

## **Appendix F**

### **New York State ITS Standards Specification Development Guide**

# **Core Information and Application Level ITS Standards for New York State Projects**

**Prepared for**

**New York State Department of Transportation**

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## Revision History

Filename	Version	Date	Author	Comment
NYStateSpecDevGuide – ApG – Core Information and Application Level Standards.doc	0.3	11/22/06	M. Insignares / P. Chan	Initial Draft
NYStateSpecDevGuide – ApF – Core Information and Application Level Standards.doc	0.40	01/22/06	M. Insignares	Exchanged order of Appendix F and G.

# 1 Introduction

This appendix defines Core Dialogs, Messages, and MIB Definitions to be used at the information level for ITS deployments. NYSDOT may consider using the section as index into an Information Level ITS Standards Specification Catalog.

## 2 Incident Management Center-to-Center Dialogs and Messages

### 2.1 Incident Management (IEEE 1512) – Core C2C Messages

Message Name	Core / Optional
Request Information (RIN)	Core
Incident Description (IDX)	Core
Assigned Resources (AR)	Core
Close Incident Event (CIE)	Optional
New Incident Event (NIE)	Optional
Available for Hand Off (AHO)	Optional
Grant Hand Off (GHO)	Optional
Poll for Hand Off (PHO)	Optional
Request Hand Off (RHO)	Optional
Disable Center Online (DCO)	Optional
Enable Center Online (ECO)	Optional
Center Properties (ECP)	Optional
Center Plans (CP)	Optional
Split Incident Event (SIE)	Optional
Merge Incident Event (MIE)	Optional
Request Workzone (RWZ)	Optional
Workzone Information (WZI)	Optional
Request Route Advice (RRA)	Optional
Route Advice (RA)	Optional
Manage Command Structure (MCS)	Optional

## **2.2 Incident Management (IEEE 1512) – Core C2C Message Dialogs**

<b>Service</b>	<b>Operation</b>	<b>Message Input</b>	<b>Message Output</b>	<b>Message Pattern</b>	<b>Message Encoding</b>	<b>Message Transport</b>	<b>Core / Optional</b>
imSOAPService	Manage Incident Information Request	Request Information (RIN)	Incident Description (IDX)	R/R	SOAP	HTTP	Core
imSOAPService	Manage Assigned Resources Status Request	Request Information (RIN)	Assigned Resources (AR)	R/R	SOAP	HTTP	Core
imSOAPService	Manage Incident Information Subscription	Request Information (RIN)	C2C Message Receipt	Sub	SOAP	HTTP	Optional
imSOAPService	Manage Assigned Resources Subscription	Request Information (RIN)	C2C Message Receipt	Sub	SOAP	HTTP	Optional
imSOAPSubscriberCallback	Subscriber Incident Information	C2CMessageReceipt	Incident Description (IDX)	Pub	SOAP	HTTP	Optional
imSOAPSubscriberCallback	Subscriber Assigned Resources Status	C2CMessageReceipt	Assigned Resources (AR)	Pub	SOAP	HTTP	Optional
imXMLDirectService	Publish Incident Information		Incident Description (IDX)	Oneway	XML	HTTP GET	Optional
imXMLDirectService	Publish Incident Information		Incident Description (IDX)	Oneway	XML	FTP GET	Optional

Legend:

R/R = Request-Response

Sub = Subscription

Pub = Publication

Oneway = One Way

### 3 Advanced Traffic Management System Center-to-Center Dialogs and Messages

#### 3.1 Advanced Traffic Managemetn Systems (TMDD) – Core C2C Messages

Message Name	Core / Optional
Device Type Inventory Request	Core
Device Type Inventory Response	Core
DMS Inventory Request	Core
DMS Inventory	Core
DMS Status Request	Core
DMS Status	Core
CCTV Inventory Request	Core
CCTV Inventory	Core
CCTV Status Request	Core
CCTV Status	Core
Roadway Links Inventory	Core
Roadway Link Status Request	Core
Roadway Link Status	Core
Roadway Detector Inventory Request	Core
Roadway Detector Inventory	Core
Roadway Detector Status Request	Core
Roadway Detector Status	Core
Roadway Detector Data Request	Core
Roadway Detector Data	Core
HAR Inventory Request	Optional
HAR Inventory	Optional
HAR Status Request	Optional
HAR Status	Optional
TSC Inventory Request	Optional
TSC Inventory	Optional
TSC Status	Optional
TSC Status Request	Optional
ESS Inventory Request	Optional
ESS Inventory	Optional
ESS Status Request	Optional
ESS Status	Optional
Full Event Update (FEU)	Optional

Message Name	Core / Optional
DMS Control Request	Optional
DMS Control Response	Optional
CCTV Control Request	Optional
CCTV Control Response	Optional
HAR Control Request	Optional
HAR Control Response	Optional
TSC Control Request	Optional
TSC Control Response	Optional



### **3.2 Advanced Traffic Management Systems (TMDD) – Core C2C Message Dialogs**

(Note: Only DMS filled in completely)

<b>Service</b>	<b>Operation</b>	<b>Message Input</b>	<b>Message Output</b>	<b>Message Pattern</b>	<b>Message Encoding</b>	<b>Message Transport</b>	<b>Core / Optional</b>
tmddSOAPService	Manage DMS Inventory Request	DMS Inventory Request	DMS Inventory	R/R	SOAP	HTTP	Core
tmddSOAPService	Manage DMS Inventory Subscription	DMS Inventory Request	C2C Message Receipt	Sub	SOAP	HTTP	Optional
tmddSOAPService	Manage DMS Status Request	DMS Status Request	DMS Status	R/R	SOAP	HTTP	Core
tmddSOAPService	Manage DMS Status Subscription	DMS Status Request	C2C Message Receipt	Sub	SOAP	HTTP	Optional
tmddSOAPService	Manage DMS Control	DMS Control Request	DMS Control Response	R/R	SOAP	HTTP	Optional
tmddSOAPSubscriberCallback	Subscriber DMS Inventory Information	C2CMessageReceipt	DMS Inventory	Pub	SOAP	HTTP	Optional
tmddSOAPSubscriberCallback	Subscriber DMS Status Information	C2CMessageReceipt	DMS Status	Pub	SOAP	HTTP	Optional
tmddXMLDirectService	Publish DMS Inventory Information		DMS Inventory	Oneway	XML	HTTP GET	Optional
tmddXMLDirectService	Publish DMS Inventory Information		DMS Inventory	Oneway	XML	FTP GET	Optional

**CONTINUE WITH OTHER DEVICES**

Legend:

R/R = Request-Response

Sub = Subscription

Pub = Publication

Oneway = One Way

## 4 Advanced Traveler Information System Center-to-Center Dialogs and Messages

### 4.1 Advanced Traveler Information Systems (SAE-J2354) – Core C2C Messages

Message Name	Core / Optional
Information Request	Optional
Roadway Links Geography	Optional
Roadway Links Information	Optional
Pavement Conditions Information	Optional
Weather Information	Optional
Transit Route Information	TBD
Transit Schedule Information	TBD
Transit Delay Information	TBD

## 4.2 Advanced Traveler Information Systems (SAE-J2354) – Core C2C Message Dialogs

Service	Operation	Message Input	Message Output	Message Pattern	Message Encoding	Message Transport	Core / Optional
atisSOAPSService	Manage Roadway Links Geography Request	Information Request	Roadway Links Geography	R/R	SOAP	HTTP	Optional
atisSOAPSService	Manage Roadway Links Information Request	Information Request	Roadway Links Information	R/R	SOAP	HTTP	Optional
atisSOAPSService	Manage Pavement Conditions Information Request	Information Request	Pavement Conditions Information	R/R	SOAP	HTTP	Optional
atisSOAPSService	Manage Weather Information Request	Information Request	Weather Information	R/R	SOAP	HTTP	Optional
atisXMLDirectService	Publish Roadway Links Geography		Roadway Links Geography	Oneway	XML	FTP GET	Optional
atisXMLDirectService	Publish Roadway Links Information		Roadway Links Information	Oneway	XML	FTP GET	Optional

CONTINUE WITH OTHER DEVICES

Legend:

R/R = Request-Response

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## 5 NTCIP Center-to-Field Communications Core MIBs

Standard Source	MIB Definition	Core / Optional
NTCIP 1202	Actuated Signal Controller	Optional
NTCIP 1203	Dynamic Message Sign	Core
NTCIP 1204	Environmental Sensor Station	Core
NTCIP 1205	CCTV	Core
NTCIP 1206	Data Collection and Monitoring	Optional
NTCIP 1207	Ramp Meter	Core
NTCIP 1209	Traffic Sensor Station	Core
NTCIP 1211	Signal Control Priority	Optional