Benefits

1512 Reduces traffic incident clearance time:
   And so:
   - Reduces congestion
   - Reduces secondary collisions
   - Improves air quality
   - Improves safety for travelers and emergency personnel at incident scenes

1512 does that by:
   - Enabling improved interagency coordination among public safety and transportation management agencies
   - Enabling more rapid dispatching
   - Enabling more effective coordination of response vehicles and personnel

Overview

Organized in 1992, the IEEE Standards Coordinating Committee (SCC) 32 is responsible for coordinating, developing, and maintaining standards, recommended practices, and guidelines related to ITS. The SCC32 work includes efforts under a cooperative agreement between USDOT and IEEE to expedite development of standards, including standards for ITS data dictionaries, the Message Set Template, and the message sets for incident management discussed here.

More information about IEEE SCC32 Incident Management can be found at http://grouper.ieee.org/groups/scc32/imwg/index.html

United States Department of Transportation

IEEE
445 Hoes Lane
Piscataway NJ 08855 USA
www.ieee.org
Intelligent Transportation Systems

With the increase of travel throughout the United States, Intelligent Transportation Systems (ITS) are vital to ensuring safety, protecting the environment and relieving traffic congestion. To guarantee the smooth operation of ITS, standardization of a common method for ITS components to communicate with one another is key.

The United States Department of Transportation (USDOT) sponsors accelerated development of many ITS standards through the use of recognized standards development organizations, among them the Institute of Electrical and Electronics Engineers (IEEE).

IEEE 1512 Standards

Incident management represents a major element of the ITS infrastructure. Working in cooperation with the USDOT, the IEEE is developing a family of message set standards—known as 1512—that enables the sharing of incident management messages among different ITS systems and public safety entities. The 1512 family of standards is on a short list of standards identified by the USDOT as critical for the ITS infrastructure.

IEEE 1512-2000

IEEE 1512-2000, Standard for Common Incident Management Message Sets for use by Emergency Management Centers, is the base standard for incident management message sets. Providing incident management message sets common to traffic management, public safety and hazardous materials incident response activities, it supports communications among:

- Multi-Modal Transportation Management Centers
- Public Safety Agencies
- Fleet and Freight Management Centers
- Information Service Providers
- Traffic Management Centers

IEEE 1512 Volumes in Progress

Companion volumes are currently being developed in four areas:

Traffic Management: Traffic management message sets for use by transportation and public safety agencies in transportation incident management.

Public Safety: Message sets for interagency coordination, dispatching and asset management for use by transportation and public safety agencies in transportation incident management.

Hazardous Materials: Message sets for communications dealing with management of hazardous materials during a transportation incident.

Data Dictionary: A data dictionary of the data elements and structures used in the 1512 family of standards.