

Appendix H

New York State ITS Standards Specification Development Guide

ITS Architecture Flow to ITS Standards Dialogs, Messages, and MIB Definition Mapping

Prepared for

New York State Department of Transportation

Prepared by

Consensus Systems Technologies Corp.

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Table of Contents

1	ITS Architecture Flow to ITS Standards Dialogs, Messages, and MIB Definition Mapping	1
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Revision History

Filename	Version	Date	Author	Comment
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1 ITS Architecture Flow to ITS Standards Dialogs, Messages, and MIB Definition Mapping

This appendix shows a sample mapping of National ITS Architecture V5.1 architecture flows to information level standard messages and MIBs.

Source Standard	Message or MIB	Architecture Flow
TMDD	Organization Information	traffic information coordination
TMDD	DMS Inventory	traffic information coordination
TMDD	DMS Status	traffic information coordination
TMDD	DMS Status	field equipment status
TMDD	DMS Control Request	traffic control coordination
TMDD	CCTV Inventory	traffic images_ud
TMDD	CCTV Status	traffic images_ud
TMDD	CCTV Status	field equipment status
TMDD	CCTV Inventory Request	video surveillance control
TMDD	CCTV Inventory	traffic images_ud
TMDD	CCTV Inventory Request	video surveillance control
TMDD	ESS Inventory	environmental conditions data
TMDD	ESS Status	environmental conditions data
TMDD	ESS Status	field equipment status
TMDD	HAR Inventory	traffic information coordination
TMDD	HAR Status	traffic information coordination
TMDD	HAR Status	field equipment status
TMDD	HAR Control Request	traffic control coordination
TMDD	Ramp Meter Inventory	traffic information coordination
TMDD	Ramp Meter Status	traffic information coordination
TMDD	Ramp Meter Status	field equipment status
TMDD	Ramp Meter Control Request	traffic control coordination
TMDD	Traffic Signal Control Inventory	traffic information coordination
TMDD	Traffic Signal Control Status	traffic information coordination
TMDD	Traffic Signal Control	field equipment status

Source Standard	Message or MIB	Architecture Flow
	Status	
TMDD	Timing Plan Request	traffic control coordination
TMDD	Traffic Detector Inventory	road network conditions
TMDD	Traffic Detector Status	road network conditions
TMDD	Traffic Detector Status	field equipment status
TMDD	Link Data	road network conditions
TMDD	Link Traffic Information	road network conditions
TMDD	Link Status	road network conditions
TMDD	Full Event Update	traffic information coordination
TMDD	Full Event Update	incident information
SAE-J2354	Information Request	traveler information request
SAE-J2354	Roadway Link Traffic Information	road network conditions
SAE-J2354	Roadway Link Geography	road network conditions
SAE-J2354	TBD	transit schedule coordination
SAE-J2354	Weather Information	weather information
SAE-J2354	Weather Information	weather information
IEEE1512.BASE	IncidentDescription (IDX)	incident report
IEEE1512.BASE	IncidentDescription (IDX)	incident information
IEEE1512.BASE	IncidentDescription (IDX)	incident response status
IEEE1512.BASE	CloseIncidentEvent (CIE)	incident report
IEEE1512.BASE	CloseIncidentEvent (CIE)	incident information
IEEE1512.BASE	CloseIncidentEvent (CIE)	incident response status
IEEE1512.BASE	AvailableForHandOff (AHO)	incident response coordination
IEEE1512.BASE	GrantHandOff (GHO)	incident response coordination
IEEE1512.BASE	IncidentDescription (IDX)	incident report
IEEE1512.BASE	IncidentDescription (IDX)	incident information
IEEE1512.BASE	IncidentDescription (IDX)	incident report
IEEE1512.BASE	IncidentDescription (IDX)	incident information
IEEE1512.BASE	EstablishCenterOn-line (ECO)	incident response coordination
IEEE1512.BASE	DisableCenterOn-line (DCO)	incident response coordination
IEEE1512.BASE	EstablishCenterProperties (ECP)	incident response coordination
IEEE1512.BASE	ChangeCenterProperties (CCP)	incident response coordination
IEEE1512.BASE	CenterPlans (CP)	incident response coordination
IEEE1512.1	WorkZoneData (WZD)	work zone information
IEEE1512.1	ClearOrRepairPlan (CRP)	incident response coordination

Source Standard	Message or MIB	Architecture Flow
IEEE1512.1	TrafficCntrlPlan (DTC)	emergency traffic control response
IEEE1512.1	PreemptionUserData (SLP)	emergency traffic control response
IEEE1512.1	RouteAdvice (RA)	suggested route
IEEE1512.1	InfrastructureReport	incident report
IEEE1512.1	InfrastructureReport	incident information
IEEE1512.1	Assigned-Resources (AR)	maint and constr resource response
IEEE1512.1	Assigned-Resources (AR)	resource deployment status
IEEE1512.1	Assigned-Resources	incident report
IEEE1512.1	Assigned-Resources	incident information
IEEE1512.1	Assigned-Resources	incident response coordination
IEEE1512.1	Assigned-Resources	incident response status
IEEE1512.1	Assigned-Resources	resource deployment status
IEEE1512.3	CargoDocs	hazmat information
IEEE1512.3	CargoUnits	hazmat information
IEEE1512.3	CargoVehicle	hazmat information
IEEE1512.3	MaterialRelease	hazmat information
IEEE1512.3	Placards-Labels-Signage	hazmat information
NTCIP 1202 - ASC	Actuated Signal Control	signal control data
NTCIP 1202 - ASC	Actuated Signal Control	signal controls status
NTCIP 1203 - DMS	Dynamic Message Sign	roadway information system data
NTCIP 1203 - DMS	Dynamic Message Sign	roadway information system status
NTCIP 1204 - ESS	Environmental Sensor Station	environmental sensors control
NTCIP 1204 - ESS	Environmental Sensor Station	environmental probe data
NTCIP 1204 - ESS	Environmental Sensor Station	environmental conditions data
NTCIP 1205 - CCTV	Closed Circuit Television	traffic flow
NTCIP 1205 - CCTV	Closed Circuit Television	traffic images
NTCIP 1205 - CCTV	Closed Circuit Television	video surveillance control
NTCIP 1206 - DCM	Data Collection and Monitoring	data collection and monitoring control
NTCIP 1206 - DCM	Data Collection and Monitoring	roadside archive data

Source Standard	Message or MIB	Architecture Flow
NTCIP 1207 - RM	Ramp Meter	freeway control data
NTCIP 1207 - RM	Ramp Meter	freeway control status
NTCIP 1209 - TSS	Traffic Sensor Station	traffic sensor control
NTCIP 1211 - SCP	Signal Control Priority	request for right-of-way