



U.S. Department of
Transportation



Intelligent Transportation Systems Standards Fact Sheet

NTCIP 1404

August 2002

Transit Communications Interface Profiles (TCIP) Scheduling and Runcutting Business Area Standard

Overview

The Transit Communications Interface Profiles (TCIP) is a family of standards that specifies the rules and terms for the automated exchange of information in transit applications such as operations, maintenance, planning, management, and customer services. TCIP standards define the information and information-transfer requirements among public transportation vehicles (PTVs), transit management centers (TrMCs), other transit facilities, and ITS centers. TCIP standards also identify mechanical and electrical interfaces (physical layer) and methods for ensuring data integrity (data-link layer), specify required message sets, and provide a common set of conformance requirements.

This standard, **NTCIP 1404, TCIP Scheduling and Runcutting Business Area Standard**, defines scheduling and runcutting data elements (called “objects”) of the TCIP. It covers the data needs of functions related to scheduling and runcutting, including data needed to develop schedules, trip sheets, run guides, inventory files, and other scheduling products. It also includes data elements for various systems and information services, such as transit garage management and control, on-board information, and transit customer information systems. In addition, data elements for incident and traffic management, paratransit, roadside devices, and operating performance history are included in this business area standard.

What is this standard for?

The scheduling and runcutting business area standard allows real-time information on schedules and transit infrastructure to be provided to information service providers (ISPs), traffic management centers (TMCs), remote traveler support (RTS) kiosks, intermodal transportation service providers, and other transit management systems. It allows the runcutting business area to receive information from TMCs, transit vehicles, parking management systems (PMS), and intermodal transportation service providers, among others.

Who uses it?

This standard is intended for use by transit managers, software vendors and procurement personnel involved in the specification, selection, procurement, installation, operation, or maintenance of electronic transit scheduling and runcutting applications. In addition, ISPs will use this standard for a variety of traveler information services.

How is it used?

This standard is used in conjunction with the TCIP Framework Standard (NTCIP 1400) and with other TCIP business area standards. The Framework Standard organizes the information and data transfer requirements among public transportation vehicles, transit management centers, transit facilities, and other ITS centers. It also identifies physical and data link requirements, develops required message sets, and establishes liaison between the Institute of Transportation Engineers (ITE) and other standards development organizations (SDOs).

Related documents

ISO/IEC 8824: 1994 – Abstract Syntax Notation One (ASN.1)

The NTCIP family of standards is a joint project of the following standards development organizations:

American Association of State Highway and Transportation Officials (AASHTO)

Institute of Transportation Engineers (ITE)

National Electrical Manufacturers Association (NEMA)

(Contact information is shown at the end of this fact sheet)

To obtain a copy of this standard, please contact:

Global Engineering Documents

Web site: <http://global.ihs.com>

Publication Date: December 2000

IEEE Std 1488-2000 – Trial Use Standard for Message Set Template for Intelligent Transportation Systems

IEEE Std 1489-1999 – Standard for Data Dictionaries for Intelligent Transportation Systems

NTCIP 1400 -- Transit Communications Interface Profiles (TCIP) Framework Standard

NTCIP 1401 -- Transit Communications Interface Profiles (TCIP) Common Public Transportation (CPT) Objects

NTCIP 1405 -- Transit Communications Interface Profiles (TCIP) Spatial Representation (SP) Business Area Standard

NTCIP-1407 -- Transit Communications Interface Profiles (TCIP) Control Center (CC) Objects

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