traffic and road co					

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60			
Source:		Parking Management System		Destination:		Traffic Management Center		Flow:		parking information			
Flow Description:		General parking information and status, including current parking availability.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	Unusual combination of protocols		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.	While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High	

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60			
Source:		Parking Management System		Destination:		Transportation Information Center		Flow:		parking information			
Flow Description:		General parking information and status, including current parking availability.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				There are no rules defined for how to send ISO 14816 over NTCIP Messaging			High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.			High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				These standards are not intended to operate together, but they propvide most of the information necessary			High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				TPEG2 is not designed to be transported over NTCIP Messaging services.			High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				UBL is not typically paired with NTCIP messaging			High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
		Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.				Unusual combination of protocols			High	
Source:		Personal Information Device		Destination:		Transportation Information Center		Flow:		traveler request	
Flow Description:		A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or									

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60			
Source:		Transportation Information Center		Destination:		Other Transportation Information Centers		Flow:		parking information			
Flow Description:		General parking information and status, including current parking availability.											
Solution		US: ATIS - NTCIP Messaging								Solution Issue Score:		15	
Issue		Issue Description						Assignment Notes			Severity		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						Application-level authentication not provided			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						It is unclear what security is provided with this link			Medium		
Security inadequate		The solution does not provide adequate communications security for the information triple, which potentially jeopardizes C-ITS operations.						SIRI does not currently provide application level authentication.			Medium		

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60	
	Solution		DDS: ATIS - OMG DDS				Solution Issue Score:	480
	Issue		Issue Description			Assignment Notes		Severity
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.					High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			A port number has not been assigned to this message set.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used as well as what port number.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			It is unclear what encoding rules should be used for ATIS over NTCIP messaging, or if this is the actual intent of the standards.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			No port number has been assigned to these messages		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Rules for implementing NTCIP exchanges over WAVE have not been defined. It is unclear whether the Roadside Equipment should handle the WAVE security and then translate to its local network or if the information flow should actually be directly to the ITS		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over DDS; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			SAE J2735 was not designed to be implemented over SNMP messaging; interface details need to be defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The dialogs, messages , and performance characteristics are not defined for this combination of flow-specific data over mobile internet.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The Electric Charging Hot Spot Notification was designed for DSRC		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The precise rules for how to provide intersection geometry over EU-ICIP has not been defined.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			The rules for sending TPEG over DATEX messaging are not defined; the excahnge will need to include meta-data describing the rules for broadcasting the information to vehicles.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			There are no rules defined for how to send ISO 14816 over NTCIP Messaging		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			these standards are not designed to work together, but they provide much of the technical details from which a solution can be created.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			These standards are not intended to operate together, but they propvide most of the information necessary		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			TPEG2 is not designed to be transported over NTCIP Messaging services.		High
	Data/comm profile pairing		There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			UBL is not typically paired with NTCIP messaging		High

Service Package:		Traveler Information- Smart Parking		Deployment Timeframe:		Day 1.5		Best (minimum) Issue Score		60	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Uncertain what off-the-shelf Internet mechanism is preferred to exchange this data			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			Unusual combination of protocols			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both DEN and mobile Internet are well defined, there is no an interoperability profile that defines how to pair the two together and address which port numbers to use and how to identify the center to which the information should be sent.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While both IVI and mobile Internet are well defined, there is not an interoperability profile that defines how to pair the two together and address which port numbers to use.			High	
			Data/comm profile pairing	There are ambiguities as to how to (or if one should) couple the upper-layer standards defined in this solution with the indicated lower-layer standards.			While TPEG2 and local broadcast wireless are well defined, there is not an interoperability profile that defines how to pair the two.			High	
Source:		Transportation Information Center		Destination:		Personal Information Device		Flow:		interactive traveler information	
Flow Description:		Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat									

Service Package:	Traveler Information- Smart Parking		Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
Source:	Transportation Information Center	Destination:	Vehicle OBE	Flow:	interactive traveler information	
Flow Description:	Traveler information provided in response to a traveler request. The provided information includes traffic and road conditions, advisories, incidents, payment information, transit services, parking information, weather information, and other travel-relat					
Source:	Vehicle OBE	Destination:	Connected Vehicle Roadside Equipment	Flow:	vehicle location and motion for surveillance	
Flow Description:	Data describing the vehicle's location in three dimensions, heading, speed, acceleration, braking status, and size. This flow represents monitoring of basic safety data ('vehicle location and motion') broadcast by passing connected vehicles for use in ve					

Service Package:	Traveler Information- Smart Parking			Deployment Timeframe:	Day 1.5	Best (minimum) Issue Score	60
Source:	Vehicle OBE	Destination:	Transportation Information Center	Flow:	traveler request		
Flow Description:	A request for traveler information including traffic, transit, toll, parking, road weather conditions, event, and passenger rail information. The request identifies the type of information, the area of interest, parameters that are used to prioritize or						