


# Relevant Standards Activities

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## Standards for District 8: Springfield Regional Architecture

 **NOTE: The ITS standards presented in this report may represent a superset of options, and in some cases, provide redundant capabilities. In addition, these ITS standards are at different maturity levels. Care should be taken to select the standards that best meet the needs of the region or project.**

| Lead SDO        | Standard Name   | Version | Document ID           |
|-----------------|---|---------|-----------------------|
| AASHTO/ITE      | Traffic Management Data Dictionary (TMDD) and Message Sets for External Traffic Management Center Communications (MS/ETMCC) |         | ITE TMDD              |
| AASHTO/ITE/NEMA | NTCIP Center-to-Center Standards Group  |         | (See Footnote)        |
| AASHTO/ITE/NEMA | NTCIP Center-to-Field Standards Group   |         | (See Footnote)        |
| AASHTO/ITE/NEMA | Global Object Definitions   |         | NTCIP 1201            |
| AASHTO/ITE/NEMA | Object Definitions for Actuated Traffic Signal Controller (ASC) Units   |         | NTCIP 1202            |
| AASHTO/ITE/NEMA | Object Definitions for Dynamic Message Signs (DMS)  |         | NTCIP 1203            |
| AASHTO/ITE/NEMA | Object Definitions for Environmental Sensor Stations (ESS)  |         | NTCIP 1204            |
| AASHTO/ITE/NEMA | Object Definitions for Closed Circuit Television (CCTV) Camera Control  |         | NTCIP 1205            |
| AASHTO/ITE/NEMA | Object Definitions for Closed Circuit Television (CCTV) Switching   |         | NTCIP 1208            |
| AASHTO/ITE/NEMA | Data Element Definitions for Transportation Sensor Systems (TSS)  |         | NTCIP 1209            |
| AASHTO/ITE/NEMA | Field Management Stations (FMS) - Part 1: Object Definitions for Signal System Masters                                      |         | NTCIP 1210            |
| AASHTO/ITE/NEMA | Object Definitions for Signal Control and Prioritization (SCP)  |         | NTCIP 1211            |
| AASHTO/ITE/NEMA | Object Definitions for Conflict Monitor Units (CMU)   |         | NTCIP 1214            |
| APTA            | Standard for Transit Communications Interface Profiles  |         | APTA TCIP-S-001 3.0.3 |
| ASTM            | Standard Practice for Metadata to Support Archived Data Management Systems  |         | ASTM E2468-05         |
| ASTM            | Standard Specifications for Archiving ITS-Generated Traffic Monitoring Data   |         | ASTM E2665-08         |

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|-----------------|---|----------------|-----------------------|
| <b>IEEE</b>     | <b>Incident Management Standards Group</b>  |                | <b>(See Footnote)</b> |
| <b>SAE</b>      | <b>Advanced Traveler Information Systems (ATIS)<br/>General Use Standards Group</b> |                | <b>(See Footnote)</b> |

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| <b>Footnotes:</b>   |   |                |                    |
| <b>Advanced Traveler Information Systems (ATIS) General Use Standards Group</b> |   |                |                    |
| <b>SDO</b>  | <b>Standard Name</b>  |                | <b>Document ID</b> |
| SAE   | Location Referencing Message Specification (LRMS)   |                | SAE J2266          |
| SAE   | Message Set for Advanced Traveler Information System (ATIS)   |                | SAE J2354          |
| SAE   | Messages for Handling Strings and Look-Up Tables in ATIS Standards  |                | SAE J2540          |
| SAE   | RDS (Radio Data System) Phrase Lists  |                | SAE J2540/1        |
| SAE   | ITIS (International Traveler Information Systems) Phrase Lists  |                | SAE J2540/2        |
| SAE   | National Names Phrase List  |                | SAE J2540/3        |
| <b>Incident Management Standards Group</b>                                      |   |                |                    |
| <b>SDO</b>  | <b>Standard Name</b>  |                | <b>Document ID</b> |
| IEEE  | Standard for Common Incident Management Message Sets for use by Emergency Management Centers                |                | IEEE 1512 -2006    |
| IEEE  | Standard for Traffic Incident Management Message Sets for Use by Emergency Management Centers               |                | IEEE 1512.1-2006   |
| IEEE  | Standard for Public Safety Traffic Incident Management Message Sets for Use by Emergency Management Centers |                | IEEE 1512.2-2004   |
| IEEE  | Standard for Hazardous Material Incident Management Message Sets for Use by Emergency Management Centers    |                | IEEE 1512.3-2006   |
| IEEE  | Standard for Common Traffic Incident Management Message Sets for Use in Entities External to Centers        |                | IEEE P1512.4       |
| <b>NTCIP Center-to-Center Standards Group</b>                                   |   |                |                    |
| <b>SDO</b>  | <b>Standard Name</b>  |                | <b>Document ID</b> |
| AASHTO/ITE/NEMA   | Octet Encoding Rules (OER) Base Protocol  |                | NTCIP 1102         |
| AASHTO/ITE/NEMA   | Center-to-Center Naming Convention Specification  |                | NTCIP 1104         |
| AASHTO/ITE/NEMA   | Ethernet Subnetwork Profile   |                | NTCIP 2104         |
| AASHTO/ITE/NEMA   | Internet (TCP/IP and UDP/IP) Transport Profile  |                | NTCIP 2202         |
| AASHTO/ITE/NEMA   | File Transfer Protocol (FTP) Application Profile  |                | NTCIP 2303         |
| AASHTO/ITE/NEMA   | Application Profile for DATEX-ASN (AP-DATEX)  |                | NTCIP 2304         |
| AASHTO/ITE/NEMA   | Application Profile for XML Message Encoding and Transport in ITS Center-to-Center Communications (C2C XML) |                | NTCIP 2306         |
| <b>NTCIP Center-to-Field Standards Group</b>                                    |   |                |                    |
| <b>SDO</b>  | <b>Standard Name</b>  |                | <b>Document ID</b> |
| AASHTO/ITE/NEMA   | Octet Encoding Rules (OER) Base Protocol  |                | NTCIP 1102         |
| AASHTO/ITE/NEMA   | Transportation Management Protocols (TMP)   |                | NTCIP 1103         |
| AASHTO/ITE/NEMA   | Point to Multi-Point Protocol Using RS-232 Subnetwork Profile   |                | NTCIP 2101         |
| AASHTO/ITE/NEMA   | Point to Multi-Point Protocol Using FSK Modem Subnetwork Profile  |                | NTCIP 2102         |
| AASHTO/ITE/NEMA   | Point-to-Point Protocol Over RS-232 Subnetwork Profile  |                | NTCIP 2103         |
| AASHTO/ITE/NEMA   | Ethernet Subnetwork Profile   |                | NTCIP 2104         |
| AASHTO/ITE/NEMA   | Transportation Transport Profile  |                | NTCIP 2201         |

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| <b>NTCIP Center-to-Field Standards Group</b> |   |                |                    |
| <b>SDO</b>                                   | <b>Standard Name</b>  |                | <b>Document ID</b> |
| AASHTO/ITE/NEMA                              | Internet (TCP/IP and UDP/IP) Transport Profile                        |                | NTCIP 2202         |
| AASHTO/ITE/NEMA                              | Simple Transportation Management Framework (STMF) Application Profile |                | NTCIP 2301         |
| AASHTO/ITE/NEMA                              | Trivial File Transfer Protocol (TFTP) Application Profile             |                | NTCIP 2302         |
| AASHTO/ITE/NEMA                              | File Transfer Protocol (FTP) Application Profile                      |                | NTCIP 2303         |