

AASHTO, ITE, and NEMA RELEASE FIVE NEW NTCIP STANDARDS

Rosslyn, Va., June 14, 2001 – AASHTO, ITE, and NEMA have jointly released NTCIP 1401:2000, *Standard on Common Public Transportation (CPT) Objects*; NTCIP 1402:2000, *Standard on Incident Management (IM) Objects*; NTCIP 1403:2000, *Standard on Passenger Information (PI) Objects*; NTCIP 1404:2000, *Standard on Scheduling/Runcutting (SCH) Objects*; and NTCIP 1405:2000, *Standard on Spatial Representation (SP) Objects*.

AASHTO is the American Association of State Highway and Transportation Officials; ITE is the Institute of Transportation Engineers; and NEMA is the National Electrical Manufacturers Association. Since 1996, these three organizations have been jointly developing the National Transportation Communications for ITS Protocol. The NTCIP is a family of communication protocols for traffic management devices.

NTCIP 1401:2000 is a common public transportation object. It supports all business areas with a set of core data elements and messages.

NTCIP 1402:2000 is an incident management domain that covers the data needs related to detecting, verifying, prioritizing, responding to, and clearing unplanned events (i.e., accidents, weather conditions, crimes, etc.) that effect transit operations.

NTCIP 1403:2000 is the passenger information domain that covers the data needs related to providing passengers and potential passengers with the information for planning and making trips using public transportation services.

NTCIP 1404:2000 is a scheduling domain that covers the data needs of the functions related to scheduling and runcutting.

NTCIP 1405:2000 is a spatial reference that represents the location of fixed and mobile objects.

Dr. Isaak Takyi, the TCIP Technical Working Group Chair, said, “The official release of the five Transit Communication Interface Profiles (TCIP) object standards in Common Public Transportation, Incident Management, Passenger Information,



Scheduling/Runcutting, and Spatial Representation is welcome news. Transit agencies will now have the opportunity to specify and use the data elements and message sets with confidence and optimism. As more operators and vendors use these standards to implement Intelligent Transportation Systems, the transit industry will be moving an inch closer to system compatibility, data interoperability, and sustainable cost-efficiency in operations.”

NTCIP 1401:2000’s main application is the data and data concepts that describe the set of infrastructure (fixed and rolling) data such as vehicles, employees, facilities, and assets.

NTCIP 1402:2000’s main application is production of all data needed to identify the date, time, and location of events, the source of the information about the event, codes for indicating the type and severity of the incident, detour information, and emergency response team dispatching.

NTCIP 1403:2000’s main application is the input of data associated with traveler preferences (departure time, arrival time, mode, cost, etc.), estimated time of arrival, published schedules, and other types of information related to scheduled and actual transit services.

NTCIP 1404:2000’s main application is the input of data needed to develop the master schedule, trip sheet, run guides, paddles, inventory files, and other supplemental information.

NTCIP 1405:2000’s main application is to provide a vocabulary and format for representing common attributes for referencing objects in space.

The prices of the individual standards are as follows:

- NTCIP 1401:2000 \$88
- NTCIP 1402:2000 \$88
- NTCIP 1403:2000 \$78
- NTCIP 1404:2000 \$78
- NTCIP 1405:2000 \$78

Contact the AASHTO Publications Bookstore at 800-231-3475, or on the Internet at <http://www.aashto.org>.

Contact the ITE Bookstore at 202-289-0222 ext. 130 (international), 202-289-7722 (fax), or on the Internet at <http://www.ite.org>.

NEMA's document sales are through Global Engineering Documents. Contact Global at 800-854-7179 (within the U.S.), 303-397-7956 (international), 303-397-2740 (fax), or on the Internet at <http://www.global.ihs.com>.

Founded in 1914, AASHTO serves its Member Departments, the U.S. Department of Transportation and the Congress, by providing leadership, technical services, information and advice as well as by contributing to national policy on transportation issues. AASHTO is headquartered in Washington, D.C.

ITE is an international individual member educational and scientific association, and is one of the largest and fastest-growing multimodal professional transportation organizations in the world. Founded in 1930, the Institute is headquartered in Washington, D.C.

NEMA, celebrating its 75th anniversary, is the leading trade association in the United States representing the interests of electroindustry manufacturers. Founded in 1926 and headquartered near Washington, D.C., its 450 member companies manufacture products used in the generation, transmission and distribution, control, and end-use of electricity. Annual shipments of these products total \$100 billion.

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