

Table of Modifications to Messages. Update to TM2.01, Rev.1.1. Incorporates Event Report Message, harmonization with IT IS Phrase Lists and TMDD Data Elements dated 2/20/01.

Message Id & Name	Level of Modification from TM2.01 Rev. 1.1 , 02/26/99	Specific Changes to Messages
1.1: Roadway-Network Description 1.1.1: Network-Identity	MINOR	1. Added "OPTIONAL" to some data elements
1.1: Roadway-Network Description 1.1.2: Link-Identity	MINOR	1. Added "OPTIONAL" to some data elements
1.1: Roadway-Network Description 1.1.3: Node-Description	MINOR	1. Added "OPTIONAL" to all data elements except node-identifier and lat/long location.
1.1: Roadway-Network Description 1.1.4: Link-Description	MINOR plus 2 data elements changes	1. Added "OPTIONAL" 2. Modified link-direction, link-restriction-weight- axle
1.2: Roadway-Network-Update 1.2.1: Network-Update	MINOR	1. Added "OPTIONAL" 2. Added Section-Identifier (OPTIONAL)
1.2: Roadway-Network-Update 1.2.2: Link-Update	MINOR plus 2 data elements changes	1. Added "OPTIONAL" 2. Modified link-direction, link-restriction-weight- axle
1.2: Roadway-Network-Update 1.2.3: Node-Update	MINOR	1. Added "OPTIONAL"
2.1: Current-Network-State 2.1.1:Link-Set	MINOR	1. Added "OPTIONAL"
2.1: Current-Network-State 2.1.2: Current-Link-Conditions	EXTENSIVE	1. Added "OPTIONAL" 2. Modified link-data-type 3. Changed link-restriction-class from bit-string to enumerated and added
2.1: Current-Network-State 2.1.3: Current-Link-State	MINOR plus 3 data elements changes	1. Added "OPTIONAL" 2. Modified link-data-type, link-delay, link-speed-average 3. Added link-headway
2.1: Current-Network-State 2.1.4: Current-Node-Set	MINOR	1. Added "OPTIONAL"
2.1: Current-Network-State 2.1.5: Current-Node-Conditions	NONE	

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2.2: Predicted-Network-State 2.2.1: Link-Predict	MINOR	1. Added "OPTIONAL"
2.2: Predicted-Network-State 2.2.2: Predicted-Link-Conditions	EXTENSIVE	1. Added "OPTIONAL" 2. Changed link-restriction-class from bit-string to enumerated and changed
2.2: Predicted-Network-State 2.2.3: Predicted-Link-State	MINOR plus 3 data elements changes	1. Added "OPTIONAL" 2. Added predicted-HOV vehicle and violation counts and phase volumes
2.2: Predicted-Network-State 2.2.4: Node-Predict	MINOR	1. Added "OPTIONAL"
2.2: Predicted-Network-State 2.2.5: Predicted-Node-Conditions	MINOR	1. Added "OPTIONAL"
2.3: Roadway-Network-Environment 2.3.1: Current-Roadway-Air- Quality	MINOR plus 2 data elements	1. Added "OPTIONAL" 2. Added data elements air-quality-CO2 and SO2.
2.3: Roadway-Network-Environment 2.3.2: Current-Roadside-Weather	MINOR plus 5 data elements	1. Added "OPTIONAL" 2. Changed valid values to data-surface-status, surface-temperature, visibility, wind-direction, wind-gusts
2.4: Current-Priority-Routes 2.4.1: Current-Emergency-Routes	MINOR	1. Added "OPTIONAL"
2.4: Current-Priority-Routes 2.4.2: Current-CV-Routes	MINOR	1. Added "OPTIONAL"
2.4: Current-Priority-Routes 2.4.3: Current-Transit-Routes	MINOR	1. Added "OPTIONAL"
2.5: Current-Parking-State 2.5.1: Current-Parking-State	MINOR	1. Added "OPTIONAL"

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3.1: Current-Network-Incidents 3.1.1: Incident-Identity	EXTENSIVE	1. Added "OPTIONAL" 2. Changed data element description-type-incident from bit string to enumerated and changed values. Modified values for incident-status, update-type
3.1: Current-Network-Incidents 3.1.2: Incident-Location	MINOR	1. Added "OPTIONAL"
3.1: Current-Network-Incidents 3.1.3: Incident-Description	EXTENSIVE	1. Added "OPTIONAL" 2. For 5 data elements, modified name, changed Data Type from bit string to enumerated and updated the valid values 3. Updated Incident-Details, Pavement-Condition, Weather-Condition, Obstruction
3.1: Current-Network-Incidents 3.1.4: Incident-Timeline	MINOR plus 3 data element	1. Added "OPTIONAL" 2. Added new timeline type DE's to reflect new data elements
3.1: Current-Network-Incidents 3.1.5: Incident-Response	MINOR plus 2 data element	1. Added "OPTIONAL" 2. Modified event response type DEs to reflect new valid value rule and names to Advice-Alternate-Route, Incident-Type-Status
3.2: Planned-Roadway-Events 3.2.1: Event-Identity	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Modified event-description -type-event DE to reflect new valid value rule
3.2: Planned-Roadway-Events 3.2.2: Event-Location	MINOR	1. Added "OPTIONAL"

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3.2: Planned-Roadway-Events 3.2.3: Event-Description	EXTENSIVE	1. Added "OPTIONAL" 2. Added or Modified event description type DE's to reflect inclusion of closures, roadwork, special events, sporting events, disturbances, advice alternate route
3.2: Planned-Roadway-Events 3.2.4: Event-Daily-Timeline	MINOR	1. Added "OPTIONAL"
3.2: Planned-Roadway-Events 3.2.5: Event-Schedule	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Modified timeline schedule type DE to reflect new valid value rule
3.3: Event-Defined-Response 3.3.1: Response-Organization	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Modified event description type DE to reflect new valid value rule
3.3: Event-Defined-Response 3.3.2: Response-Plans	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Modified event response type DE to reflect new valid value rule and name Advice Alternate Route
3.3: Event-Defined-Response 3.3.3: Agency-Response	MINOR	1. Added "OPTIONAL"
3.3: Event-Defined-Response 3.3.4: Device-Response	MINOR	1. Added "OPTIONAL" 2. Added Assigned equipment list
3.4: Network-Incident-Update 3.4.1: Identity-Update	MINOR plus 3 data elements	1. Added "OPTIONAL" 2. Modified event description type DE's to reflect new valid value rules
3.4: Network-Incident-Update 3.4.2: Location-Update	MINOR	1. Added "OPTIONAL"

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3.4: Network-Incident-Update 3.4.3: Description-Update	EXTENSIVE	1. Added "OPTIONAL" 2. Updated Incident-Details, Pavement-Condition, Weather-Condition, Obstruction
3.4: Network-Incident-Update 3.4.4: Timeline-Update	MINOR plus 3 data elements	1. Added "OPTIONAL" 2. Added 3 DE's timeline event times
3.4: Network-Incident-Update 3.4.5: Response-Update	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added 1 DE, response alternate route type
3.5: Roadway-Event-Update 3.5.1: Event-Identity-Update	MINOR plus 1 data elements	1. Added "OPTIONAL" 2. Added 1 DE's description type event
3.5: Roadway-Event-Update 3.5.2: Event-Location-Update	MINOR	1. Added "OPTIONAL"
3.5: Roadway-Event-Update 3.5.3: Event-Description-Update	EXTENSIVE	1. Added "OPTIONAL" 2. Added or Modified event description type DE's to reflect inclusion of closures, roadwork, special events, sporting events, disturbances, advice alternate route
3.5: Roadway-Event-Update 3.5.4: Event-Timeline-Update	NONE	
3.5: Roadway-Event-Update 3.5.5: Event-Schedule-Update	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Reordered valid values for DE days of the week
3.6: Event-Bulletin 3.6.1: Event-Report	NEW, did not exist previously	1. Event-Report message facilitates the dissemination of traffic situation & road condition information

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4.1: Traffic-Status-Request 4.1.1: Network-Event-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added DE description type event
4.1: Traffic-Status-Request 4.1.2: Traffic-Data-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added resource center identifier
4.1: Traffic-Status-Request 4.1.3: Parking-Data-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added resource center identifier
4.1: Traffic-Status-Request 4.1.4: Priority-Route-Data-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added contact suborganization identifier
4.1: Traffic-Status-Request 4.1.5: Video-Surveillance-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added resource center identifier
4.1: Traffic-Status-Request 4.1.6: Environment-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added resource center identifier
4.1: Traffic-Status-Request 4.1.7.1: Field-Device-Status-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added resource center identifier
4.1: Traffic-Status-Request 4.1.7.2: Street-Status-Request	MINOR plus 3 data elements	1. Added "OPTIONAL" 2. Added 3 DE's resource center & device identifiers & device type
4.2: Control-Request 4.2.1: Device-Control-Request	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added DE's resource center identifier
4.2: Control-Request 4.2.1: Street-Control-Request	MINOR plus 2 data elements	1. Added "OPTIONAL" 2. Added DE's resource center identifier and device type

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4.3: Control-Response 4.3.1: Device-Control-Response	MINOR plus 1 data element	1. Added "OPTIONAL" 2. Added DE's resource center identifier
4.3: Control-Response 4.3.2: Street-Control-Response	MINOR plus 2 data elements	1. Added "OPTIONAL" 2. Added DE's resource center identifier and device type
5.1: Field-Device-Status 5.1.1: Ramp-Meter-Status	MINOR plus 1 data element	1. Added "OPTIONAL" except for network & device identifiers, and meter error status 2. Added device operator identifier
5.1: Field-Device-Status 5.1.2: DMS-Device-Status	MINOR	1. Added "OPTIONAL" except for network & device identifiers, and DMS error status
5.1: Field-Device-Status 5.1.3: HAR-Device-Status	MINOR	1. Added "OPTIONAL" except for network & device identifiers, and HAR error status
5.1: Field-Device-Status 5.1.4: CCTV-Device-Status	MINOR	1. Added "OPTIONAL" except for network & device identifiers, and CCTV error status
5.1: Field-Device-Status 5.1.5: Gate-Device-Status	MINOR	1. Added "OPTIONAL" except for network & device identifiers, cycle length, offset time and response state
5.2: Surface-Street-Device-Status 5.2.1: Intersection-Status	MINOR	1. Added "OPTIONAL" except for device identifier, cycle length, offset time and response state
5.2: Surface-Street-Device-Status 5.2.2: Arterial-Status	MINOR plus 4 data elements	1. Added "OPTIONAL" 2. Added identifier DE's, device, controller, device operator 3. Added controller response state

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5.2: Surface-Street-Device-Status 5.2.3:Section-Status	MINOR plus 4 data elements	1. Added "OPTIONAL" 2. Added identifier DE's, device, controller, device operator 3. Added controller response state
6.1: Field-Device-Control 6.1.1: Ramp-Meter-Control	MINOR plus 1 data element	1. Added "OPTIONAL" all elements except network & device identifier. 2. Added DE device operator identifier
6.1: Field-Device-Control 6.1.2: DMS-Device-Control	MINOR plus 1 data element	1. Added "OPTIONAL" all elements except network & device identifier. 2. Added DE device operator identifier
6.1: Field-Device-Control 6.1.3: HAR-Device-Control	MINOR	1. Added "OPTIONAL" all elements except network & device identifier.
6.1: Field-Device-Control 6.1.4: CCTV-Device-Control	MINOR	1. Added "OPTIONAL" all elements except network & device identifier.
6.1: Field-Device-Control 6.1.5: Gate-Device-Control	MINOR	1. Added "OPTIONAL" all elements except network & device identifier.
6.2: Surface-Street-Control 6.2.1: Intersection-Control	MINOR plus 2 data elements	1. Added "OPTIONAL" 2. Added 2 identifier DE's for device and device operator
6.2: Surface-Street-Control 6.2.2:Arterial-Control	MINOR plus 3 data elements	1. Added "OPTIONAL" 2. Added 3 identifier DE's for device, controller and device operator
6.2: Surface-Street-Control 6.2.3: Section-Control	MINOR plus 3 data elements	1. Added "OPTIONAL" 2. Added 3 identifier DE's for device, controller and device operator