Notice of Intent to Adopt

Institute of Transportation Engineers ITS Standard

National Transportation Communications for ITS Protocols (NTCIP)
NTCIP 1103, Transportation Management Protocols
NTCIP 1104, Center-to-Center Naming Convention
NTCIP 8004, Structure and Identification of Management Information (SMI)

The final draft version of the National Transportation Communications for ITS Protocols (NTCIP)
NTCIP 1103, Transportation Management Protocols
NTCIP 1104, Center-to-Center Naming Convention
NTCIP 8004, Structure and Identification of Management Information (SMI)
have been approved by the joint ITE, AASHTO and NEMA Committee on the NTCIP. The Institute of Transportation Engineers intends to adopt these versions of the above mentioned standards as of August 31, 2005 assuming no final appeals are received. Please check the ITE website (www.ite.org) for a notice after August 31, 2005 as to whether these versions of the Standards have been adopted by ITE. When adopted this standard will be jointly published by ITE, NEMA and AASHTO.

NTCIP 1103, Transportation Management Protocols

The NTCIP 1103 defines a composite, application-layer protocol for the management of transportation equipment. The composite protocol consists of three component protocols: (1) the Internet-standard Simple Network Management Protocol (SNMP), (2) the Simple Fixed Message Protocol (SFMP), and (3) the Simple Transportation Management Protocol (STMP). These three protocols are concerned with the procedures for exchanging information as well as the format in which the information is exchanged.

NTCIP 1103 is one of the three standards that resulted from subdividing NTCIP 1101. The other two "modular" parts coming out of 1101 are the NTCIP 1102 "OER" and 8004 "SMI."

As balloted in January 2005, this standard has been reviewed and has been approved by the NTCIP Joint Committee.

NTCIP 1104, Center-to-Center Naming Convention

The NTCIP 1104 lists the requirements for establishing names for management systems, and for the objects managed by those systems, in both CORBA and non-CORBA center-to-center communications. The term "object" is loosely used to include not only physical equipment -- such as ramp meter controllers and portable message signs -- but also other data categories about which centers might desire to exchange information, such as incidents, as well as other data classes within the center.

CORBA or Common Object Request Broker Architecture is a language-independent object model and specification for a distributed applications development environment.

NTCIP 1104 specifies requirements for compliant traffic management centers to obtain and maintain a Center Domain Name, and ensure that it is globally unique, and to also organize their C2C Object Names into a hierarchy like a file system tree.

As mail balloted on January 13, 2005, this standard has been reviewed and has been approved by the NTCIP Joint Committee.

NTCIP 8004, Structure and Identification of Management Information (SMI)

NTCIP 8004 defines the rules and procedures for how the NTCIP device data dictionaries and their objects are constructed. Included are how to organize and describe transportation management data so the device equipment and the management applications can interoperate. NTCIP 8004 is based on an Internet standard (IAB STD 16) with a similar title.

In a "message meta-model" figure, NTCIP 8004 explains the relationship among many of the terms that are used with NTCIP and other ITS data, such as: data frame, block object, dynamic object, and message.

NTCIP 8004 also defines the Management Information Base (MIB) object status conditions of mandatory, optional, deprecated, and obsolete; and sets the rules for creating extensions to, and new versions of, the MIBs.

As balloted on March 17-18, 2005 in Annapolis, MD, this standard has been reviewed and approved by the NTCIP Joint Committee.

Effective Date of the Standards:

The effective date of this action to adopt these standards as an ITE standards is August 31, 2005 close of business, unless an appeal is received.

How to View the Draft Standards:

Between now August 31, 2005 the final draft version of the standards can be viewed at the NTCIP website (www.ntcip.org) in the library section. If no appeals are filed, the ITE International Board of Direction will ballot the standard and it will be available for purchase from ITE.

How to File an Appeal:

If you wish to appeal the adoption of NTCIP 1103, 1104, submit a written appeal to ITE Headquarters (1099 14th St. NW Suite 300 West, Washington, D.C. 20005, Attn: Shelley Row) by the close of business on August 31, 2005. The written appeal shall state the nature of the objection(s) including any adverse effects, the step(s) of the ITE procedures or the section(s) of the standard that are at issue, and the specific remedial action(s) that

would satisfy the appellant's concerns. Any previous efforts to resolve the objection(s) and the outcome of each shall also be noted.

If an Appeal is Received by ITE:

ITE Headquarters will work with the NTCIP joint committee chair to develop a response. Within 30 days after receipt of the appeal, ITE Headquarters shall respond in writing to the appellant, specifically addressing each allegation of fact in the appeal to the extent possible.

If an appeal is not able to be resolved informally in a manner consistent with the ITE procedures, ITE Headquarters shall initiate the process for the appointment of an Appeals Panel and will schedule a hearing.

If the timeframe for the above actions will extend beyond August 31, 2005, another notice shall be provided announcing a delay in the anticipated date of adoption by ITE.