

# Advanced Transportation Controller (ATC) Standards Memo M0001

*from the Joint AASHTO / ITE / NEMA Committee on the ATC*

**DATE:** December 30, 2002

**TO:** AASHTO, ITE AND NEMA

**SUBJECT:** User Comment Draft of *Intelligent Transportation System (ITS) Standard Specification for Roadside Cabinet (ITS Cabinet)*,

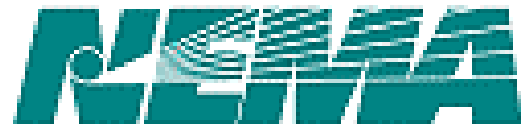
**ACTION:** Request for Distribution to Solicit User Comments

RECOMMENDATION. This Memorandum reports that the Joint Committee on the ATC accepted the proposed *Intelligent Transportation System (ITS) Standard Specification for Roadside Cabinet (ITS Cabinet)*, as a User Comment Draft, and recommended to AASHTO, ITE and NEMA that the draft be distributed to solicit user comments. The recommendation was made at the regular Joint Committee meeting in Houston, Texas on December 12, 2002, and was approved by a majority of the committee members present.

The Joint Committee on the ATC contributes to the joint standards development process by accepting a proposed draft document at two stages in its development-first as a User Comment Draft and then again as a Recommended Standard.

BACKGROUND. This document was developed to be a Joint AASHTO / ITE / NEMA Standards Publication, part of the ATC family of standards. The purpose of this document is to define the standard specification for a variety of Intelligent Transportation System (ITS) enclosures.

The Advanced Transportation Controller (ATC) is being developed to provide an open architecture hardware and software platform for a wide variety of ITS applications. In this context, the words "open architecture" mean that the system will include both public and private sector developers, and have modular software cooperatively running on standardized and shared modular hardware platforms. This will provide cost-effective ITS functionality for a wide variety of applications. To accomplish this goal the system needs to provide the maximum flexibility for many different system configurations and installations.



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The general concept and model for the ATC is the PC Computer. However, the ATC will be a field-hardened, general-purpose computer for embedded applications, which with the appropriate software and hardware modules, could be asked to perform many different duties.

The ATC standards development committee has focused initially on the application oriented to traffic control: traffic signal control, ramp control; traffic surveillance; lane use signals; field masters; general ITS beacons; lane control; and access control. As a result, the modular structure focuses on providing rack space, power management, and serial buses for the classic traffic control input devices, load switching, and cabinet monitoring to ensure that the ITS cabinet is consistent with past practices. In addition, the serial control and monitoring bus arrangement is modular in nature and will support the development of additional special function oriented assemblies to support other ITS functions.

This Standard was developed by the ATC Cabinet Working Group, now chaired by Ron Johnson (Safetran) and Brian Van De Walle (Texas DOT). The Working Group has 17 members from the public and private sectors.

An electronic copy of this User Comment Draft is available in the Forums area of the NEMA Website. To access the site follow the instruction below:

[www.nema.org](http://www.nema.org)

Go to: **Standards**  
Go to: **Forums**  
Go to: **Advanced Transportation Controller**  
Sign in as: **GUEST** (without posting rights) or **USER** (sign up for posting rights)  
Go to: **Cabinet WG -- Public**  
Go to: **ITS Cabinet Standard 112702 Full Document**

**USER COMMENT INSTRUCTIONS.** People who receive this request for comments are asked to follow these instructions.

1. Refer this Standards MEMO and the draft document to the person or persons in your organization who are most familiar with, and concerned about, traffic management and traffic control equipment and any of the other applications that the cabinet specification addresses. Also refer this MEMO to anyone involved in design, deployment, or operation and maintenance of traffic management and control systems, including any consultants they may use.

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2. Review any portion, or all of the user comment draft. Any comments, however general or specific, will be appreciated.

3. Email, mail or fax (in order of preference) your comments to:

Email [jcheeks@ite.org](mailto:jcheeks@ite.org)  
**James M. Cheeks, Jr.**  
**Standard Development Manager**  
**Institute of Transportation Engineers**  
**1099 14th. St. NW, Suite 300 West**  
**Washington, DC 20005**  
**Fax. 202-289-7722**

4. List each of your comments in the following four-part format:

**Document:** ATC ITS Cabinet v01.02.10

**Page:**

**Paragraph or item:**

**Comment:**

5. Please respond by the end of the comment period as instructed by your standards organization. For ITE the comment period for this MEMO will close on February 15, 2003. Comments received after the closing date will be accepted, but they may not be included in the next version of the document. Please include your name and mailing address so that your comments can be acknowledged.

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