## **Intelligent Transportation System**

Architecture Development

# **Standards and Protocols Catalog** Special Studies Standards Task



U.S. Department of Transportation

Federal Highway Administration





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March 1, 1995

Dear ITS Standards Catalog Recipient,

I am pleased to share with you this first edition of the ITS Standards Catalog, an important step in the understanding and planning of standards and protocols for the ITS industry. This edition was prepared by Robert Barrett of the Jet Propulsion Laboratory under contract to the FHWA, with the consultation and cooperation of the ITS America Committee on Standards & Protocols, the Advanced Public Transport Systems (APTS) Committee, and the Advanced Traffic Management Systems (ATMS) Committee.

This first edition focuses primarily on the ITS-related standards that already exist, and as you will see, it is an impressive and broad based collection. The catalog should provide guidance to the ITS industry on existing standards relevant to the development of ITS products and services. The next stage of catalog development is to expand its purview to include work on standards that are in-process or that are perceived as needed but not yet being addressed.

In addition, the content of the catalog is being made available on the International ITS Information Clearinghouse operated by ITS America.

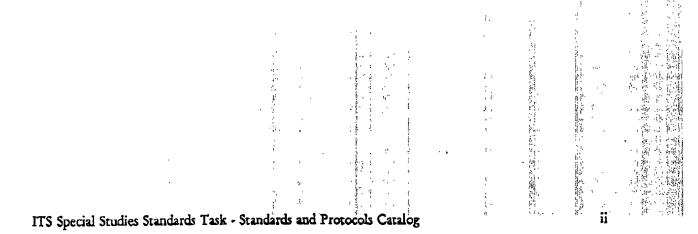
I invite your comments, corrections, and suggestions for its refinement, expansion and improvement. Its primary objective always is to be of service to the ITS industry.

Richard J. Weiland, Chairman ITS America Standards & Protocols Committee

## CONTENTS

Overview iii
Catalog Development
Input Formix
Catalog Data - APPLICATIONS 1
Architecture 1
Automated Vehicle Control 6
Automated Vehicle Location    7
Banking
c v o 10
Communications 11
Computers
Container, Vehicle Id. 41
Country Codes
Data Communications 43
Data Input
Data Interchange   45
Database Queries 50
Digital Maps 51
ETTM
Electronic Toll Collection 55
Equipment Design 56
Human Factors    58
Interface
Multimodal Freight 64
Navigation 65
Operating System
Packet Switching
Parallel Data Transfer
Programming
Quality
Quality Assurance
Safety

Security
Sensors
Serial Data Transfer
Television
Terminal User Inteface
Traffic Control
Traveler Information
Vehicle Area Network
Vehicle Data Interface
Vehicle Identification
Vehicles
Weather Data
Weigh In Motion



#### Overview

The Federal Highway Administration (FHWA), U. S. Department of Transportation (USDOT), tasked the Jet Propulsion Laboratory (JPL) to act as the Architecture Manager for the development of the Intelligent Transportation System (ITS) Architecture. JPL identified a Standards Task, which recognizes the importance of standards that will permit rapid emergence of the many user services that make up ITS. FHWA also recognized that appropriate standards facilitate an open system architecture, maximizing competition for a spectrum of products.

With more than 350 standards developing organizations (SDOs) in the United States, FHWA and JPL recognized that system developers and designers could use assistance in identifying specific standards and protocols for the ITS and its components. This problem identification led to a task to develop an ITS Catalog of Standards and Protocols. At the same time Intelligent Transportation Society of America's (ITS-AMERICA) Standards and Protocol Committee was forming a Standards and Protocols Catalog Task Force with similar goals in mind. A single catalog is being developed to satisfy both the FHWA's and ITS-AMERICA's needs.

The catalog will serve two primary functions:

- It will serve as the overall guide for exploring standards requirements and the coordination of standards development by standards developing organizations.
- It will provide an easily accessible summary of ITS standards and protocol status, which tracks each needed standard through the various stages of development.

The catalog, which will clearly evolve over time, will contain both technology standards and interface protocols. Drafts of the catalog will be made available to the community for comment and further contribution.

Early in the development of the catalog it was decided to include existing standards and protocols, developing (draft) standards and protocols, and newly identified (proposed) standards and protocols being developed over the next five years. At the same time it was determined that the various committees and subcommittees of ITS-AMERICA would be an excellent source of information for the standards and protocols believed necessary. The response from ITS-AMERICA committees and subcommittees represents more than 75 percent of the standards and protocols identified in the catalog.

**Standards** and protocols needed to support a nationwide ITS will continue to be identified and developed as the ITS architecture and design progress.

#### REVISION "A" CHANGES TO CATALOG

The catalog content grew by more than 75 percent, from 153 entries to 268 entries, from the first to this second version. Significant additions to the content include:

Inputs from ITS-America Advance Public Transportation Committee,

Inputs from ITS-America Safety and Human Factors Committee,

Inclusion of International Standards Organization Technical Committee 204, Traffic Information and Control Systems (IS0 TC-204, TICS) new work and proposed work items, and

Inclusion of uniquely identified **standards** and protocols from the Phase I Architecture Development Final Report by the four development teams.

Mechanical changes to the catalog include:

Increasing the size of the title field of the database to allow the full title of the standard or protocol to be provided,

Increasing the size of the abstract field of the database to allow a more complete explanation of the standard or protocol, and

Filling the abstract field of the database where ever possible with a description of the standard.

#### ACKNOWLEDGEMENTS

The author would like to thank the **following** ITS-AMERICA Committees, and their members, for providing the inputs to this second version of the catalog:

Advanced Public Transportation Systems (ARTS) Committee,

Control Systems and Systems Interface Subcommittee, Advanced Traffic Management Systems (ATMS) Committee, and

Safety and Human Factors Committee.

#### ADDITIONAL INFORMATION

Additions and/or corrections to the catalog are requested. The input form (see page ix) should be used as a guide for the additions. Please forward all corrections and additions to:

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ITS Special Studies Standards Task - Standards and Protocols Catalog

#### **Catalog Development**

The need behind an ITS Standards and Protocols catalog is simply to develop a repository for identified and needed standards and protocols. Expansion of the requirement led to the belief that **a** catalog user might have many different needs for viewing or recalling the data, for example by developing organization, by application or by service group (Advanced Traveler Information System [ATIS]). Databases allow one to sort and display information or records by various fields **to** meet the users needs.

#### CATALOG ACTIVITIES

A Standards and Protocol Catalog Task Force meeting, as part of the ITS-America activities, was held during the Transportation Review Board meeting, January 1994, in Washington, D.C. Invitations were sent to a number of interested parties. During the meeting of the Task Force the content and scope of the catalog was agreed to, as was the general plan to provide inputs to the catalog. Additionally concurrence was received on the plan to solicit standards and protocols information from the many ITS-America committees and subcommittees. The results of these activities are included herein.

Future activities for the catalog include:

Addition of a cross reference field to identify common standards issued by both national and international groups.

"Filling" the abstract field.

Follow-up solicitation of Standards and Protocols information from the ITS-America committees, subcommittees and task forces (January 1995).

Solicitation of Standards and Protocols information from the Standards Developing Organizations currently supporting ITS-America (February 1995).

Solicitation of Standards and Protocols information from the International Standards Organization Technical Committee 204, Transport Information and Control Systems, (ISO TC204, TICS) Technical Advisory Group (TAG) and Working Advisory Groups (WAGS) (February 1995).

Meeting of the ITS-America Standards and Protocols Task Force with TRB activities (January 1995).

Update and submit the catalog on a quarterly basis (April 1995, July 1995).

#### CATALOG REPORT ORGANIZATION

The nature of a relational database, such as is being used to compile the catalog, allows one to sort on any field in the database, a combination of fields, and information within one or more of the fields in structuring the report. This results in a great number of possibilities for the organization of a report, many of which would be of limited use. This report on the Standards and Protocol Catalog is organized by application and status.

#### SERVICE GROUPS

For the purpose of this version of the catalog ITS User Services are grouped under headings as follows:

SERVICE GROUP	<u>USER SERVICE</u>
Advanced Traffic Information	Pre-Trip Travel Information
Systems (ATIS)	En-Route Driver Information
	Route Guidance
	Ride Matching and Reservation
	Traveler Services Information
Advanced Traffic Management	Traffic Control
Systems (ATMS)	Incident Management
	Travel Demand Management
	Emergency Notification and Personal Security
	Emergency Vehicle Management
Advanced Public Transportation	Public Transportation Management
Systems (APTS)	En-route Transit Information
	Personalized Public Transit
	Public Travel Security
Electronic Toll Collection (ETC)	Electronic Payment Services
Commercial Vehicle Operations	Commercial Vehicle Electronic Clearance
(CVO)	Automated Roadside Safety Inspection
$(\circ,\circ)$	On-board Safety Monitoring
	Commercial Vehicle Administrative Processes
	Hazardous Material Incident Report
	Commercial Fleet Management

Advanced Vehicle Safety Systems

Longitudinal Collision Avoidance Lateral Collision Avoidance Intersection Collision Avoidance Vision Enhancement for Crash Avoidance Safety Readiness Pre-Crash Restraint Deployment Automated Highway System

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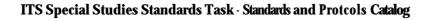
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Advanced Rural Transportation Systems (ARTS)

See ATIS



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## **Input Form**

Information is required on each standard and protocol identified for inclusion with in the catalog. Specifically, the minimum information required is shown below, as extracted from the input form for the catalog and ordered to agree with the output report:

Application:	Current appli	Current application of the standard.		
Number:	Identification organizations.	dentification number established by standard developing rganizations.		
Organization:	Organization	Organization publishing the standard or protocol.		
Title:				
Abstract:	Brief synopsis of standard.			
Projected Use:	ITS application.			
Service Group:	Service bundles in which it is expected the standard will be used.			
Status:	Current status of the standard.			
Estimated Comple	<b>Estimated Completion Date:</b> Scheduled completion date for draft and proposed standards and protocols			

## Intelligent Transportation System

## STANDARDS AND PROTOCOL CATALOG

## Revision A

NUMBER :	ANSI D20.1			
ORGANKATION :	American National Standards Institute			
TITLE :	State's Model Motorist Data Base: Data Element Dictionary			
ABSTRACT :				
PROJECTED USE :	Architecture			
SERVICE GROUP :	All			
STATUS :	Approved	EST-COMP DATE : Com	plete	
NUMBER :	Circular 412			
ORGANKATION :	Transportation Research Board			
TITLE :	Intelligent Vehicle-Highway System (IVHS	) Primer		
ABSTRACT :	The primer is a dictionary of IVHS terms and acronyms and a conpendium of IVHS operation and test systems. Additionally provides information on system and component design.			
PROJECTED USE :	Architecture			
SERVICE GROUP :	All			
STATUS :	Approved	EST-COMP DATE : Com	plete	
NUMBER :	J1760			
ORGANKATION :	Society of Automotive Engineers			
TITLE :	Information Report (IR) - Compendium of Emerging IVHS Technologies			
ABSTRACT :	An introduction to existing IVHS/ITS equipments and components currently under development or being marketed. Includes descriptions of ITS systems such as route guidance.			
PROJECTED USE :	Architecture			
SERVICE GROUP :	All			
Thursday, December	15,1994 Page 1			

STATUS :	Draft	EST-COMP DATE : Dec 1995
NUMBER :	J1761	
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Recommended Practice (RP) TICS System	n Architecture, Terms and Definitions.
ABSTRACT :	A dictionary of terms and definitions from efforts in ITS.	US and international (TICS/ IS0 TC204)
PROJECTED USE	Architecture	
SERVICE GROUP	: All	
STATUS :	Draft	EST-COMP DATE : Dec 1995
NUMBER :	J1762	
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Recommended Practice Standards for Sy	stem Architecture Documentation.
ABSTRACT :	A "How to" on documenting system archite	ecture.
PROJECTED USE	Architecture	
SERVICE GROUP	: All	
STATUS :	Draft	EST-COMP DATE : Dec 1995
NUMBER :	J1763	
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Information Report - A Conceptual IVHS A	rchitecture: an ATIS Perspective.
ABSTRACT :	An overview conceptual framework for ITS communications.	S Architecture and Protocols. Emphasis on
PROJECTED USE :	IVHS Information	
SERVICE GROUP :		
STATUS :	Proposed	EST-COMP DATE : Sep 1994
NUMBER :	NP1 .1	
ORGANIZATION :	International Standards Organization	

ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG1 Architecture, proposed effort.		
PROJECTED USE :	Architecture		
SERVICE GROUP :	All		
STATUS :	Proposed	EST-COMP DATE : 1997	
NUMBER :	NP1.2		
ORGANKATION :	International Standards Organization	1	
TITLE :	Reference Model Architecture.		
ABSTRACT :	IS0 Technical Committee TC204, T Architecture, proposed effort.	raffic Information and Control Systems, WG1	
PROJECTED USE :	Architecture		
SERVICE GROUP :	All		
STATUS :	Proposed	EST-COMP DATE : 1997	
NUMBER :	NP1 .3		
ORGANKATION :	International Standards Organization	n	
TITLE :	AVI/AEI Architecture and Terminolo	ду	
ABSTRACT :	IS0 Technical Committee TC204, T Architecture, proposed effort.	Traffic Information and Control Systems, WG1	
PROJECTED USE :	Architecture		
SERVICE GROUP :	All		
STATUS :	Proposed	EST-COMP DATE : 1997	
NUMBER :	PWI1 .1		
ORGANKATION :		_	
TITLE :	International Standards Organizatio		
	-	nce Models, Architectures, & Taxonomy.	
ABSTRACT :	ISO Technical Committee TC204, 1 Architecture, proposed effort.	raffic Information and Control Systems, WG1	
PROJECTED USE :	Architecture		
Thursday, December	15,1994	Page 3	

SERVICE GROUP	: All			
STATUS :	Proposed EST-COMP DATE : 1996			
NUMBER :	PWI1 .2			
ORGANIZATION :	International Standards Organization			
TITLE :	Data Models & Data Dictionaries			
ABSTRACT :	IS0 Technical Committee TC204, Traffic Architecture, proposed effort.	Information and Control Systems, WG1		
PROJECTED USE	: Architecture			
SERVICE GROUP	: All			
STATUS :	Proposed	EST-COMP DATE : 1996		
NUMBER :	PWI1.3			
ORGANKATION :	International Standards Organization			
TITLE :	AVI/AEI Requirements for DSRC			
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG1 Architecture, proposed effort.			
PROJECTED USE	: Architecture			
SERVICE GROUP	: All			
STATUS :	Proposed	EST-COMP DATE : 1996		
NUMBER :	PWI1.4			
ORGANKATION :	International Standards Organization			
TITLE :	AVI/AEI Intersystem Interface Requiremer	nts		
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG1 Architecture, proposed effort.			
PROJECTED USE	Architecture			
SERVICE GROUP	: All			
STATUS :	Proposed	EST-COMP DATE : 1996		

NUMBER :	PWII .5		
ORGANIZATION :	International Standards Organization		
TITLE :	AVI Systems Requiements		
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG Architecture, proposed effort on automated vehicle identification (AVI).		
PROJECTED USE :	Architecture		
SERVICE GROUP :	All		
STATUS :	Proposed	EST-COMP DATE : 1996	

## Automated Vehicle Control

NUMBER :	NP14.1
ORGANKATION :	International Standards Organization
TITLE :	Monitor/Warning/Advice Systems for: Forward obstacles & traffic impediments, rear/corner obstacles, side obstacles, blind curves
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG14, Vehicle/Roadway Warning & Control Systems, proposed effort.
PROJECTED USE :	Automated Vehicle Control
SERVICE GROUP :	Vehicles
STATUS :	Proposed EST-COMP DATE : 1997
NUMBER :	PWI14.1
NUMBER : ORGANKATION :	PWI14.1 International Standards Organization
ORGANKATION :	International Standards Organization
ORGANKATION : TITLE : ABSTRACT :	International Standards Organization Adaptive cruise control ISO Technical Committee TC204, Traffic Information and Control Systems, WG14,

STATUS : Proposed

EST-COMP DATE : 1996

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## **Automated Vehicle Location**

NUMBER :	Title 21			
ORGANIZATION :	California State Code of Regulations			
TITLE :	AVI Compatibility Specification			
ABSTRACT :	Specification for Automated Vehicle Location transponder requirements.			
PROJECTED USE :	Automated Vehicle Location			
SERVICE GROUP :	ATMS, APTS, ETC			
STATUS :	Law	EST-COMP DATE : Complete		
NUMBER :	VDV 04.05.2			
ORGANIZATION :	Verband Deutscher Verkehrsunterne	hmen		
TITLE :	Technical Requirements for Location	Beacon Systems		
ABSTRACT :	microwave wayside beacons and tran	or communications between infrared and nsit vehicles. Defines formats for location, affic signal preemption. (German Association of		
PROJECTED USE :	Automated Vehicle Location			
SERVICE GROUP :	APTS, AVL			
STATUS :	Approved	EST-COMP DATE : Complete		
NUMBER :	VDV 04.05.5			
ORGANIZATION :	Verbund Deutscher Verkehrsunterne	hmen		
TITLE :	Radio Data Interface			
ABSTRACT :	computer and radio system in transit	o be used in interface between the central Automatic Vehicle Location/Control (fleet ociation of Public Transport Operators)		
PROJECTED USE :	AVL, Control			
SERVICE GROUP :	APTS, AVL, Vehicles			
STATUS :	Approved	EST-COMP DATE : Complete		
NUMBER :	VDV 300			
ORGANIZATION :	Verbund Deutscher Verkehrsunterne	hmen		

#### **Automated Vehicle Location**

- TITLE : Integrated On-Board Information systems (IBIS)
- ABSTRACT : Defines physical characteristics of on-board transit computers, peripherals, interconnecting wiring and connectors, protocols and message structures for busses and light rail. (German Association of Public Transport Operators)
- PROJECTED USE : AVL, control
- SERVICE GROUP : APTS, AVL, Vehicles
- STATUS : Approved

EST-COMP DATE : Complete

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## Banking

NUMBER :	IS0 4909:1987		
ORGANKATION :	International Standards Organization		
TITLE :	Bank Cards - Magnetic Stripe data for track 3.		
ABSTRACT :	Magnetic card format for electronic banking data.		
PROJECTED USE :	Electronic funds transfer		
SERVICE GROUP :	APTS, CVO, ATMS, vehicles.		
STATUS :	Approved	EST-COMP DATE : 1987	
NUMBER :	PWI5.4		
ORGANKATION :	International Standards Organization		
ORGANKATION: TITLE:	International Standards Organization FTC Applications for IC Cards		
TITLE :	FTC Applications for IC Cards IS0 Technical Committee TC204, Traffic Ir		
TITLE : ABSTRACT :	FTC Applications for IC Cards IS0 Technical Committee TC204, Traffic Ir Fee & Toll Collection (FTC), proposed effo		
TITLE : ABSTRACT : PROJECTED USE :	FTC Applications for IC Cards IS0 Technical Committee TC204, Traffic Ir Fee & Toll Collection (FTC), proposed effo Banking		

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## CVO

NUMBER :	PWI7.1		
ORGANIZATION :	International Standards Organization		
TITLE :	Establish & define operational levels for Commercial/Freight (C/F) applications.		
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG7, Commercial/Freight (C/F), proposed effort.		
PROJECTED USE :	CVO		
SERVICE GROUP :	CVO		
STATUS :	Proposed	EST-COMP DATE : 1996	
NUMBER :	PW17.2		
ORGANIZATION :	International Standards Organization		
TITLE :	For each level defined in PW17.1 determine C/F operations requirements for WG's 1, 5,6,14,15, and 16.		
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG7, Commercial/Freight (C/F), proposed effort.		
PROJECTED USE :	CVO		
SERVICE GROUP :	CVO		
STATUS :	Proposed	EST-COMP DATE : 1996	
NUMBER :	PWI7.3		
ORGANIZATION :	International Standards Organization		
TITLE :	Identify requirements for International Standards pretaining to C/F.		
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG7, Commercial/Freight (C/F), proposed effort.		
PROJECTED USE :	CVO		
SERVICE GROUP :	CVO		
STATUS :	Proposed	EST-COMP DATE : 1 996	

NUMBER :

ORGANKATION :	American Society for Test and Materials	
TITLE :	Standard for Dedicated, Short Range Two-Way Vehicle to Roadside Communications Equipment	
ABSTRACT :	Draft standard and protocol for beacon to vehicle and return communications.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ETC, Vehicles, APTS	
STATUS :	Draft	EST-COMP DATE : 1995
NUMBER :		
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Cellular Digital Packet Data Specification,	Release 1
ABSTRACT :	Cellular Digital Packet Data (CPDP) specie existing AMPS cellular analog voice mobile	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Draft	EST-COMP DATE : 1997
NUMBER :		
ORGANKATION :	Society of Automotive Engineers	
TITLE :	ITIIS Bearer Application Protocol (BAP)	
ABSTRACT :	Network level protocol for International Tra (ITIIS) message transmission by a specifie communications system would use a sepe	ed communications system. Each
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, APTS, other	
STATUS :	Draft	EST-COMP DATE : Dec 1995
NUMBER :		

ORGANIZATION :	Society of Automotive Engineers
TITLE :	ITIIS Bearer Independent Format (BIF) Protocol

Thursday, December 15,1994

ABSTRACT : Transport layer message protocols, formats and contents for transmission of traffic data from traffic management/information center to vehicle, traveler or driver.

PROJECTED USE : Communications

SERVICE GROUP : ATIS, APTS others

STATUS : Draft

NUMBER :

ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Information Report, 9 1 1 Message List	
ABSTRACT :	Message list for cellular telephone 9 1 1 causing very short tone bursts.	alls. Appropriate for two-way singaling
PROJECTED USE : Communications		
SERVICE GROUP :	ATIS, ATMS, APTS, ARTS	
STATUS :	Proposed	EST-COMP DATE : 1995

NUMBER : ANSI TI.105-88

ORGANIZATION : American National Standards Institute

TITLE : Digital hierarchy optical interface.

ABSTRACT :

PROJECTED USE : Communications

SERVICE GROUP : ATMS

STATUS : Approved

EST-COMP DATE : Complete

EST-COMP DATE : Dec 1995

ORGANIZATION : Joint ANSI/IEEE

TITLE : Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHZ to 300 GHz.

ABSTRACT : Standard specifies maximum power densities tolerable in a 30 minute time period.

PROJECTED USE : Communications, Safety

Thursday, December 15,1994

SERVICE GROUP : STATUS :	ATIS, APTS, CVO, ATMS Approved	EST-COMP DATE : Nov 1992	
NUMBER : ORGANIZATION : TITLE :	css 7 Consultative Committee for International Telegraph and Telephone CCITT Specification for Signaling System 7		
ABSTRACT :	A common-channel signalling system, usi OSI, provides data-handling refered to as includes layers 4 to 7 of the OSI model.	ng packet switching and tailored to the IS0 Integrated Service Data Network -	
PROJECTED USE :	Communications		
SERVICE GROUP	: ATIS		
STATUS :	Approved	EST-COMP DATE : 1984	
NUMBER :	EIA IS-51		
ORGANIZATION :	Electronics Industry Association		
TITLE :	Emission Limitation for AM Broadcast Transmission.		
ABSTRACT :	AM broadcast emission limits.		
PROJECTED USE	: Communications		
SERVICE GROUP :	ATMS, ATIS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA IS-52		
ORGANIZATION :	Electronics industry Association		
TITLE :	Uniform Dialing Procedures and Call Processing Treatment for Use in Cellular Radio Telecommunications.		
ABSTRACT :	Cellular telephone, dialing and call processing.		
PROJECTED USE	: Communications		
SERVICE GROUP :	ATMS, ATIS		
STATUS :	Approved	EST-COMP DATE : Complete	

NUMBER :	EIA RS-250-B
ORGANIZATION :	Electronics Industry Association
TITLE :	Electrical Performance Standards for Television Relay Facilities.
ABSTRACT :	

PROJECTED USE : Communications			
SERVICE GROUP :	ATMS, ATIS, APTS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA-210		
ORGANIZATION :	Electronics Industry Association		
TITLE :	Terminating and Signaling Equipment for 1: Telephone Equipment.	Microwave Communication Systems, Part	
ABSTRACT :	Microwave telephone service termination and signaling.		
PROJECTED USE :	Communications		
SERVICE GROUP :	ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA-220		
ORGANIZATION :	Electronics Industry Association		
TITLE :	Minimum Standards for Land Mobile Com	munications CTCSS.	
ABSTRACT :			

PROJECTED USE : Communications

SERVICE GROUP : ATMS

STATUS : Approved

EST-COMP DATE : Complete

NUMBER : EIA-334-A-1

ORGANIZATION :	Electronics Industry Association	
TITLE :	Signal Quality at Interface between Data Terminal Equipment and Synchronous Data Circuit-Terminating Equipment for Serial Data Transmission	
ABSTRACT :	Communications signal quality requirements.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA-439	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Engineering Specifications Format for Co	lor CCTV Camera Equipment
ABSTRACT :		
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, APTS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA-440-A	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Fiber Optic Terminology	
ABSTRACT :	Definitions of terms used with fiber optic communications systems, fiber, transmitters, receivers, cables, connectors and splices.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA455-1A	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Cable Flexing for Fiber Optic Interconnec	ting Devices.
ABSTRACT :		

Thursday, December 15,1994

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PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
	FIA-462	

NUMBER :	EIA-462	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Electrical Performance Standards for Tele	vision Broadcast Demodulators.
ABSTRACT :	Television receivers, performance standar	ds.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, APTS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	EIA-465	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Group 3 Facsimile Apparatus of Documen	t Transmission.
ABSTRACT :	Facsimile (FAX) communications and equ	ipment.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	EIA-466	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Procedures for Document Facsimile Trans	mission.
ABSTRACT :	Procedures for document facsimile transm	nission.
PROJECTEDUSE:	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER	:	EIA-470~A
Thursday,	December	15,1994

## Standards and Protocols Catalog

## Communications

ORGANKATION :	Electronics Industry Association	
TITLE :	Telephone Instruments with Loop Signaling.	
ABSTRACT :	Telephone communications loop signaling requirements.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA-511	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Manufacturing Message Specification-Serv	vice Definition and Protocol
ABSTRACT :	Message protocol.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA-TSB-19-86	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Pulse Communications	
ABSTRACT :		
	O	
PROJECTED USE :		
SERVICE GROUP :		EST-COMP DATE : Complete
STATUS :	Approved	LOT-COMI DATE . Complete
NUMBER :	EIA/TIA-316-C	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Minimum Standards for Portable/Personal Transmitter/Receiver Combination Land N	
ABSTRACT :	Minimum standard for portable/personal ransmitter/receiver combination land mot	adio transmitters receivers and bile communication Frequency Modulation
Thursday December		Page 17

Thursday, December 15,1994

(FM) or Phase Modulation (PM) equipment, 25 to 1000 MHz.

		,
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA-455-A	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Standard Test Procedure for Fiber Optic F Connecting and Terminating Devices, and	
ABSTRACT :	Standard test procedure for fiber optic fiber connecting and terminating devices, and c	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA-4644	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Private Branch Exchange (PBX) Switching	Equipment for Voiceband Application.
ABSTRACT :	Voiceband telephone switching equipmen	t.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA-547	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Network Channel Terminal Equipment for	DS1 Service.
ABSTRACT :		

PROJECTED USE : Communications

SERVICE GROUP :	ATMS	EST-COMP DATE : Complete
STATUS :	Approved	
NUMBER :	EIA/TIA-578	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Asynchronous Facsimile DCE Control Star	ndard.
ABSTRACT :		
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA-579	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Acoustioto-Digital and Digital-to-Acoustic Terminals.	Transmission Requirements for ISDN
ABSTRACT :	Transmission requirements for ISDN transmission requirements for ISDN transmission	mission of digital data.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA594	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Private Digital Network Synchronization	
ABSTRACT :	Digital network communications synchroni	zation.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER : ORGANKATION :	EWTWS-240-D Joint EIA/TIA	
TITLE :	Minimum Standards for Land Mobile Com Phase Modulated Receivers, 25 to 866 M	
ABSTRACT :	Minimum standard for Frequency Modula	ted (FM) and Phase Modulated (PM) radio.
PROJECTEDUSE:	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA/IS-41 .1 B	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Cellular Radiotelecommunications Intersy	stem Operations: Functional Overview.
ABSTRACT :	Cellular telephone, intersystem functional	operations.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ATIS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA/IS-41.28	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Cellular Radiotelecommunications Intersy	stem Operations: Intersystem Handoff.
ABSTRACT :	Cellular telephone, intersystem handoff (between systems) operations.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ATIS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA/IS41.3B	
ORGANIZATION :	Joint EIATIA	
TITLE :	Cellular Radiotelecommunications Intersy	stem Operations: Automatic Roaming.
ABSTRACT :	Cellular telephone, automatic roaming op	erations.

PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ATIS	EST-COMP DATE : Complete
STATUS :	Approved	
NUMBER :	EIA/TIA/IS-41.5B	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Cellular Radiotelecommunications Intersystem	stem Operations: Data Communications.
ABSTRACT :	Cellular telephone, data communications	operations.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ATIS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA/IS-54-A	
ORGANKATION :	Joint EIA/TIA	
TITLE :	Cellular System Dual-Mode Mobile Station	n-Base Station Compatibility Standard.
ABSTRACT :	Interium standard for Cellular telephone, t	base station standardization.
PROJECTED USE	Communications	
SERVICE GROUP :	ATMS, ATIS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA/IS-55	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Recommended Minimum Performance S Stations.	tandards for 800MHz Dual-Mode Mobile
ABSTRACT :		
PROJECTED USE	: Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
Thursday, Decembe	r 15,1994	Page 21

NUMBER :	EIA/TIA/IS-553		
ORGANIZATION :	Joint EIA/TIA		
TITLE :	Advanced Mobile Phone System (AMPS)		
ABSTRACT :	The current (1994) cellular telephone syst	em.	
PROJECTED USE :	Communications		
SERVICE GROUP :	ATIS, ATMS, CVO, APTS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA/TIA/IS-83		
ORGANIZATION :	Joint EIA/TIA		
TITLE :	Procedures for Automatic Inter-working be conforming to Recommendations V.32, V		
ABSTRACT :	Procedures for interworking modems con V.22bis and V.22.	forming to CCITT recommendations V.32,	
PROJECTED USE :	Communications		
SERVICE GROUP :	ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA/TIA/IS-95		
ORGANIZATION :	Joint EIA/TIA		
TITLE :	Interium Standard, Mobile Station-Base St Mode Wideband Spread Spectrum Cellula		
ABSTRACT :	Code Division Multiple Access (CDMA). A which multiple users may simultaneously different code for their information transfer	share a frequency as each is using a	
PROJECTED USE :	Communications		
SERVICE GROUP :	ATIS, ATMS, APTS, CVO		
STATUS :	Draft	EST-COMP DATE : 1996	
NUMBER :	FIPS 148		
ORGANIZATION :	National Bureau of Standards		
		_	

TITLE :	Federal Information Processing Standard, Government Open System Interface Procedures.	
ABSTRACT :	U.S. Government standard for IS0 Open S	ystem Interconnection.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ATIS, APTS, ARTS, CVO	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IEEE 802.2	
ORGANIZATION :	Institute of Electrical and Electronics Engin	eers
TITLE :	Standard for Local Area Networks: Logical	Link Control.
ABSTRACT :	Basic standard for ethernet and other local area networks. Also see IEEE 802.(3,4, 5). Also ISO 880(2,3,4,5).	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER : ORGANIZATION :	IEEE 802.3	
TITLE :	Institute of Electrical and Electronics Engineers CSMA/CD Access Method and Physical Layer Specification.	
	-	
ABSTRACT :	Ethernet - Carrier Sensing Multiple Access	Collision Detecting protocol standard.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IEEE 802.4	
ORGANIZATION :	Institute of Electrical and Electronics Engineers	
TITLE :	Token - Passing Bus Access Method and Physical Layer Specification.	
ABSTRACT :	Networking using token passing access protocol.	
PROJECTEDUSE:	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
SERVICE ONOUP.		

STATUS :	Approved	EST-COMP DATE : Complete
NUMBER : ORGANIZATION :	IEEE 802.5	
TITLE :	Institute of Electrical and Electronics Engin Token Ring Access Method and Physical L	
ABSTRACT :	Networking using token passing access p	
	Communications	
PROJECTED USE :		
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	EST COMP DATE : Complete
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IEEE 802.6	
ORGANIZATION :	Institute of Electrical and Electronics Engin	
TITLE :	Dual Queue Data Bus - Metropolitan Area	
ABSTRACT :	Specification for a Metropolitan Area Netw	vork.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, APTS, ATIS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IEEE 823-89	
ORGANIZATION :	Institute of Electrical and Electronics Engin	neers
TITLE :	Standard methods for specifying voicegrad	de transmissions.
ABSTRACT :	Voice communications requirements.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IS-54	
ORGANIZATION :	Telecommunication Industry Association	
TITLE :	Time Division Multiplex Access (TDMA) Ce	ellular Telephone
Thursday, December	15,1994	Page 24

ABSTRACT :	A method of providing digital voice telephony over cellular telephone communications links, by communicating in one of several time slots.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Draft	EST-COMP DATE :
NUMBER :	IS0 8072:1984	
ORGANIZATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open S Definition	system Interconnection - Transport Service
ABSTRACT :	Defines the transport layer (layer 4) requir C is similar to, and based on MIL-STD 17	rements for network service. Class 4, Type 78 Transport Control Protocol.
PROJECTED USE	: Communications	
SERVICE GROUP :	ATIS, APTS, ATMS, CVO	
STATUS :	Approved	EST-COMP DATE : 1984
NUMBER :	ISO 8073:1984	
ORGANIZATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open S Connection-Oriented Transport Protocol S	System Interconnection - Specification.
ABSTRACT :	Defines the transport layer (layer 4) proto 4, Type C is similar to, and based on MIL-	col requirements for network service. Class -STD \$778 Transport Control Protocol.
PROJECTED USE	: Communications	
SERVICE GROUP :	APTS, ATIS, ATMS, CVO	
STATUS :	Approved	EST-COMP DATE : 1984
NUMBER :	IS0 8571	
ORGANKATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open S Access and Management (FTAM)	System Interconnection - File Transfer,

- ABSTRACT : A series of IS0 standards dealing with tiles, storage and transfer.
- PROJECTED USE : Communications

SERVICE GROUP : STATUS :	Approved	EST-COMP DATE : Aug 1986
NUMBER :	IS0 8822	
ORGANKATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open S Connection-Oriented Presentation Service	ystem Interconnection - Definition
ABSTRACT :	Defines service for connection (circuit) pre	sentation.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, APTS	
STATUS :	Approved	EST-COMP DATE : May 1986
NUMBER :	IS0 8823	
ORGANKATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open S Connection-Oriented Presentation Service	
ABSTRACT :	Protocol requirements for connection-oriented presentation service.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, AOPTS	
STATUS :	Approved	EST-COMP DATE: May 1986
NUMBER :	IS0 9595	
ORGANKATION :	International Standards Organization	
TITLE :	Information Technology - Open System Ir Information Service Definition	nterconnect- Common Management
ABSTRACT :	Defines the common management information protocol (CMIP, analogous to TCP) and service.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, APTS, ATMS, CVO, Vehicles	
STATUS :	Approved	EST-COMP DATE : 1991

NUMBER :	IS0 9596	
ORGANIZATION :	international Standards Organization	
TITLE :	Information Technology - Open System In Information Protocol (CMIP) Specification	terconnect - Common Management
ABSTRACT :	CMIP is similar to TCP. CMIP provides a connection-oriented data-transfer service between users in order to overcome damage, loss, duplication and misordering of packets during transmission through multiple networks. May replace TCP about 2001.	
PROJECTED USE :	Communications	
SERVICE GROUP :	APTS, ATIS, ATMS, CVO, Vehicles	
STATUS :	Approved	EST-COMP DATE : 1991
NUMBER :	J1746	
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Recommended Practice for Traveler Inform	mation Service Message List.
ABSTRACT :	Overall message list for all communicatio System (ITS).	ns within an Intelligent Transportation
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, APTS, ATIS, CVO, Vehicles	
STATUS :	Draft	EST-COMP DATE : Sep 1995
NUMBER :	MIL-STD 1777	
ORGANIZATION :	United States Department of Defense	
TITLE :	Internet Protocol (IP)	
ABSTRACT :	Internet protocol supports the the intercon datagram service to determine the shortes	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Approved	EST-COMP DATE : Aug 1977
NUMBER :	MIL-STD 1778	
ORGANIZATION :	United States Department of Defense	
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Thursday, December 15,1994

ABSTRACT : Transport control protocol provides a connection-oriented data-transfer service between users in order to overcome damage, loss, duplication and misordering of packets during transmission through multiple networks. May be replaced by IS0 8072 and 8073.

**PROJECTED USE : Communications** 

SERVICE GROUP : ATMS, ATIS, APTS, CVO.

STATUS : Approved EST-COMP DATE : Oct 1983

NUMBER : MIL-STD 1780

- ORGANIZATION : United States Department of Defense
- TITLE : File Transport Protocol
- ABSTRACT : File transport protocol is the "upper-layer prtocols" that commands the transport control protocol issuing 'service requests' and receiving 'service responses'.

PROJECTEDUSE: Communications

- SERVICE GROUP : ATIS, ATMS, APTS, CVO
- STATUS : Approved

NUMBER : MIL-STD 1781

ORGANIZATION : United States Department of Defense

TITLE : Simple Mail Transfer Protocol

ABSTRACT : an "upper layer protocol" for mail transfer through a network based on transfer control protocol (TCP) and internet protocol (IP).

PROJECTED USE : Communications

SERVICE GROUP : ATIS, ATMS, APTS, CVO

STATUS : Approved

NUMBER :	MIL-STD 1782
ORGANIZATION :	United States Department of Defense

- TITLE : TELNET Protocol
- ABSTRACT : TELNET is a virtual circuit switching system (CCITT X.75) similar to Internet.

EST-COMP DATE : May 1984

EST-COMP DATE : May 1984

PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, ATIS, APTS, CVO	EST-COMP DATE : May 1984
STATUS :	Approved	
NUMBER :	NP15.1	
ORGANIZATION :	International Standards Organization	
TITLE :	Physical layer standard (OSI level 1) - road	side to vehicle communication.
ABSTRACT :	IS0 Technical Committee TC204, Traffic I Dedicated Short Range Communications f	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	NP15.2	
ORGANIZATION :	International Standards Organization	
TITLE :	Data link layer standard (OSI level 2) - roadside to vehicle communication.	
ABSTRACT :	IS0 Technical Committee TC204, Traffic In Dedicated Short Range Communications f	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	NP15.3	
ORGANIZATION :	International Standards Organization	
TITLE :	Application layer standard (OSI level 7) - ro	adside to vehicle communication.
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WG15, Dedicated Short Range Communications for TICS Applications, proposed effort	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1997

NUMBER :	NP16.1	
ORGANKATION :	International Standards Organization	
TITLE :	Application layer message formats for: Tra Management, Emergency Management.	veler Information, Route Guidance, Fleet
ABSTRACT :	IS0 Technical Committee TC204, Traffic In Wide Area Communications / Protocols and	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	NP16.2	
ORGANKATION :	International Standards Organization	
TITLE :	Application message types.	
ABSTRACT :	IS0 Technical Committee TC204, Traffic In Wide Area Communications / Protocols an	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	PWI11.2	
ORGANKATION :	International Standards Organization	
TITLE :	Air interface requirements.	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Ir Route Guidance and Navigation Systems,	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	PWI15.1	
ORGANKATION :	International Standards Organization	
TITLE :	Identify & review sources of information	

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG15, Dedicated Short Range Communications for TICS Applications, proposed effort.

PROJECTED USE : Communications

SERVICE GROUP : ATIS, APTS, ATMS, CVO

STATUS : Proposed

NUMBER : PWI1 5.2

ORGANIZATION : International Standards Organization

TITLE : Survey of application needs.

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG15, Dedicated Short Range Communications for TICS Applications, proposed effort.

PROJECTED USE : Communications

SERVICE GROUP : ATIS, APTS, ATMS, CVO

STATUS : Proposed

NUMBER : PWI15.3

ORGANIZATION : International Standards Organization

TITLE : Communications architectures.

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG15, Dedicated Short Range Communications for TICS Applications, proposed effort.

PROJECTEDUSE: Communications

SERVICE GROUP : ATMS, ATIS, CVO, APTS

STATUS : Proposed

EST-COMP DATE : 1996

EST-COMP DATE : 1996

EST-COMP DATE: 1996

NUMBER : PWI15.4

ORGANIZATION : International Standards Organization

TITLE : Methodology of standards work program -vehicle to vehicle communication, roadside to vehicle communications.

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG15, Dedicated Short Range Communications for TICS Applications, proposed effort.

PROJECTED USE : Communications

SERVICE GROUP : STATUS :	ATIS, ATMS, APTS, CVO Proposed	EST-COMP DATE : 1996
NUMBER : ORGANKATION : TITLE :	PWI1 5.5 International Standards Organization Terminology (in cooperation with WG1).	Information and Control Customs WC45
ABSTRACT :	IS0 Technical Committee TC204, Traffic I Dedicated Short Range Communications	for TICS Applications, proposed effort.
PROJECTEDUSE:	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	RBDS	
ORGANIZATION :	National Radio Systems Committee [NRSC] (EIA and NAB)	
TITLE :	United States Radio Broadcast Data System (RBDS) Standard - FM subcarrier data transmission.	
ABSTRACT :	Proposed FM subcarrier signaling for wlde	area data transfer to vehicles.
PROJECTED USE :	Traffic Data Communications	
SERVICE GROUP :	ATIS, APTS, others	
STATUS :	Draft	EST-COMP DATE : Jan 1995
NUMBER :	V.24	
ORGANKATION :	Consultative Committee for International	Telegraph and Telephone
TITLE :	Functions and electrical characteristics of terminal equipment and data communicat	
ABSTRACT :	Terminal to communications system interf	face standards.
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	V.28
ORGANIZATION :	Consultative Committee for International Telegraph and Telephone
TITLE :	Electrical characteristics for interface circuits.
ABSTRACT :	Characteristics of electrical circuits used between terminal and communications devices.
PROJECTED USE :	Communications
SERVICE GROUP :	ATMS, ATIS, APTS
STATUS :	Approved EST-COMP DATE : Complete
NUMBER :	v.35
ORGANIZATION :	Consultative Committee for International Telegraph and Telephone
TITLE :	Transmission of 48 kilobits/second data using 60 to 108 kiloHertz group bank circuits.
ABSTRACT :	Transmission of 48 kilobiis per second digital data over telephone group circuits with bandwidths of 60 to 108 kiloHertz
PROJECTED USE :	Communications
SERVICE GROUP :	ATMS, APTS, ATIS
STATUS :	Approved EST-COMP DATE : Complete
NUMBER :	VDV 420
ORGANIZATION :	Verband Deutscher Verkehrsunternehmen
TITLE :	Technical Requirements for Automatic Vehicle Location/Control Systems - Radio Data Transmission.
ABSTRACT :	Protocols and message structure for public transit fleet management. Communications between vehicle to/from transit control center. (German Association of Public Transport Operators)
PROJECTED USE :	Communications, Transit
SERVICE GROUP :	APTS, ATMS
STATUS :	Approved EST-COMP DATE : Complete
NUMBER :	x.21
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ORGANIZATION : Consultative Committee for International Telegraph and Telephone

ABSTRACT :	Defines the physical characteristics and control procedures for a synchronous digital transmission between the user machine and network. Provides end-to-end digital transmission.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	X.25	
ORGANIZATION :	Consultative Committee for International Telegraph and Telephone	
TITLE :	Interface Between Data Terminal Eqipmen Equipment (DCE) for Terminals Operating Networks.	
ABSTRACT :	Interface protocol standard specifing physical control (layer 1), link control (layer 2) and network control (layer 3) for packet format data transfer comnnection to a network.	
PROJECTED USE :	Communications	
SERVICE GROUP :	ATMS, APTS, ATIS	
STATUS :	Approved	EST-COMP DATE : 1984
NUMBER :	x.400	
ORGANKATION :	Consultative Committee for International T	elegraph and Telephone

- TITLE : Message Handling Systems: System Model-Service Elements
- ABSTRACT : "Upper Level Protocols" for Message and Mail transfer on networks.
- **PROJECTED USE : Communications**
- SERVICE GROUP : ATIS, ATMS, APTS, CVO
- STATUS : Approved

EST-COMP DATE : 1984

NUMBER : ORGANIZATION : TITLE : ABSTRACT :	ANSI TI.206-88 American National Standards Institute Digital Circuits. Digital circuit requirements and standards.	
PROJECTED USE :	Computers	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	ANSI x3.4	
ORGANIZATION :	American National Standards Institute	
TITLE :	American National Standard Code for Info	rmation Interchange (ASCII).
ABSTRACT :	Computer eight bii code for 256 character (See FIPS-1)	set of printing and control characters.
PROJECTED USE :	Message transfer	
SERVICE GROUP :	ATMS, ATIS, APTS, ARTS, CVO	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA-352	
ORGANIZATION :	Electronics Industry Association	
TITLE :	One-Half-Inch (12.7mm) Magnetic Tape Reel for Computer Use (Requirements for Interchange).	
ABSTRACT :		
PROJECTED USE :	Computers	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	FIPS 1	
ORGANIZATION :	National Bureau of Standards	

TITLE :	Federal Information Processing Standard, Information Interchange (ASCII).	American National Standard Code for
ABSTRACT :	Computer eight bii code for 256 character (See ANSI X3.4)	set of printing and control characters.
PROJECTED USE :	Message transfer	
SERVICE GROUP :	ATMS, ATIS, APTS, ARTS, CVO	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IEEE 1000-I 987	
ORGANIZATION :	Institute of Electrical and Electronics Engin	neers
TITLE :	Standard 8-Bit Backplane Interface.	
ABSTRACT :		

SERVICE GROUP : ATMS

STATUS : Approved

EST-COMP DATE : Complete

NUMBER :	IEEE 1014-I 987
ORGANKATION :	Institute of Electrical and Electronics Engineers
TITLE :	Standard for a Versatile Backplane Bus: VME Bus.
ABSTRACT :	

PROJECTED USE :	Computers
SERVICE GROUP :	ATMS
STATUS :	Approved

EST-COMP DATE : Complete

NUMBER :	IEEE 1096-I 988
ORGANKATION :	Institute of Electrical and Electronics Engineers
TITLE :	Standard for a Multiplexed High-Performance Bus Structure.

PROJECTED USE : Computers

SERVICE GROUP : ATMS

STATUS : Approved

EST-COMP DATE : Complete

NUMBER :	IEEE 1101-1987
ORGANIZATION :	Institute of Electrical and Electronics Engineers
TITLE :	Mechanical Core Specifications for Microcomputers
ABSTRACT :	

PROJECTED USE :	Computers	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	IEEE 1196-I 987
ORGANIZATION :	Institute of Electrical and Electronics Engineers
TITLE :	Simple 32-Bit Backplane Bus: NuBus.
ABSTRACT :	

PROJECTED USE :	Computers
SERVICE GROUP :	ATMS
STATUS :	Approved

EST-COMP DATE : Complete

NUMBER :	IEEE 1296-1987
ORGANIZATION :	Institute of Electrical and Electronics Engineers
TITLE :	High Performance Synchronous 32-Bit Bus: MULTIBUS.
ABSTRACT :	

PROJECTED USE : Computers

- SERVICE GROUP : ATMS
- STATUS : Approved

EST-COMP DATE : Complete

NUMBER :	IEEE 162-I 963	
ORGANKATION :	Institute of Electrical and Electronics Engin	neers
TITLE :	Definitions of Terms of Electronic Digital C	computers.
ABSTRACT :	Terms and definitions for digital computers	S.
PROJECTED USE : Computers		
SERVICE GROUP : ATMS		
STATUS :	Approved	EST-COMP DATE : Complete

- NUMBER : IEEE 166-I 977
- ORGANKATION : Institute of Electrical and Electronics Engineers
- TITLE : Standard Definitions of Terms of Hybrid Computer Linkage Components.
- ABSTRACT : Terms and definitions for hybrid (combined digital and analog) computers.
- **PROJECTED USE : Computers**
- SERVICE GROUP : ATMS
- STATUS : Approved
- NUMBER : IEEE 754-I 985
- ORGANKATION : Joint ANSI/IEEE
- TITLE : IEEE Standard for Binary Floating Point Arithmetic.
- ABSTRACT : Floating point binary arithmetic.
- PROJECTED USE : Computer

SERVICE GROUP : All

STATUS : Approved

EST-COMP DATE : Complete

EST-COMP DATE : Complete

NUMBER : IEEE 796-I 983

 ORGANIZATION :
 Institute of Electrical and Electronics Engineers

 TITLE :
 Standard Microcomputer System Bus

 ABSTRACT :
 Standard Microcomputer System Bus

PROJECTED USE :	Computers	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST_COMP DATE : Complete

NUMBER :	IEEE 896.1-1987
ORGANIZATION :	Institute of Electrical and Electronics Engineers
TITLE :	Backplane Bus Specification for Multiprocessor Architectures: Futurebus.
ABSTRACT :	

PROJECTED USE	Computers	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	IEEE 959-I 988
ORGANIZATION :	Institute of Electrical and Electronics Engineers
TITLE :	Specifications for an I-C Expansion Bus: SBX Bus.
ABSTRACT :	

PROJECTED USE : Computers SERVICE GROUP : ATMS STATUS : Approved

EST-COMP DATE : Complete

NUMBER : IEEE 961-1987

Institute of Electrical and Electronics Engineers ORGANIZATION : 8-Bit Microcomputer Bus System: STD Bus. TITLE : ABSTRACT :

**PROJECTED USE : Computers** SERVICE GROUP : ATMS STATUS : Approved

EST-COMP DATE : Complete

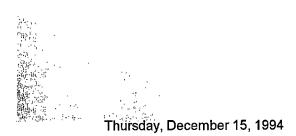
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# Container, Vehicle Id.

NUMBER :	ISO 6346:1984	
ORGANIZATION :	International Standards Organization	
TITLE :	Freight containers - Coding, identification ar	nd marking.
ABSTRACT :	Shipping container standard for marking.	
PROJECTED USE :	Vehicle/container identification	
SERVICE GROUP :	CVO	
STATUS :	Approved	EST-COMP DATE : 1984





# **Country Codes**

NUMBER:	IS0 3166	
ORGANIZATION :	International Standards Organization	
TITLE :	Country codes.	
ABSTRACT :	Digital codes for countries, states and prov	vinces.
PROJECTED USE :	Map country codes	
SERVICE GROUP :	ATIS, ATMS, CVO.	
STATUS :	Approved	EST-COMP DATE : Complete



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## **Data Communications**

NUMBER :	IS0 7498:1990	
ORGANIZATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open System Interconnect - Basic Reference Model.	
ABSTRACT :	ISO OSI model of seven layer data comm	nunications model.
PROJECTED USE :	Data Communications	
SERVICE GROUP :	ATIS, ATMS, APTS, ARTS, CVO, ETC	
STATUS :	Approved	EST-COMP DATE : 1990
NUMBER :	IS0 8824:1990	
ORGANIZATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open Systems Interconnection - Specification for Abstract Syntax Notation One (ASN.1).	
ABSTRACT	Abstract Syntax Notation.	
PROJECTED USE :	Data Communications	
SERVICE GROUP :	ATIS, ATMS.	
STATUS :	Approved	EST-COMP DATE : 1990
NUMBER :	IS0 8825:1990	
ORGANIZATION :	International Standards Organization	
TITLE :	Information Processing Systems - Open S Basic and Coding Rules for ASN.I.	Systems Interconnection - Specification of
ABSTRACT :	Abstract Syntax Notation.	
PROJECTED USE :	Data Communications	
SERVICE GROUP :	ATIS, ATMS.	
STATUS :	Approved	EST-COMP DATE : 1990

## Standards and Protocols Catalog

## **Data Input**

NUMBER :	ANSI X3.1 7	
ORGANIZATION :	American National Standards Institute	
TITLE :	Optical Character Recognition Equipment	(OCRE).
ABSTRACT :	Optical character recognition characters a	nd equipment.
PROJECTED USE :	Data input	
SERVICE GROUP :	ATMS, ATIS	
STATUS :	Approved	EST-COMP DATE : Complete

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NUMBER :	EIA RS-422		
ORGANIZATION :	Electronics Industry Association		
TITLE :	Interface Standards for RS-422 Synchrono	ous Serial Data.	
ABSTRACT :	Detailed timimg and signal requirements for	or parsalleel data transfer.	
PROJECTED USE :	Data Interchange		
SERVICE GROUP	: ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA RS-423		
ORGANIZATION :	Electronics Industry Association		
TITLE :	Interface standards for RS-423 synchronor	us serial data.	
ABSTRACT :			
PROJECTED USE :	5		
SERVICE GROUP :	ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA RS-449-1		
ORGANIZATION :	Electronics Industry Association		
TITLE :	General Purpose 37-Position and 9-Position interface for Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange		
ABSTRACT :	General purpose 37-position and g-position and data circuit-terminating equipment en		
PROJECTED USE :	Data Interchange		
SERVICE GROUP :	ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA RS-499-86		
ORGANIZATION :	Electronics Industry Association		

TITLE : Interface to generic 1A1 key telephone system.

ABSTRACT :

PROJECTED USE :	Data	interchange
	Dala	interonange

SERVICE GROUP : ATMS

STATUS : Approved EST-COMP DATE : Complete

NUMBER : EIA-363

ORGANIZATION : Electronics Industry Association

- TITLE : Standard for Specifying Signal Quality of Transmitting and Receiving Data Processing Terminal Equipment using Serial Data Transmission at the interface with Non- synchronous
- ABSTRACT : Standard for specifying signal quality of transmitting and receiving data processing terminal equipment using serial data transmission at the interface with non synchronous data communication equipment.
- PROJECTED USE : Data Interchange

SERVICE GROUP : ATMS

- STATUS : Approved
- NUMBER : EIA-366-A
- ORGANIZATION : Electronics Industry Association
- TITLE : Interface Between Data Terminal Equipment and Automatic Calling Equipment for Data Communication.
- ABSTRACT :

PROJECTED USE : Data Interchange

SERVICE GROUP : ATMS

STATUS : Approved

EST-COMP DATE : Complete

EST-COMP DATE : Complete

NUMBER : EIA-404-A

ORGANIZATION :	Electronics Industry Association
TITLE :	Standard for Start-Stop Quality for Non-Synchronous Data Terminal Equipment.
ABSTRACT :	

PROJECTED USE :	Data Interchange	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER:	EIA-548
ORGANIZATION :	Electronics Industry Association
TITLE :	Electronic Design Interchange Format (EDIF) Version 200.
ABSTRACT :	

PROJECTED USE :	Data Interchange	
SERVICE GROUP	: ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER : EIA-563

 ORGANIZATION :
 Electronics Industry Association

 TITLE :
 Standard Baseband (Audio/Video) interface between NTSC Television Receiving Devices and Peripheral Devices.

ABSTRACT :

PROJECTED USE : Data Interchange SERVICE GROUP : ATMS STATUS : Approved

EST-COMP DATE : Complete

NUMBER : EIA/TIA-496-A

Thursday, December 15,1994

ORGANIZATION :	Joint EIA/TIA	
TITLE :	Interface Between Data Circuit-Terminating Switched Telephone Network (PSTN).	Equipment (DCE) and the Public
ABSTRACT :		
PROJECTED USE :	Data Interchange	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA-561	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Simple 8-Position Non-Synchronous Interfa and Data Circuit-Terminating Equipment	ace Between Data Terminal Equipment
ABSTRACT :	Simple 8-position non-synchronous interfact data circuit-terminating equipment employing	
PROJECTED USE :	Data Interchange	
SERVICE GROUP	: ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA-562-89	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Electrical Characteristics for an Unbalance	d Digital Interface.
ABSTRACT :		
PROJECTED USE :	Data Interchange	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER : EIA/TIA-574

ORGANIZATION :	Joint EIA/TIA	
TITLE :	9-Position Non-Synchronous Interface between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial	
ABSTRACT :	9 position non-synchronous interface between data terminal equipment and data circuit-terminating equipment employing serial binary data interchange.	
PROJECTED USE :	Data Interchange	
SERVICE GROUP	: ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA/TIA/IS-232-E	
ORGANIZATION :	Joint EIA/TIA	
TITLE :	Interface Between Data Terminal Equipme Equipment Employing Serial Data Binary	
ABSTRACT		
PROJECTED USE :	Data Interchange	
SERVICE GROUP	: ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IS0 9735	
ORGANIZATION :	International Standards Organization	
TITLE :	Electronic data interchange for administra (EDIFACT).	ation, commerce and transportation
ABSTRACT :	Application of EDIFACT syntax.	
PROJECTED USE :	Data interchange	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, ETC	
STATUS :	Approved	EST-COMP DATE : Complete

### **Database Queries**

NUMBER :	ANSI X3.1 35	
ORGANIZATION :	American National Standards Institute	
TITLE :	Structured Query Language.	
ABSTRACT :	Structured Query Language is a standardized set of commands for accessing and updating databases.	
PROJECTED USE :	Database Queries	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	FIPS 127	
ORGANIZATION :	National Bureau of Standards	
TITLE :	Federal Information Processing Standard,	Structured Query Language.
ABSTRACT :	Structured Query Language is a standardized set of commands for accessing and updating databases.	
PROJECTED USE :	Database Queries	
SERVICE GROUP :	APTS, ATIS, CVO, others?	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	ISO 9075:1988	
ORGANIZATION :	International Standards Organization	
TITLE :	Structured Query Language.	
ABSTRACT :	Structured Query Language is a standardized set of commands for accessing and updating databases.	
PROJECTED USE :	Database Queries	
SERVICE GROUP :	APTS, ATIS, CVO, others?	
STATUS :	Approved	EST-COMP DATE : 1988

# **Digital Maps**

NUMBER :	CEN GDF	
ORGANIZATION :	Committee for European Normalisation	
TITLE :	Geographic Data File.	
ABSTRACT :	Geographic data file structure and transfermaps.	r standard for European geographic digital
PROJECTED USE :	GIS Data Transfer	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	FIPS 173	
ORGANIZATION :	National Bureau of Standards	
TITLE :	Federal Information Processing Standard,	Spatial Data Transfer Standard
ABSTRACT	Standard for transferring data from one ge second GIS. Defines the requirements for	
PROJECTED USE :	GIS Data Transfer	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	NP3.1	
ORGANIZATION :	International Standards Organization	
TITLE :	Geographic Data File	
ABSTRACT :	ISO Technical Committee TC204, Traffic TICS Database Technology, proposed eff	•
PROJECTED USE :	GIS Data Transfer	
SERVICE GROUP :	All	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	NP3.2	
ORGANIZATION :	International Standards Organization	
TITLE :	Physical Storage	

#### **Digital Maps**

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG3 TICS Database Technology, proposed effort.

PROJECTED USE : Digital Maps

SERVICE GROUP : All

STATUS : Proposed

EST-COMP DATE : 1997

NUMBER : PWI3.1

- ORGANIZATION : International Standards Organization
- TITLE : Updating Procedure
- ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG3 TICS Database Technology, proposed effort.
- PROJECTED USE : Digital Maps

SERVICE GROUP : All

STATUS : Proposed

EST-COMP DATE : 1996

Page 52

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## ETTM

NUMBER :	ETTM	
ORGANIZATION :	Intelligent Transportation Society - America	
TITLE :	Electronic Toll & Traffic Management (ETTM) User Requirements for	
ABSTRACT :	Electronic tag requirements, for toll collection and traffic management.	
PROJECTED USE :	Electronic toll, traffic mgmt.	
SERVICE GROUP :	AVI, ATMS, ETC, CVO, APTS.	
STATUS :	Draft	EST-COMP DATE : Oct 1995
NUMBER :	Exxx-xx	
ORGANIZATION :	Joint ASTM/IEEE	
TITLE :	Message Set and Protocols for Vehicle to	Roadside Communications.
ABSTRACT :	Vehicle to roadside communications protocols, message list and message structure for multi-purpose electronic tolls and traffic management.	
PROJECTED USE	: ETTM	
SERVICE GROUP :	CVO, ATIS, ATMS, APTS, AVCS, ETC	
STATUS :	Proposed	EST-COMP DATE : 1995
NUMBER :	PWI5.1	
ORGANIZATION :	International Standards Organization	
TITLE :	FTC Requirements for Technology Standards	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information and Control Systems, WGS, Fee & Toll Collection (FTC), proposed effort.	
PROJECTED USE : ETTM		
SERVICE GROUP :	CVO, ATMS, APTS	
		FOT COMP DATE : 4000

STATUS : Proposed

EST-COMP DATE : 1996

## **Electronic Toll Collection**

NUMBER:	PWI5.3	
ORGANIZATION :	International Standards Organization	
TITLE :	FTC Enforcement	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Fee & Toll Collection (FTC), proposed effe	
PROJECTED USE :	Enforcement	
SERVICE GROUP :		
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	PWI5.5	
ORGANIZATION :	International Standards Organization	
TITLE :	FTC Privacy	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Fee & Toll Collection (FTC), proposed effe	
PROJECTED USE :	ETC	
SERVICE GROUP :	ATIS, APTS, ATMS, CVO	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER:		
NOMBER.	PW15.6	
ORGANIZATION :	International Standards Organization	
ORGANIZATION :	International Standards Organization	
ORGANIZATION : TITLE :	International Standards Organization FTC Security IS0 Technical Committee TC204, Traffic I	
ORGANIZATION : TITLE : ABSTRACT :	International Standards Organization FTC Security IS0 Technical Committee TC204, Traffic I Fee & Toll Collection (FTC), proposed effe ETC	
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE :	International Standards Organization FTC Security IS0 Technical Committee TC204, Traffic I Fee & Toll Collection (FTC), proposed effe ETC	
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP :	International Standards Organization FTC Security ISO Technical Committee TC204, Traffic I Fee & Toll Collection (FTC), proposed effe ETC ATIS, APTS, ATMS, CVO	ort.
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP :	International Standards Organization FTC Security ISO Technical Committee TC204, Traffic I Fee & Toll Collection (FTC), proposed effe ETC ATIS, APTS, ATMS, CVO	ort.
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP : STATUS :	International Standards Organization FTC Security ISO Technical Committee TC204, Traffic I Fee & Toll Collection (FTC), proposed effe ETC ATIS, APTS, ATMS, CVO Proposed	ort.
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP : STATUS : NUMBER :	International Standards Organization FTC Security ISO Technical Committee TC204, Traffic I Fee & Toll Collection (FTC), proposed effe ETC ATIS, APTS, ATMS, CVO Proposed PWI5.7	ort.

#### **Electronic Toll Collection**

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG5, Fee & Toll Collection (FTC), proposed effort.

PROJECTED USE : ETC

SERVICE GROUP :

STATUS : Proposed

EST-COMP DATE : 1996

EST-COMP DATE : 1996

- NUMBER : PW15.8
- ORGANIZATION : International Standards Organization
- TITLE : FTC Terminology
- ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WG5, Fee & Toll Collection (FTC), proposed effort.
- PROJECTED USE : ETC
- SERVICE GROUP : ATIS, APTS, ATMS, CVO
- STATUS : proposed
- NUMBER : PWI5.9
- ORGANIZATION International Standards Organization
- TITLE : FTC Tariffing principles
- ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WGS, Fee & Toll Collection (FTC), proposed effort.

PROJECTED USE : ETC

SERVICE GROUP :

STATUS : Proposed EST-COMP DATE : 1996

# Equipment Design

NUMBER :	EIA-31 O-C
ORGANIZATION :	Electronics Industry Association
TITLE :	Racks, Panels, and Associated Equipment.
ABSTRACT :	

PROJECTED USE : Miscellaneous			
SERVICE GROUP :	ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER :	EIA-336		
ORGANIZATION :	Electronics Industry Association		
TITLE :	Color Coding for Chassis Wiring.		
ABSTRACT :	Standard for wiring color codes inside a ch	assis.	
PROJECTED USE	: Miscellaneous		
SERVICE GROUP	: ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
	EIA-385		

NUMBER:	EIA-385
ORGANIZATION :	Electronics Industry Association
TITLE :	Preferred Values
ABSTRACT :	

PROJECTED USE : Miscellaneous		
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	WD 1-1983		
ORGANIZATION :	National Electrical	Manufacturers	Association

### **Equipment Design**

TITLE : General Requirements for Wiring Devices.

ABSTRACT :

#### **PROJECTED USE : Miscellaneous**

SERVICE GROUP : ATMS

STATUS : Approved

EST-COMP DATE : Complete

NUMBER :	WD 6-I 983
ORGANIZATION :	National Electrical Manufacturers Association
TITLE :	Wiring Devices - Dimensional Requirements.
ABSTRACT :	

PROJECTED USE : Miscellaneous
SERVICE GROUP : ATMS
STATUS : Approved

EST-COMP DATE : Complete

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NUMBER:		
ORGANIZATION :	COMSIS CORP	
TITLE :	Preliminary Human Factors Guidelines for	Crash Avoidance Warning Devices
ABSTRACT :	Provides preliminary NHTSA guidlines to crash avoidance devices. Both generic an	•
PROJECTED USE :	Human Factors	
SERVICE GROUP :	Vehicles	
STATUS :	Draft	EST-COMP DATE : 1995
NUMBER :	AI/-U/ANSI G-035	
ORGANIZATION :	American Institute of Aeronautics and Ast	ronautics
TITLE :	Guide for Human Performance Measurer	nent
ABSTRACT :	Methods for measuring human performance and system evaluation.	ce for the purpose of scientific research
PROJECTED USE :	Human Factors	
SERVICE GROUP :	ATMS, Vehicles	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EPRI NP-3657	
ORGANIZATION :	Electrical Power Research Institute	
TITLE :	Human Factors Guidelines for Nuclear Power Planr Control Room Development	
ABSTRACT :	A framework for systematically applying human factors principles and criteria throughout the development of a nuclear power plant control room.	
PROJECTED USE :	Human Factors	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Copmlete
NUMBER :	FAAJASE-100	
ORGANIZATION :	Volpe Transportation Center	
דודו ה.	Computer Illumon Interface (CIII) Evaluat	ion Charlint

TITLE : Computer Human Interface (CHI) Evaluation Checklist

**ABSTRACT** : Computerized tool for evaluation of computer human interface for air traffic control systems. PROJECTED USE : Human Factors SERVICE GROUP : ATMS EST-COMP DATE : UNK STATUS : Draft **IEEE 1228** NUMBER: **ORGANIZATION:** Institute of Electrical and Electronics Engineers TITLE : Software Safety Plans ABSTRACT : Software safety. PROJECTED USE : Human Factors, Software Safety ATIS, ATMS, APTS, CVO, Vehicles SERVICE GROUP : EST-COMP DATE : Apr 1994 STATUS : Approved NUMBER : MIL-STD 1472D **ORGANIZATION:** United States Department of Defense TITLE : Human Engineering Design Criteria for Military Systems, Equipment and Facilities ABSTRACT : Human engineering design criteria, principles and practices to integrate the human into the system; and acheive effectiveness and safety of operations and maintenence PROJECTED USE : Human Factors **SERVICE GROUP**: ATMS, APTS, ATIS, Vehicles EST-COMP DATE : STATUS : Approved NUMBER: **PWII 3.1 ORGANIZATION** : International Standards Organization TITLE : Identify and review sources of information. ISO Technical Committee TC204, Traffic Information and Control Systems, WG13, ABSTRACT : Human Factors and Man-Machine-Interface (MMI), proposed effort. PROJECTED USE : Human Factors SERVICE GROUP : All

STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	PWI1 3.2	
ORGANIZATION :	International Standards Organization	
TITLE :	Develop Human Factors TICS bibliograpy.	
ABSTRACT :	IS0 Technical Committee TC204, Traffic I Human Factors and Man-Machine-Interfac	
PROJECTED USE :	Human Factors	
SERVICE GROUP	: All	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	PWI1 3.3	
ORGANIZATION :	International Standards Organization	
TITLE :	Define and prioritize standards requirements.	
ABSTRACT :	ISO Technical Committee TC204, Traffic Information and Control Systems, WGI3, Human Factors and Man-Machine-Interface (MMI), proposed effort.	
PROJECTED USE :	Human Factors	
SERVICE GROUP	: All	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	PWII 3.4	
ORGANIZATION :	International Standards Organization	
TITLE :	Develop IS0 standards proposals.	
ABSTRACT :	ISO Technical Committee TC204, Traffic Information and Control Systems, WG13, Human Factors and Man-Machine-Interface (MMI), proposed effort.	
PROJECTED USE :	Human Factors	
SERVICE GROUP	: All	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	UCRL-15673	

ORGANIZATION :	Lawrence Livermore National Laboratory	
TITLE :	Human Factors Design Guidelines for Maintainability of DOE Nuclear Facilities	
ABSTRACT:	Guidelines concerned with design features of DOE nuclear facility repair and maintenance activities	
PROJECTED USE :	Human Factors	
SERVICE GROUP :	ATMS, APTS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	UMTRI-93-21	
ORGANIZATION :	University of Michigan Transportaion Research Institute	
TITLE :	Suggested Human Factors Design Guidelines for Driver Information Systems	
ABSTRACT :	Guidelines for IVHS-related driver ingformation systems. Describes how to make such systems safe and easy to use. Includes manual controls, spoken input, etc.	
PROJECTED USE :	Human Factors	
SERVICE GROUP :	Vehicles	
STATUS :	Draft	EST-COMP DATE : 1995

#### Interface

NUMBER :	ANSI TI.401-88
ORGANIZATION :	American National Standards Institute
TITLE :	Interfaces to analog switched access.
ABSTRACT :	

PROJECTED USE	Interface	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	ANSI TI.407-90	
ORGANIZATION :	American National Standards Institute	
TITLE :	Interfaces, analog special access.	
ABSTRACT :		

PROJECTED USE	: Interface	
SERVICE GROUP	: ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

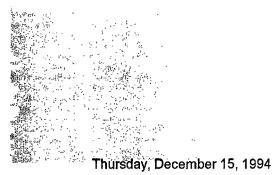
NUMBER :	IEEE 696-I 983
ORGANIZATION :	Institute of Electrical and Electronics Engineers
TITLE :	Standard 696 Interface Device.
ABSTRACT :	

PROJECTED USE : Interface SERVICE GROUP : ATMS STATUS : Approved

EST-COMP DATE : Complete

# Interface

NUMBER :	IEEE 949	
ORGANIZATION :	Institute of Electrical and Electronics Engin	neers
TITLE :	Trial-Use Standard for Media Independent	Information Transfer.
ABSTRACT :	Draft Standard for media independent inte	erface information transfer.
PROJECTED USE	: Interface	
SERVICE GROUP	: ATMS	
STATUS :	Draft	EST-COMP DATE : Unknown





# Standards and Protocols Catalog

# **Multimodal Freight**

NUMBER :	IS0 10374:1991	
ORGANIZATION :	International Standards Organization	
TITLE :	Freight Containers - Automatic Identification	n.
ABSTRACT :	Shipping container identification system.	
PROJECTED USE :	Multimodal Freight, AVI	
SERVICE GROUP :	CVO.	
STATUS :	Approved	EST-COMP DATE : Complete

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NUMBER :		
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Recommended Practice for Location Ref	erence System.
ABSTRACT :	Recommended practice for a Geodetic lo transfer between different digital map date	• •
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATIS, APTS, CVO, Vehicles	
STATUS :	Proposed	EST-COMP DATE : Dec 1995
NUMBER :		
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Recommended Practice for Navigation M	lessage Set.
ABSTRACT :	Recommended practice defining a messa message set is to be a proper subset of th	
PROJECTED USE :	Vehicles, Emergency	
SERVICE GROUP :	ATIS, APTS, CVO, Vehicles	
STATUS :	Draft	EST-COMP DATE : Sep 1995
NUMBER :	DANA	
ORGANIZATION :	Oak Ridge National Laboratory	
TITLE :	IVHS Location Referencing System: Dyn Specification.	amic Assignment of Network Attributes
ABSTRACT :	Draft Version B of a proposed Intelligent Reference System.	Transportation System (ITS) Location
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATMS, ATIS, APTS, CVO, ARTS	
STATUS :	Draft	EST-COMP DATE : Unknown
NUMBER :	IEEE 172-I 983	

ORGANIZATION : Institute of Electrical and Electronics Engineers

TITLE : Standard Definitions of Navigation Aid Terms.

	Navigation	
ABSTRACT :	Standard terms and definitions for navigati	on aids.
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IEEE 173-I 959	
ORGANIZATION :	Institute of Electrical and Electronics Engir	neers
TITLE :	Navigation Aids.	
ABSTRACT :	Direction finder measurements.	
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER:	J1663	
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Truth-In-Labeling Standard for Digital Map	Databases
ABSTRACT :	Truth in labeling standard for map databas for labeling contents of map database.	ses for private vehicles. Provides criteria
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATIS, APTS, ATMS, vehicles	
STATUS :	Draft	EST-COMP DATE : Dec 1995
NUMBER :	NAD 27	
ORGANIZATION :	United States Geodetic Service	
TITLE :	North American Datum - 1927.	
ABSTRACT :	Geodetic datum for the North American Cobased on NAD 27 geodetic constants.	ontinent per 1927. Most US maps are
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATMS, ATIS, APTS, CVO, Vehicles.	
STATUS :	Approved	EST-COMP DATE : Complete

Thursday, December 15,1994

NUMBER :	NAD 83	
ORGANIZATION :	United States Geodetic Service	
TITLE :	North American Datum - 1983.	
ABSTRACT :	Geodetic datum for the North American C based on NAD 83 geodetic constants.	Continent per 1983. Some US maps are
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATMS, ATIS, APTS, CVO, Vehicles.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	NP1I.I	
ORGANIZATION :	International Standards Organization	
TITLE :	Position location performance test.	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Route Guidance and Navigation Systems,	Information and Control Systems, WG1 1, , proposed effort.
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER:	NPI 1.2	
ORGANIZATION :	International Standards Organization	
TITLE :	GPS Sensor interface for in-vehicle navig	ation system.
ABSTRACT :	IS0 Technical Committee TC204, Traffic Route Guidance and Navigation Systems	Information and Control Systems, WGI I, , proposed effort.
PROJECTED USE :	Navigation	
SERVICE GROUP :	Vehicles	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	NP11.3	
ORGANIZATION :	International Standards Organization	
TITLE :	Non-GPS navigation system sensor interf	faces.

ABSTRACT : ISO Technical Committee TC204, Traffic Information and Control Systems, WGI I, Route Guidance and Navigation Systems, proposed effort.

EST-COMP DATE : 1997

- **PROJECTED USE :** Navigation
- SERVICE GROUP : Vehicles

STATUS : Proposed

NUMBER :	NPI 1.4	
ORGANIZATION :	International Standards Organization	
TITLE :	Route guidance information interface to MMI.	
ABSTRACT :	ISO Technical Committee TC204, Traffic Information and Control Systems, WGII, Route Guidance and Navigation Systems, proposed effort.	
PROJECTED USE :	Navigation	
SERVICE GROUP :	Vehicles	
STATUS :	Proposed	EST-COMP DATE : 1997

NUMBER:	NPI 1.5	
ORGANIZATION :	International Standards Organization	
TITLE :	Communicaions interface CPU	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information Route Guidance and Navigation Systems, proposed e	
PROJECTED USE:	Navigation	
SERVICE GROUP :	Vehicles	
STATUS :	Proposed EST-COM	/IP DATE : 1997
NUMBER:	NP3.3	
ORGANIZATION :	International Standards Organization	
TITLE :	Referencing Procedure	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Information TICS Database Technology, proposed effort.	and Control Systems, WG3
PROJECTED USE :	Navigation	
SERVICE GROUP :	All	

STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	PWI11.1	
ORGANIZATION :	International Standards Organization	
TITLE :	Map database requirements	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Route Guidance and Navigation Systems,	
PROJECTED USE :	Navigation	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, Vehicles	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	RTCM SC1 04	
ORGANIZATION :	Radio Technical Commission for Maritime	Service
TITLE :	RTCM Recommended Standard for Differ	ential NAVSTAR GPS Service.
ABSTRACT :	Data formats and protocol for differential correction signals for GPS. Decreases GPS positioning error from approx 100 m Spherical Error Probable (SEP) (with selective availability) or 16 m SEP (nominal GPS specified accuracy) to 1 - IO m SEP.	
PROJECTED USE :	Navigation	
SERVICE GROUP :	Vehicles	
STATUS :	Approved	EST-COMP DATE : Jan 1994
NUMBER :		
	WGS 84	
ORGANIZATION :	WGS 84 United States Department of Defense	
ORGANIZATION :	United States Department of Defense	
ORGANIZATION : TITLE :	United States Department of Defense World Geodetic System - 1984. Geodetic constants and datum used with	
ORGANIZATION : TITLE : ABSTRACT :	United States Department of Defense World Geodetic System - 1984. Geodetic constants and datum used with Constants for transformation to other datu	

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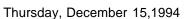
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## **Navigation**





# **Operating System**

NUMBER :	ANSI/IEEE 1003.1	
ORGANIZATION :	Institute of Electrical and Electronics Engineers	
TITLE :	Portable Operating System Interface (POSIX) for Computer Environments	
ABSTRACT :	Standard for UNIX. Compatible with multiple, different computer hardware systems	5.
PROJECTED USE:	Computer operating system	
SERVICE GROUP :	ATIS, ATMS, APTS.	
STATUS :	Approved <b>EST-COMP DATE</b> : Complete	
NUMBER :	FIPS 151-I	
ORGANIZATION :	National Bureau of Standards	
TITLE :	Federal Information Processing Standard, POSIX	
ABSTRACT :	U.S. Government standard for UNIX operating system.	
PROJECTED USE :	Computer operating system	
SERVICE GROUP :	ATMS, ATIS, APTS, ARTS, CVO	
STATUS :	Approved EST-COMP DATE : Complete	
NUMBER :	IS0 9945-I	
ORGANIZATION :	International Standards Organization	
TITLE :	Portable Operating System Interface (Posix).	
ABSTRACT :	UNIX operating system for multiple, different hardware.	
PROJECTED USE :	Computer operating system	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
STATUS :	Approved <b>EST-COMP DATE</b> : Complete.	

# Packet Switching

NUMBER:	ISO 3309:1991	
ORGANIZATION :	International Standards Organization	
TITLE :	Data Communications - HLDC Procedures - Frame Structure.	
ABSTRACT :	High level digital data link control - Link pr	rotocols.
PROJECTED USE :	Packet switching	
SERVICE GROUP :	ATMS, ATIS, APTS.	
STATUS :	Approved	EST-COMP DATE : 1991
NUMBER:	IS0 4335:1991	
ORGANIZATION :	International Standards Organization	
TITLE :	Data Communications - High Level Data	Link Control (HLDC) Procedures.
ABSTRACT :	HLDC procedures (Link protocols.)	
PROJECTED USE :	Packet switching	
SERVICE GROUP :	ATMS, ATIS, APTS.	
STATUS :	Approved	EST-COMP DATE : 1991
NUMBER :	ISO 8208:1990	
ORGANIZATION :	International Standards Organization	
TITLE :	Information Technology - Data Communic Data Terminal Equipment.	ations X.25 Packet Layer Protocol for
ABSTRACT :	Network protocol for data communications	5.
PROJECTED USE :	Packet Switching	
SERVICE GROUP :	ATMS, ATIS, APTS.	
STATUS :	Approved	EST-COMP DATE : 1990

## Parallel Data Transfer

NUMBER :	EIA RS-422	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Electrical Characteristics of Balanced Volta	age Digital Interface Circuits
ABSTRACT :	Standard for parallel data transfer.	
PROJECTED USE :	Parallel data transfer	
SERVICE GROUP :	All	
STATUS :	Approved	EST-COMP DATE : Complete





Thursday, December 15, 1994

# Programming

NUMBER :	IEEE 488.1-1987		
ORGANIZATION :	Institute of Electrical and Electronics Engineers		
TITLE :	Standard Digital interface for Programmab	ble Instrumentation	
ABSTRACT :	Interface standard for connecting test equi	Interface standard for connecting test equipments to computers.	
PROJECTED USE :	Programming		
SERVICE GROUP :	ATMS		
STATUS :	Approved	EST-COMP DATE : Complete	
NUMBER:	IEEE 488.2-1 987		
ORGANIZATION :	Institute of Electrical and Electronics Engin	ieers	
TITLE :	Standard Codes, Formats, Protocols, and 488.1 Standard Digital Interface for Progra		
	• •		
ABSTRACT :	Formats, protocols, codes and commands equipments.		
ABSTRACT : PROJECTED USE :	equipments.		
	equipments. Programming		
PROJECTED USE :	equipments. Programming		

# Quality

NUMBER:	NP2.1	
ORGANIZATION :	International Standards Organization	
TITLE :	Levels of Safety & Environmental Criticality	
ABSTRACT :	ISO Technical Committee TC204, Traftic Information and Control Systems, WG2 Quality and Reliability Requirements, proposed effort.	
PROJECTED USE :	Quality	
SERVICE GROUP :	All	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	PWI2.1	
ORGANIZATION :	International Standards Organization	
TITLE :	Quality and Reliability Requirements Gloss	ary
ABSTRACT :	ISO Technical Committee TC204, Traffic Information and Control Systems, WG2 Quality and Reliability Requirements, proposed effort.	
PROJECTED USE:	Quality	
SERVICE GROUP :	All	
STATUS :	Proposed	EST-COMP DATE : 1996
NUMBER :	PWI2.2	
ORGANIZATION :	International Standards Organization	
TITLE :	Annotated Bibliography	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Ir Quality and Reliability Requirements, propo	
PROJECTED USE :	Quality	
SERVICE GROUP :	All	
STATUS :	Proposed	EST-COMP DATE : 1996

# **Quality Assurance**

NUMBER :	IEEE 9121	
ORGANIZATION :	Institute of Electrical and Electronics Engi	neers
TITLE :	Software Quality Assurance.	
ABSTRACT :	Software (computer programs) quality as	surance provisions.
PROJECTED USE :	Software quality	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO, ARTS.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	IS0 9000-I	
ORGANIZATION :	International Standards Organization	
TITLE :	Quality Management and Quality Assuran Selection and Use.	ce Standards - Part 1: Guidlines for
ABSTRACT :		
PROJECTED USE :	Quality Assurance	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DATE : 1994
NUMBER:	IS0 9000.3	
ORGANIZATION :	International Standards Organization	
TITLE :	IS0 9000 International Standards for Qua	lity Management
ABSTRACT :		
PROJECTED USE :	Quality Assurance	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DATE : 1994
NUMBER:	IS0 9001-94	

JPL D-12066 Rev A

# **Quality Assurance**

<b>ORGANIZATION</b> : TITLE :	International Standards Organization Quality Systems - Model for Quality Assura	ace in Design. Development. Production.
	Installation, and Service.	
ABSTRACT :		
PROJECTED USE :	Quality Assurance	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DATE : 1994
NUMBER :	IS0 9002-94	
<b>ORGANIZATION</b> :	International Standards Organization	
TITLE :	Quality Systems - Model for Quality Assura	ance in Production, Installation, and Service
ABSTRACT :		
PROJECTED USE :	Quality Assurance	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DATE : 1994
NUMBER:	IS0 9003-94	
ORGANIZATION :	International Standards Organization	
TITLE :	Quality Systems - Model for Quality Assurance in Final Inspection and Test.	
ABSTRACT :		
PROJECTED USE :	Quality Assurance	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DATE : 1994
NUMBER :	IS0 9004-I	
Thursday, Decembe	r 15,1994	Page 77

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## **Quality Assurance**

 ORGANIZATION :
 International Standards Organization

 TITLE :
 Quality Management and Quality Systems Elements - Part 1: Guidlines

 ABSTRACT :
 International Standards Organization

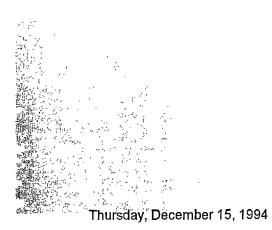
PROJECTED USE :	Quality Assurance	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DATE : 1994

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Thursday, December 15,1994

# Safety

NUMBER :	PW114.2	
ORGANIZATION :	International Standards Organization	
TITLE :	Collision mayday.	
ABSTRACT :	ISO Technical Committee TC204, Traffic Information and Control Systems, WG14, Vehicle/Roadway Warning & Control Systems, proposed effort.	
PROJECTED USE :	Safety	
SERVICE GROUP :	Vehicles	
STATUS :	Proposed	EST-COMP DATE : 1996





Page 79

# Security

NUMBER :	DOD 5200.28-STD	
ORGANIZATION :	United States Department of Defense	
TITLE :	Department of Defense Trusted Computer System Evaluation Criteria (TCSEC)	
ABSTRACT :	Defines the basic security features of a trusted computer system and the assurance levels required for protecting information. Various levels and complexities of computer security and protection of information are discussed in detail.	
PROJECTED USE :	Security	
SERVICE GROUP :	APTS, ATMS, ETC, CVO	
STATUS :	Approved	EST-COMP DATE : Dee 1985
NUMBER :	EIA RS-170	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Electrical Performance Standards for Mono	ochrome Television Studio Facilities.
ABSTRACT :	Basic standard for black and white 525 line television.	
PROJECTED USE :	Traffic sensors Security	
SERVICE GROUP :	ATIS, ATMS.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	EIA-330	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Electrical Performance Standards for Closed Circuit Television Camera 525/60 Interlaced 2:I.	
ABSTRACT :	Basic TV Camera, 525 lines per screen, 60 frames per second, two scans per frame.	
PROJECTED USE :	Security	
SERVICE GROUP :	ATMS, APTS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	FIPS 185	
ORGANIZATION :	National Bureau of Standards	
TITLE :		
	Federal Information Processing Standard #	185, Escrowed Encryption Standard

#### Security

- ABSTRACT : This standatrd enables law enforcement agencies to conduct "lawfully" authorized electronic surveillance by having access to the encryption key. Mandatory for Federal computer systems, voice, facsimile and computer information transmitted by telephone.
- **PROJECTED USE :** Communications, Security
- SERVICE GROUP : FBI ?
- STATUS: Apprpved EST-COMP DATE : Feb 1994

NUMBER:	FIPS 46
NUMBER.	FIF 3 40

- **ORGANIZATION :** National Bureau of Standards
- TITLE : Federal Information Processing Standard, Data Encryption Standard
- ABSTRACT : Published by NBS for public encryption/security use, available on VLSI chips. Two modes: Key Auto Key (KAK 64 bit block encryption) and Cipher Text Auto Key (CTAK 8 bit block encryption). CTAK is much slower, and provides greater protection than KAK.

PROJECTED USE : Communications, Privacy

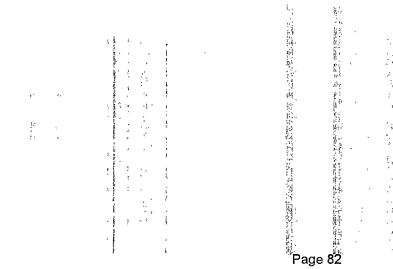
- SERVICE GROUP : Electronic Funds Transfer
- STATUS : Approved

EST-COMP DATE : 1977

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### Sensors

NUMBER :		
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	R. P. for On-board Land Vehicle Positioning Device Interface.	
ABSTRACT :	Recommended Practice for Interface requirements, messages, and protocols for position device (e.g., GPS receiver) to an in-vehicle navigation computer.	
PROJECTED USE :	Vehicles, Navigation	
SERVICE GROUP :	ATIS, APTS, CVO, Vehicles	
STATUS :	Proposed	EST-COMP DATE : Sep 1995



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Thursday, December 15,1994

### **Serial Data Transfer**

NUMBER:	EIA RS-232	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange.	
ABSTRACT :	Serial Data Transfer	
PROJECTED USE :	Serial data transfer	
SERVICE GROUP	: All	
STATUS :	Approved	EST-COMP DAT'E : Complete
NUMBER :	EIA RS-485	
ORGANIZATION :	Electronics Industry Association	
TITLE :	Standard for Electrical Characteristics of G Balanced Digital Multipoint Systems.	enerators and Rece ivers for Use in

- **ABSTRACT :** Serial data transfer for multipoint/multidrop systems.
- PROJECTED USE : Serial data transfer
- SERVICE GROUP : ATIS,CVO.
- STATUS : Approved

**EST-COMP DATE** : npril 1983

#### 'Television

NUMBER :	MPE.G 3

**ORGANIZATION** : Motion Pictures Expert Group

TITLE :

ABSTRACT: A video data coding and compression standard being formd to allow high definition vid eo television and stereo audio to be transmitted over existing 5 MHz bandwidth ch annels. May reduce standard TV to approx. 64 kHz for transmission over ISDN circuits.

- PROJECTED USE : T elevision, Monitoring, Security
- SERVICE GROUP : ATMS, APTS
- STATUS : Draft

ORGANIZATION : National Television System Committee

TITLE :

- **ABSTRACT** : U.S. Standard for color television broadcast.
- PROJECTED USE: Color TV
- **SERVICE GROUP :** ATIS, ATMS, APTS, CVO.
- **STATUS :** Approved

EST-COMP DATE : Complete.

EST-COMP DATE : Unknown

## **Terminal User Interface**

NUMBER :	FIPS 158	
ORGANIZATION :	National Bureau of Standards	
TITLE :	Federal Information Processing Standard,	X-windows.
ABSTRACT :	U.S. Government standard for MIT X-windows. X-windows is a terminal based graphics user interface.	
PROJECTED USE :	Terminal MMI	
SERVICE GROUP :	ATIS, ATMS, APTS, CVO.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	X-11	
ORGANIZATION :	Massachusetts Institute of Technology	
TITLE :	X-Windows, Version 11.	
ABSTRACT :	Standard for MIT X-windows. X-windows is	s a terminal based graphics user interface.
PROJECTED USE :	Terminal MMI	
SERVICE GROUP :	APTS, CVO, others?	
STATUS :	Approved	EST-COMP DATE : Complete.

NUMBER :		
ORGANIZATION :	CALTRANS	
TITLE :	Advanced Traffic Signal Controller	
ABSTRACT :	Specifications for a general purpose control computer designed for complex transportation applications. Includes advanced traffic control software specification.	
PROJECTED USE :	Traffic control	
SERVICE GROUP	ATMS	
STATUS :	Draft	EST-COMP DATE : Unknown
NUMBER :		
ORGANIZATION :	CALTRANS	
TITLE :	Traffic Signal Communication Protocol	
ABSTRACT :	Asynchronous communications protocol fo	r model 170 controller.
PROJECTED USE :	Traffic control	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	CMS	
ORGANIZATION :	CALTRANS	
TITLE :	Specifications for Changeable Message Si	gn System.
ABSTRACT :		
	Troffia Control information	
PROJECTED USE :		
SERVICE GROUP :	ATMS, ATIS, APTS	EST-COMP DATE : Complete
STATUS :	Approved	
NUMBER :	ICS I-1990	
ORGANIZATION :	National Electrical Manufacturers Associat	
TITLE :	General Standards for Industrial Control a	nd Systems.

PROJECTED USE :	Traffic control	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	ICS 4-1 983	
ORGANIZATION :	National Electrical Manufacturers Association	ion
TITLE :	Terminal Blocks for Industrial Use.	
ABSTRACT :		
PROJECTED USE :	Traffic control	
SERVICE GROUP :		
STATUS :	Approved	EST-COMP DATE : Complete
	, pp. or ou	
NUMBER:	ICS 6-I 988	
	National Electrical Manufacturers Associat	ion
TITLE :	Enclosures for Industrial Control and Systems.	
ABSTRACT :	Enclosure (electronic cabinet) requirement	
PROJECTED USE :	Traffic control	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	ITE ST-01 7	
ORGANIZATION :	Institute of Transportation Engineers	
TITLE :	Equipment and Material Standards of the	Institute of Transportation Engineers.
ABSTRACT :	Covers pre-timed and actuated controllers	, cabinets and detectors.
PROJECTED USE :	Traffic control	
SERVICE GROUP :	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete

NUMBER :	Model 170	
ORGANIZATION :	CALTRANS	
TITLE :	Traffic Signal Control Equipment Specification.	
ABSTRACT :	Hardware specifications for Model 170 controller unit and associated program modules, flasher units, switch packs, sensors, modems, cabinets and support assemblies.	
PROJECTED USE :	Traffic Control	
SERVICE GROUP	ATMS	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	NEMA 0183	
ORGANIZATION :	National Electrical Manufacturers Associa	tion
TITLE :	Asynchronous serial data (?)	
ABSTRACT :		
	<b>T</b> (11)	
PROJECTED USE :		
SERVICE GROUP :		
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER :	NEMA 250-I 988	
NUMBER : ORGANIZATION :	NEMA 250-I 988 National Electrical Manufacturers Associa	tion
		tion
ORGANIZATION :	National Electrical Manufacturers Associat Enclosures for Electronic Equipment.	
<b>ORGANIZATION</b> : TITLE :	National Electrical Manufacturers Associat Enclosures for Electronic Equipment. Enclosure (electronic cabinet) requirement	
ORGANIZATION : TITLE : ABSTRACT :	National Electrical Manufacturers Associat Enclosures for Electronic Equipment. Enclosure (electronic cabinet) requirement Traffic control	
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE :	National Electrical Manufacturers Associat Enclosures for Electronic Equipment. Enclosure (electronic cabinet) requirement Traffic control	
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP :	National Electrical Manufacturers Associat Enclosures for Electronic Equipment. Enclosure (electronic cabinet) requirement Traffic control ATMS	its.
ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP :	National Electrical Manufacturers Associat Enclosures for Electronic Equipment. Enclosure (electronic cabinet) requirement Traffic control ATMS	its.

TITLE :	Internal and external interfaces for traffic systems and components.	information, management and control
ABSTRACT :	IS0 Technical Committee TC204, Traffic I Integrated Transport Information Managen	
PROJECTED USE :	Traffic Management	
SERVICE GROUP :	ATMS, ATIS	
STATUS :	Proposed	EST-COMP DATE : 1997
NUMBER :	NTCIP	
ORGANIZATION :	National Electrical Manufacturers Associa	tion
TITLE :	National Traffic Control / IVHS Communica	ations Protocol (NTCIP).
ABSTRACT	Traffic control interface and protocols to s management applications.	ensors, control devices (signals) and traffic
PROJECTED USE :	Traffic control	
SERVICE GROUP :	ATMS.	
STATUS :	Draft	EST-COMP DATE : Unknown
STATUS :	Draft	EST-COMP DATE : Unknown
STATUS : NUMBER :	Draft PW19.1	EST-COMP DATE : Unknown
		EST-COMP DATE : Unknown
NUMBER :	PW19.1	
NUMBER : ORGANIZATION :	PW19.1 International Standards Organization Define traffic information, management an	d control systems with respect to Information and Control Systems, WG9,
NUMBER : ORGANIZATION : TITLE :	PW19.1 International Standards Organization Define traffic information, management an concepts functions, etc. IS0 Technical Committee TC204, Traffic	d control systems with respect to Information and Control Systems, WG9,
NUMBER : ORGANIZATION : TITLE : ABSTRACT :	PW19.1 International Standards Organization Define traffic information, management an concepts functions, etc. ISO Technical Committee TC204, Traffic Integrated Transport Information Manager	d control systems with respect to Information and Control Systems, WG9,
NUMBER : ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE :	PW19.1 International Standards Organization Define traffic information, management an concepts functions, etc. ISO Technical Committee TC204, Traffic Integrated Transport Information Manager Traffic Management	d control systems with respect to Information and Control Systems, WG9,
NUMBER : ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP :	PW19.1 International Standards Organization Define traffic information, management and concepts functions, etc. ISO Technical Committee TC204, Traffic Integrated Transport Information Manager Traffic Management ATMS, ATIS	d control systems with respect to Information and Control Systems, WG9, nent and Control, proposed effort.
NUMBER : ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP :	PW19.1 International Standards Organization Define traffic information, management and concepts functions, etc. ISO Technical Committee TC204, Traffic Integrated Transport Information Manager Traffic Management ATMS, ATIS	d control systems with respect to Information and Control Systems, WG9, nent and Control, proposed effort.
NUMBER : ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP : STATUS :	PW19.1 International Standards Organization Define traffic information, management an concepts functions, etc. ISO Technical Committee TC204, Traffic Integrated Transport Information Manager Traffic Management ATMS, ATIS Proposed	d control systems with respect to Information and Control Systems, WG9, nent and Control, proposed effort.
NUMBER : ORGANIZATION : TITLE : ABSTRACT : PROJECTED USE : SERVICE GROUP : STATUS : NUMBER :	PW19.1 International Standards Organization Define traffic information, management an concepts functions, etc. ISO Technical Committee TC204, Traffic Integrated Transport Information Manager Traffic Management ATMS, ATIS Proposed Series 68	d control systems with respect to Information and Control Systems, WG9, nent and Control, proposed effort.

ABSTRACT :

PROJECTED	USE :	Traffic	Control	

SERVICE GROUP : ATMS

STATUS : Draft

EST-COMP DATE : Unknown

EST-COMP DATE : Complete

- NUMBER : TS-1
- **ORGANIZATION :** National Electrical Manufacturers Association
- TITLE : Traffic Control Systems
- **ABSTRACT :** Traffic Control Systems for solid state actuated traffic signal controllers, detector amplifiers, conflict monitors, backpanels, cabinets, and load switches.
- **PROJECTED USE** : Traffic control
- SERVICE GROUP : ATMS
- STATUS : Approved
- NUMBER : TS-2

**ORGANIZATION** : National Electrical Manufacturers Association

- TITLE : Traffic Control Systems
- ABSTRACT : Traffic Control Systems for solid state actuated traffic signal controllers (Types 1 and 2), detector amplifiers, conflict monitors, backpanels, cabinets, and load switches.
- PROJECTED USE : Traffic control

SERVICE GROUP : ATMS

STATUS : Approved EST-COMP DATE : Complete

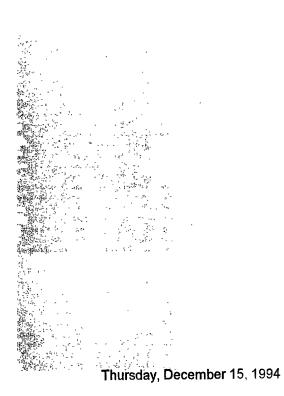
NUMBER :	Type 179
ORGANIZATION :	New York State DOT
TITLE :	Type 179 Traffic Control Hardware Specifications.
ABSTRACT :	

PROJECTED USE : Traffic Control SERVICE GROUP : ATMS Thursday, December 15, 1994

STATUS :

Approved

EST-COMP DATE : Complete





Page 91

#### **Traveler Information**

NUMBER :

ORGANIZATION :	Society of Automotive Engineers	
TITLE :	ITIIS Data Dictionary	
ABSTRACT :	Data dictionary for International Travelers Information Interchange System (ITIIS) message list.	
PROJECTED USE :	Traveler Information	
SERVICE GROUP :	ATIS	
STATUS :	Proposed	EST-COMP DATE : Dec 1995

#### NUMBER:

ORGANIZATION :	Society of	Automotive	Engineers
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TITLE : International Traveler Information Interchange System

ABSTRACT : Application (top) level standard for International Traveler Information Interchange System (ITIIS) traffec data interchange between a traffic management center of traffic information system (TMCITIS) and a driver, traveler, or vehicle.

PROJECTED USE : TMC, Vehicle, Transit

SERVICE GROUP : ATIS

STATUS : Proposed

#### NUMBER :

ORGANIZATION :	Society of Automotive Engineers		
TITLE :	, ,		
	R. P. for Traveler Information System (TIS	) Data, Dictionary.	
ABSTRACT :	Data dictionary for the overall Intelligent transportation System (ITS) traveler information system message list. To be at the bit level detail.		
PROJECTED USE :	Traveler Information		
SERVICE GROUP :	ATIS, APTS, CVO, ARTS, ATMS, etc		
STATUS :	Proposed	EST-COMP DATE : Dec 1995	

EST-COMP DATE : Dec 1995

### Vehicle Area Network

NUMBER:

- **ORGANIZATION :** Society of Automotive Engineers
- TITLE : Specification and perfomance requirments for connecrtors and wiring on non-drive train Transit applications of SAE J1708

EST-COMP DATE : 1996

EST-COMP DATE : Complete

- **ABSTRACT :** Standardized wiring plan and connector standard for all devices proposed for installation on transit revenue vehicles for universal power and signal wiring.
- PROJECTED USE : Vehicle Area Network, Transit

SERVICE GROUP : APTS, Vehicles

STATUS : Draft

NUMBER : CAN

**ORGANIZATION :** Bosch/Phillips Components/Intel

TITLE : Controller Area Network

ABSTRACT : Proprietary open standard for automotive network. Chips available from Motorola, Intel, etc. Used chiefly in Europe for automobiles and lorries. High cost of application? Also ISO 11898.

- PROJECTED USE : Vehicle Area Network
- SERVICE GROUP : Vehicles
- STATUS : Apprpved

NUMBER	:	EIA IS-60

- **ORGANIZATION :** Electronics Industry Association
- TITLE : Consumer Electronics Bus (CEBus)
- ABSTRACT : Local/vehicle area network intended for consumer applications. In work for nine years low demand.
- PROJECTED USE : Vehicle Area Network
- SERVICE GROUP : Vehicles
- STATUS : Draft EST-COMP DATE : Unknown

NUMBER: ISO 11898

**ORGANIZATION :** International Standards Organization

#### Vehicle Area Network

- TITLE : Controller Area Network (CAN)
- ABSTRACT : ISO version of the Bosch developed Controller Area Network (CAN) in-vehicle area network for automobiles and lorries. Supported by a number of European manufacturers.
- PROJECTED USE : Vehicle Area Network
- SERVICE GROUP : Vehicles, APTS
- STATUS : Approved EST-COMP DATE : Complete

NUMBER :	J1213
ORGANIZATION :	Society of Automotive Engineers
TITLE :	Glossary of vehicle networks for multiplexing and data communications.
ABSTRACT :	

PROJECTED	USE :	Vehicle	Area	Network

SERVICE GROUP : Vehicles

STATUS : Approved

EST-COMP DATE : Complete

**EST-COMP DATE : Complete** 

NUMBER: J1455

**ORGANIZATION :** Society of Automotive Engineers

TITLE : Joint SAE/TMC Recommended Enviornmental Practices for Electronic Equipment Design of Heavy Duty Trucks and Busses

**ABSTRACT :** Design Goals for climatic, mechanical, chemical, electrical and **dynamic conditions** found on, and generated by, heavy duty trucks and buses.

PROJECTED USE : Vehicle Area Network

SERVICE GROUP : APTS, CVO, Vehicles

STATUS : Approved

ABSTRACT :	15 1001	Davia
TITLE :	J1850 verification test procedures	
ORGANIZATION :	Society of Automotive Engineers	
NUMBER:	J1699	

Thursday, December 15,1994

#### Vehicle Area Network

PROJECTED USE : Vehicle Area Network

SERVICE GROUP : Vehicles

- STATUS : Approved
- NUMBER : J1708

ORGANIZATION : Society of Automotive Engineers

- TITLE : Truck and Bus Practice. Serial Data Communications between Microcomputer Systems in Heavy Duty Vehicle Applications.
- ABSTRACT : Serial Data Communications Between Microcomputer Systems in Heavy Duty Vehicle Applications. Details the hardware interface and outlines the communications protocol.
- PROJECTED USE : Vehicle area network

SERVICE GROUP : APTS, CVO

- STATUS : Approved
- NUMBER: J1850

ORGANIZATION : Society of Automotive Engineers

- TITLE : Class B Communication Network Interface.
- ABSTRACT : Vehicle local area network. Each automobile manufacturer builds different versions.

PROJECTED USE : Vehicle area network

SERVICE'GROUP :

STATUS : Approved

#### EST-COMP DATE : Complete

EST-COMP DATE : Complete

EST-COMP DATE : Complete

NUMBER:	J2178/1	
ORGANIZATION :	Society of Automotive Engineers	
TITLE :	Class B Data Communications Network M	essages
ABSTRACT :	Describes actual messages transmitted over	er a J1850 vehicles area network.
PROJECTED USE :	Vehicle Area Network	
SERVICE GROUP :	Vehicles	
STATUS :	Approved	EST-COMP DATE : Complete

#### Vehicle Data Interface

NUMBER : J1587

ORGANIZATION : Society of Automotive Engineers

**TITLE :** Joint SAE/TMC R. P. for Electronic Data Interchange Between Microcomputer Systems in Heavy Duty Vehicle Applications.

**ABSTRACT :** Recommended practice defining on-board vehicle information interchange messages and formats. Developed for heavy vehicles.

**PROJECTED USE** : Vehicles

SERVICE GROUP : CVO.

STATUS : Approved

- NUMBER : JI922
- **ORGANIZATION :** Society of Automotive Engineers

**TITLE :** Power-train Control Interface for Electronic Controls;Used in Medium and Heavy Duty Diesel on Highway Vehicle Applications.

**ABSTRACT :** Vehicle information interchange.

- PROJECTED USE : Vehicle data transfer
- SERVICE GROUP : CVO.
- STATUS : Approved

#### EST-COMP DATE : Complete

**EST-COMP DATE : Complete** 

## **Vehicle Identification**

NUMBER:	IS0 3779	
ORGANIZATION :	International Standards Organization	
TITLE :	Standard Vehicle Identification Numbering	(VIN) System.
ABSTRACT :	Numbering system requirements for Vehicle Identification Numbering (VIN).	
PROJECTED USE :	Vehicle Identification Number	
SERVICE GROUP :	ATMS, CVO, APTS, ETC.	
STATUS :	Approved	EST-COMP DATE : Complete
NUMBER:	PW15.2	
ORGANIZATION :	International Standards Organization	
TITLE :	FTC Vehicle classification	
ABSTRACT :	IS0 Technical Committee TC204, Traffic Ir Fee & Toll Collection (FTC), proposed effo	
PROJECTED USE :		

- SERVICE GROUP : ATIS, APTS, ATMS, CVO
- STATUS : Proposed

EST-COMP DATE : 1996

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#### Vehicles

NUMBER :

**ORGANIZATION :** Society of Automotive Engineers

TITLE : R. P. for In Vehicle Sensor Interface for IVHS Applications.

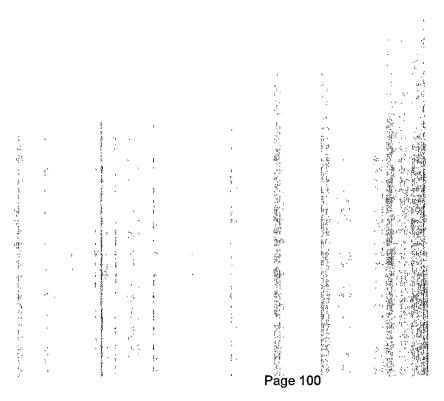
- ABSTRACT : Recommended Practice for interface requirements for vehicle sensors, including gyroscopes, compasses, odometer, etc. to an in-vehicle navigation computer.
- **PROJECTED USE** : Vehicles.
- SERVICE GROUP : ATIS, APTS, CVO, Vehicles
- STATUS : Proposed

EST-COMP DATE : Dec 1995



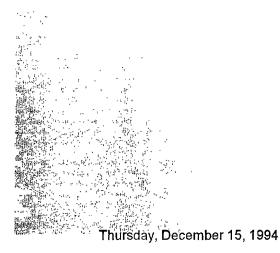
## Weather Data

NUMBER:	ITA #2		
ORGANIZATION :	Consultative Committee for International T	Felegraph and Telephone	
TITLE :	International Telecommunications Alphabe	t #2, weather alphabet.	
ABSTRACT :	Telecommunications alphabet used to transmit weather symbols and data on a world wide basis.		
PROJECTED USE :	Weather Data		
SERVICE GROUP :	ATMS, ATIS.		
STATUS :	Approved	EST-COMP DATE : Complete	



### Weigh In Motion

NUMBER:ASTM E-I 318-90ORGANIZATION :American Society for Test and MeasurementTITLE :Standard Specification for Highway Weigh-in-Motion (WIM) Systems with User<br/>Requirements and Test Method.ABSTRACT :Highway weigh in motion.PROJECTED USE :Weigh in motionSERVICE GROUP :ATMS. CVOSTATUS :Approved





Page 101



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Publication No. FHWA-JPO-95-005 HVH-I/3-95(1 M)EW



