

by Othmar Kyas

Standards

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Standards

I.1 10/100/1,000 MBit/s Ethernet:

http://grouper.ieee.org/groups/802/3/index.html

IEEE Std 802.3, Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer IEEE Std 802.3a-1988, 10 Mb/s MAU 10BASE2 (Clause 10). IEEE Std 802.3b-1985, Broadband Medium Attachment Unit and Broadband Medium Specifications, Type 10BROAD36 (Clause 11). IEEE Std 802.3c-1985, Repeater Unit for 10 Mb/s Baseband Networks (Subclauses 9.1-9.8) IEEE Std 802.3d-1987, Medium Attachment Unit and Baseband Medium Specification for a Vendor Independent Fiber Optic Inter Repeater Link (Section 9.9). IEEE Std 802.3e-1987, Physical Signaling, Medium Attachment, and Baseband Medium Specifications, Type 1BASE5 (Clause 12) IEEE Std 802.3h-1990, Layer Management (Clause 5). IEEE Std 802.3i-1990, System Considerations for Multisegment 10 Mb/s Baseband Networks (Clause 13) AND Twisted-Pair Medium Attachment Unit (MAU) and Baseband Medium, Type 10BASE-T (Section 14). IEEE Std 802.3j-1993, Fiber Optic Active and Passive Star-Based Segments, Type 10BASE-F (Clauses 15-18). IEEE Std 802.3k-1992, Layer Management for 10 Mb/s Baseband Repeaters (Clause 19). IEEE Std 802.31-1992, Type 10BASE-T Medium Attachment Unit (MAU) Protocol Implementation Conformance Statement (PICS) Proforma (Subclause 14.10). IEEE Std 802.3m-1995, ... Second Maintenance Ballot. IEEE Std 802.3n-1995, Third Maintenance Ballot. IEEE Std 802.3p-1993, Layer Management for 10 Mb/s Baseband Medium Attachment Units (MAUs) (Clause 20). IEEE Std 802.3q-1993, Guidelines for the Development of Managed Objects (GDMO) (ISO 10165-4) Format for Layer-Managed Objects (Clause 5) IEEE Std 802.3r-1997, Type 10BASE5 Medium Attachment Unit PICS Proforma. IEEE Std 802.3s-1995, Fourth Maintenance Ballot. IEEE Std 802.3t-1995, Informative Annex for Support of 120 Ohm Cables in 10BASE-T Simplex Link Segment (Annex D.5). IEEE Std 802.3u-1995, Type 100BASE-T MAC Parameters, Physical Layer, MAUs, and Repeater for 100 Mb/s Operation. IEEE Std 802.3v-1995, Informative Annex for Support of 150 Ohm Cables in 10 BASE-T Link Segment (Annex D.6). IEEE Std 802.3x&y-1997, Specification for 802.3 Full Duplex Operation and Physical Layer Specification for 100 Mb/s Operation on Two Pairs of Category 3 or Better Balanced Twisted Pair Cable (100BASE-T2). IEEE Std 802.3z-1998, Physical Layers, Repeater, and Management Parameters for 1000 Mb/s Operation. IEEE Std 802.3aa-1998, ... Maintenance Revision #5 (Revisions to 100BASE-T) IEEE 802.3.ab, Physical Layer Parameters and Specifications for 1000 Mb/s Operation Over 4-Pair Category 5 Balanced Copper Cabling, Type 1000BASE 07/99 IEEE Std 802.3ac-1998, ... Supplement to IEEE Std 802.3, 1998 Edition, Carrier Sense Multiple Access with Collision Detection (CSMA/CD)-Frame Extensions for Virtual Bridged Local Area Network (VLAN) Tagging on 802.3 Networks. IEEE802.3w, Standard for Enhanced Media Access Control Algorithm IEEE 1802.3 d-1993, Supplement to IEEE Std 1802.3-1991, Local and Metropolitan Area Networks: Conformance Test Methodology: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications IEEE 802.3ae, 10 Gbit/s Ethernet PAR approved 01/00 RFC 1271 Remote Network Monitoring Management Information Base RFC 2074 Remote Network Monitoring MIB Protocol Identifiers

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I.2 Token Ring

http://www.8025.org

IEEE Std 802.5c-19 91,	$Supplement \ to \ IEEE \ Std \ 802.5-1989, \ Local \ and \ metropolitan \ area \ networks: \ Recommended \ practice \ for \ dual \ ring \ operation \ with \ wrapback \ reconfiguration.$
IEEE 802.5e,	Token ring station management entity specifications
IEEE Std 802.5j-1997,	Supplement to information technology—Telecommunications and information exchange between systems - Local and metropolitan area networks—Specific requirements —Part 5: Token Ring access method and physical layer specifications Fibre Optic Media requirements.
IEEE Std 802.5r-1997,	Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 5: Token Ring access method and physical layer specifications—Dedicated Token Ring Operation.
IEEE 802.5t,	Supplement to ISO/IEC 8802-5: 1995 Specific requirements—Part 5: Token Ring access method and physical layer specifications - 100 Mbit/s dedicated Token Ring operation over 2-pair cabling.
IEEE 802.5u,	Supplement to ISO/IEC 8802-5: 1995 Specific requirements - Part 5: Token Ring access method and physical layer specifications - 100 Mbit/s dedicated Token Ring operation over multi-mode fibre.
IEEE 802.5v,	Supplement to ISO/IEC 8802-5: 1995, Specific requirements - Part 5: Token Ring access method and physical layer specifications. Media access control parameters, physical layers, and management parameters for 1,000 Mbit/s operation or above.
RFC 1231 IEEE 802.5	Token Ring MIB

I.3 FDDI

http://www.ansi.org

ANSI X3.139-1987, ISO 9314-2:1989, Media Access Control (MAC) ANSI X3.148-1988, ISO 9314-2:1989, Physical Layer Protocol (PHY) ANSI X3.166-1990, ISO 9314-3:1990, Physical Layer, Medium Dependent (PMD) ANSI X3.229-1994, ISO 9314-6, Station Management (SMT) ANSI X3.284-1993, ISO 9314-4, Single Mode Fiber PMD (SMF-PMD) ANSI X3.237-1995, ISO 9314-4, Single Mode Fiber PMD (LCF-PMD) ANSI X3.237.1995, ISO 9314-10, Twisted Pair PMD (LCF-PMD) ANSI X3.263.1995, ISO 9314-10, Twisted Pair PMD (TP-PMD) ANSI X3.262 ISO 9314-13, Conformance Test PICS Proforma for FDDI (CT-PICS) ANSI X3.245-199x, ISO 9314-26, Abstract Test Suite for MAC (MAC-ATS) ANSI X3.248-199x, ISO 9314-21, Abstract Test Suite for PHY (PHY-ATS) ANSI X3.255-199x, ISO 9314-20, Abstract Test Suite for PMD (PMD-ATS) ANSI X379.5/92-102, Rev 1.4, Abstract Test Suite for SMT (SMT-ATS) RFC 1285, FDDI-MIB

I.4 ATM

I.4.1 ITU-T Series I: Integrated Services Digital Network

http://www.itu.ch

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[I.253.2]	Recommendation I.253.2 (08/92) - Call completion supplementary services: Call hold
[I.253.3]	Recommendation I.253.3 (07/96) - Call completion supplementary services: Completion of calls to busy subscribers
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[1.254.2]	Recommendation I.254.2 (08/92) - Multiparty supplementary services: Three-party supplementary service
[1.254.5]	Recommendation I.254.5 (05/97) - Multiparty supplementary services: Meet-me conference
[I.255.1]	Recommendation I.255.1 (08/92) - Community of interest supplementary services: Closed user group
[I.255.2]	Recommendation I.255.2 (07/96) - Community of interest supplementary services: Support of private numbering plans
[I.255.3]	Recommendation I.255.3 $(07/90)$ - Community of interest supplementary services: Multi-level precedence and preemption service (MLPP)
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[1.311]	Recommendation I.311 (08/96) - B-ISDN general network aspects
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[1.313]	Recommendation 1.313 $(09/97)$ - B-ISDN network requirements
[1.320]	Recommendation 1.320 (11/93) - ISDN protocol reference model
[1.321]	Recommendation 1.321 (04/91) - B-ISDN protocol reference model and its application
[1.522]	Recommendation 1.522 (02/99) - Generic protocol reference model for telecommunication networks
[1.524]	Decommendation 1.524 (10/51) - ISBN network architecture
[1.525]	Recommendation 1.325 (05/95) - Reference configurations for ISDN configuration types
[1.520]	Pacammandation 1.227 (02/02) P ISDN functional architecture
[1.527] [1.998/0 1909]	Recommendation 1.327 (03/93) - D-ISDN functional architecture
[1.326/Q.1202]	Recommendation 1.526/Q.1202 (09/97) - Intelligent Network - Service plane architecture
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[1.990]	Recommendation F $164/1.331$ (05/07) - The international public telecommunication numbering plan
[1.001]	Recommendation 1.233 (02/03) - Terminal selection in ISDN
[1.334]	Recommendation 1.334 (11/88) - Principles relating ISDN numbers/subaddresses to the OSI reference model
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[I.340]	. Recommendation I.340 (11/88) - ISDN connection types
[I.350]	Recommendation I.350 (03/93) - General aspects of quality of service and network performance in digital networks, including ISDNs
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[I.354]	$. Recommendation \ I.354 \ (03/93) \ \cdot \ Network \ performance \ objectives \ for \ packet-mode \ communication \ in \ an \ ISDN$
[I.355]	. Recommendation I.355 $(03/95)$ - ISDN 64 Kbit/s connection type availability performance
[I.356]	. Recommendation I.356 (03/00) - B-ISDN ATM layer cell transfer performance
[I.357]	Recommendation I.357 (08/96) - B-ISDN semi-permanent connection availability
[I.358]	. Recommendation I.358 (06/98) - Call processing performance for switched Virtual Channel Connections (VCCs) in a B-ISDN
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[1.361]	. Recommendation I.361 (02/99) - B-ISDN ATM layer specification

[I.363]	Recommendation I.363 (03/93) - B-ISDN ATM adaptation layer (AAL) specification
[I.363.1]	Recommendation I.363.1 (08/96) - B-ISDN ATM adaptation layer specification: Type 1 AAL
[I.363.2]	Recommendation I.363.2 (09/97) - B-ISDN ATM adaptation layer specification: Type 2 AAL
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[I.364]	$Recommendation \ I.364 \ (02/99) \ \text{-} \ \text{Support of the broadband connectionless data bearer service by the B-ISDN}$
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[I.365.2]	$Recommendation\ L365.2\ (11/95)\ -\ B-ISDN\ ATM\ adaptation\ layer\ sublayers:\ Service\ specific\ coordination\ function\ to\ provide\ the\ connection-oriented\ network\ service$
[I.365.3]	$eq:recommendation I.365.3\ (11/95) - B-ISDN ATM adaptation layer sublayers: Service specific coordination function to provide the connection-oriented transport service$
[I.365.4]	$\label{eq:scalar} Recommendation\ I.365.4\ (08/96)\ -\ B-ISDN\ ATM\ adaptation\ layer\ sublayers:\ Service\ specific\ convergence\ sublayer\ for\ HDLC\ applications$
[I.366.1]	Recommendation L366.1 (06/98) - Segmentation and reassembly service specific convergence sublayer for the AAL type 2 $$
[I.366.2]	Recommendation I.366.2 $(02/99)$ - AAL type 2 service specific convergence sublayer for trunking
[I.370]	Recommendation I.370 (10/91) - Congestion management for the ISDN frame relaying bearer service
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[I.371.1]	Recommendation I.371.1 (06/97) - Traffic control and congestion control in B-ISDN: Conformance definitions for ABT and ABR
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[I.375.3]	Recommendation I.375.3 (03/00) - Example of multimedia distribution service class - switched digital broadcasting
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[I.411]	Recommendation I.411 (03/93) - ISDN user-network interfaces - Reference configurations
[I.412]	Recommendation I.412 (11/88) - ISDN user-network interfaces - Interface structures and access capabilities
[I.413]	Recommendation I.413 (03/93) - B-ISDN user-network interface
[I.414]	Recommendation I.414 $(09/97)$ - Overview of Recommendations on Layer 1 for ISDN and B-ISDN customer accesses
[I.420]	Recommendation I.420 (11/88) - Basic user-network interface
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[I.432.2]	$Recommendation\ I.432.2\ (02/99)\ -\ B-ISDN\ user-network\ interface\ -\ Physical\ layer\ specification:\ 155,520\ Kbit/s\ and\ 622,080\ Kbit/s\ operation$
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I.4.2 ITU-T Series Q: Switching and signaling

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[Q.733.1]	Recommendation Q.733 (02/92) - Section 1, Stage 3 description for call completion supplementary services using No. 7 signaling system - Call waiting (CW)
[Q.733.2]	Recommendation Q.733 (03/93) - Clauses 2 and 4, Stage 3 description for call completion supplementary services using SS No. 7 $$
[Q.733.3]	Recommendation Q.733.3 (06/97) - Stage 3 description for call completion supplementary services using signaling system No. 7: Completion of calls to busy subscriber (CCBS)
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[Q.784.1]	. Recommendation Q.784.1 (07/96) - ISUP basic call test specification: Validation and compatibility for ISUP'92 and Q.767 protocols
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[Q.784.2]	Recommendation Q.784.2 (06/97) - ISUP basic call test specification: Abstract test suite for ISUP'92 basic call control procedures
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[Q.823.1]	. Recommendation Q.823.1 (10/97) - Management Conformance Statement Proformas
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[Q.825]	. Recommendation Q.825 (06/98) - Specification of TMN applications at the Q3 interface: Call detail recording
[Q.831]	. Recommendation Q.831 (10/97) - Fault and performance management of V5 interface environments and associated customer profiles
[Q.832.1]	. Recommendation Q.832.1 (06/98) - VB5.1 Management
[Q.832.2]	. Recommendation Q.832.2 (03/99) - VB5.2 Management
[Q.835]	. Recommendation Q.835 (03/99) - Line and line circuit test management of ISDN and analog customer accesses
[Q.850]	. Recommendation Q.850 (05/98) - Usage of cause and location in the Digital Subscriber signaling system No. 1 and the signaling system No. 7 ISDN User Part
[Q.920]	. Recommendation Q.920 (03/93) - Digital subscriber signaling system No. 1 (DSS1) - ISDN user-network interface data link layer - General aspects
[Q.921]	. Recommendation Q.921 (09/97) - ISDN user-network interface - Data link layer specification
[Q.921 bis]	. Recommendation Q.921 bis (03/93) - Abstract test suite for LAPD conformance testing
[Q.922]	. Recommendation Q.922 (02/92) - ISDN data link layer specification for frame mode bearer services
[Q.923]	. Recommendation Q.923 (02/95) - Specification of a synchronization and coordination function for the provision of the OSI connection-mode network service in an ISDN environment
[Q.930]	. Recommendation Q.930 (03/93) - Digital subscriber signaling system No. 1 (DSS 1) - ISDN user-network interface layer 3 - General aspects
[Q.931]	. Recommendation Q.931 (05/98) - ISDN user-network interface layer 3 specification for basic call control 1
[Q.931 bis]	. Recommendation Q.931 bis (02/95) - PICS and abstract test suite for ISDN DSS 1 layer 3 - Circuit mode, basic call control conformance testing
[Q.932]	. Recommendation Q.932 (05/98) - Digital subscriber signaling system No. 1 - Generic procedures for the control of ISDN supplementary services
[Q.933]	. Recommendation Q.933 (10/95) - Integrated services digital network (ISDN) digital subscriber signaling system No. 1 (DSS 1) - Signaling specifications for frame mode switched and permanent virtual connection control and status monitoring
[Q.933 Bis]	. Recommendation Q.933 bis (10/95) - PICS and abstract test suite for frame mode basic call control conformance testing of PVCs - Section 1: user and network sides of user-network interface

[Q.939]	. Recommendation Q.939 (03/93) - Digital subscriber signaling system No. 1 (DSS 1) - Typical DSS 1 service indicator codings for ISDN telecommunications services
[Q.940]	. Recommendation Q.940 (11/88) - ISDN user-network interface protocol for management - General aspects
[Q.941]	. Recommendation Q.941 (03/93) - Digital subscriber signaling system No. 1 (DSS 1) - ISDN user-network interface protocol profile for management
[Q.950]	. Recommendation Q.950 (06/00) - Supplementary services protocols, structure and general principles
[Q.951.1]	. Recommendation Q.951, Sections 1, 2 and 8 (02/92) - Stage 3 description for number identification supplementary services using DSS 1 - Direct-dialing-in (DDI)
[Q.951.3]	. Recommendation Q.951, Clauses 3, 4, 5 and 6 (03/93) - Stage 3 description for number identification supplementary services using DSS 1: Calling line identification presentation (CLIP): Calling line identification restriction (CLIR): Connected line
[Q.951.7]	. Recommendation Q.951.7 (06/97) - Stage 3 description for number identification supplementary services using DSS 1: Malicious call identification (MCID)
[Q.952]	. Recommendation Q.952 (03/93) - Stage 3 description for call offering supplementary services using DSS 1 - Diversion supplementary services
[Q.952.7]	. Recommendation Q.952.7 (06/97) - Stage 3 description for call offering supplementary services using DSS 1: Explicit call transfer (ECT)
[Q.953.1]	. Recommendation Q.953, Section 1 (02/92) - Stage 3 description for call completion supplementary services using DSS 1: Call waiting
[Q.953.2]	. Recommendation Q.953, Clause 2 (03/93) - Stage 3 description for call completion supplementary services using DSS 1: Clause 2 - Call hold
[Q.953.3]	. Recommendation Q.953.3 (06/97) - Stage 3 description for call completion supplementary services using DSS 1: Completion of Calls to Busy Subscribers (CCBS)
[Q.953.4]	. Recommendation Q.953, Clause 4 (10/95) - Integrated services digital network (ISDN) - Stage 3 description for call completion supplementary services using DSS 1: Clause 4 - Terminal Portability (TP)
[Q.953.5]	. Recommendation Q.953.5 (12/99) - Stage 3 description for call completion supplementary services using DSS1: Call Completion on No Reply (CCNR)
[Q.954.1]	. Recommendation Q.954, Clauses 1 and 2 (03/93) - Stage 3 description for multiparty supplementary services using DSS 1: Conference calling; Three-party service
[Q.954.1 Notice]	. Notice to Recommendation Q.954.1 (03/93) - Stage 3 description for multiparty supplementary services using DSS 1 - Clause 1: Conference calling, Clause 2: Three-party service
[Q.954.2]	. Recommendation Q.954, Clause 2 (10/95) - Integrated services digital network (ISDN) - Stage 3 description for multiparty supplementary services using DSS 1: Three party (3PTY)
[Q.955.1]	. Recommendation Q.955, Section 1 (02/92) - Stage 3 description for community of interest supplementary services using DSS 1: Closed user group
[Q.955.3]	. Recommendation Q.955, Clause 3 (03/93) - Stage 3 description for community of interest supplementary services using DSS 1: Multi-level precedence and preemption (MLPP)
[Q.956.2]	. Recommendation Q.956, Clause 2 (10/95) - Integrated services digital network (ISDN) - Stage 3 service description for charging supplementary services using DSS 1: Clause 2 - Advice of charge (AOC)
[Q.956.3]	. Recommendation Q.956, Clause 3 (10/95) - Integrated services digital network (ISDN) - Stage 3 description for charging supplementary services using DSS 1: Clause 3 - Reverse charging
[Q.957.1]	. Recommendation Q.957.1 (07/96) - Stage 3 description for additional information transfer supplementary services using DSS 1: User-to-User Signaling (UUS)
[Q.1000]	. Recommendation Q.1000 $(11/88)$ - Structure of the Q.1000-Series Recommendations for public land mobile networks
[Q.1001]	. Recommendation Q.1001 (11/88) - General aspects of public land mobile networks
[Q.1002]	. Recommendation Q.1002 (11/88) - Network functions
[Q.1003]	. Recommendation Q.1003 (11/88) - Location registration procedures
[Q.1004]	. Recommendation Q.1004 (11/88) - Location register restoration procedures
[Q.1005]	. Recommendation Q.1005 (11/88) - Handover procedures
[Q.1031]	. Recommendation Q.1031 (11/88) - General signaling requirements on interworking between the ISDN or PSTN and the PLMN
[Q.1032]	. Recommendation Q.1032 (11/88) - Signaling requirements relating to routing of calls to mobile subscribers
[Q.1061]	. Recommendation Q.1061 (11/88) - General aspects and principles relating to digital PLMN access signaling reference points
[Q.1062]	. Recommendation Q.1062 (11/88) - Digital PLMN access signaling reference configurations
[Q.1063]	. Recommendation Q.1063 (11/88) - Digital PLMN channel structures and access capabilities at the radio interface (Um reference point)
[Q.1100]	. Recommendation Q.1100 (03/93) - Interworking with Standard A INMARSAT system - Structure of the Recommendations on the INMARSAT mobile satellite systems
[Q.1101]	. Recommendation Q.1101 (11/88) - General requirements for the interworking of the terrestrial telephone network and INMARSAT Standard A system
[Q.1102]	. Recommendation Q.1102 (11/88) - Interworking between signaling system R2 and INMARSAT Standard A system
[Q.1103]	. Recommendation Q.1103 (11/88) - Interworking between signaling system No. 5 and INMARSAT Standard A system
[Q.1111]	. Recommendation Q.1111 (03/93) - Interfaces between the INMARSAT Standard B system and the international public switched telephone network/ISDN

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[Q.1112]	Recommendation Q.1112 (03/93) - Procedures for interworking between INMARSAT Standard-B system and the international public switched telephone network/ISDN
[Q.1151]	Recommendation Q.1151 (03/93) - Interfaces for interworking between the INMARSAT aeronautical mobile-satellite system and the international public switched telephone network/ISDN
[Q.1152]	Recommendation Q.1152 (03/93) - Procedures for interworking between INMARSAT aeronautical mobile satellite system and the international public switched telephone network/ISDN
[Q.1200]	Recommendation Q.1200 (09/97) - General series Intelligent Network Recommendation structure
[Q.1201/I.312]	Recommendation I.312/Q.1201 (10/92) - Principles of intelligent network architecture
[Q.1202/I.328]	Recommendation I.328/Q.1202 (09/97) - Intelligent Network - Service plane architecture
[Q.1203/I.329]	Recommendation I.329/Q.1203 (09/97) - Intelligent Network - Global functional plane architecture
[Q.1204]	Recommendation Q.1204 (03/93) - Intelligent network distributed functional plane architecture
[Q.1205]	Recommendation Q.1205 (03/93) - Intelligent network physical plane architecture
[Q.1208]	Recommendation Q.1208 (09/97) - General aspects of the Intelligent Network Application protocol
[Q.1210]	Recommendation Q.1210 (10/95) - Q.1210-Series Intelligent network Recommendation structure
[Q.1211]	Recommendation Q.1211 (03/93) - Introduction to intelligent network capability set 1
[Q.1213]	Recommendation Q.1213 (10/95) - Global functional plane for intelligent network CS-1
[Q.1214]	Recommendation Q.1214 (10/95) - Distributed functional plane for intelligent network CS-1
[Q.1215]	Recommendation Q.1215 (10/95) - Physical plane for intelligent network CS-1
[Q.1218]	Recommendation Q.1218 (10/95) - Interface Recommendation for intelligent network CS-1
[Q.1218 Add.1]	Addendum 1 to Recommendation Q.1218 (09/97) - Interface Recommendation for Intelligent Network CS-1; Addendum 1: Definition for two new contexts in the SDF data model
[Q.1219]	Recommendation Q.1219 $(04/94)$ - Intelligent network user's guide for capability set 1
[Q.1219 Sup.1]	Supplement 1 to Recommendation Q.1219 (09/97) - Intelligent network user's guide: Supplement for IN CS-1; Supplement 1
[Q.1220]	Recommendation Q.1220 (09/97) - Q.1220-Series Intelligent network capability set 2 Recommendation structure
[Q.1221]	Recommendation Q.1221 $(09/97)$ - Introduction to intelligent network capability set 2
[Q.1222]	Recommendation Q.1222 (09/97) - Service plane for intelligent network capability set 2
[Q.1223]	Recommendation Q.1223 (09/97) - Global functional plane for intelligent network capability set 2
[Q.1224]	Recommendation Q.1224 (09/97) - Distributed functional plane for intelligent network capability Set 2: Part 1, 2, 3
[Q.1225]	Recommendation Q.1225 (09/97) - Physical plane for intelligent network capability set 2
[Q.1228]	Recommendation Q.1228 $(09/97)$ - Interface Recommendation for intelligent network capability set 2
[Q.1236]	. Recommendation Q.1236 $(12/99)$ - Intelligent network capability set 3 - Management information model requirements and methodology
[Q.1238.2]	Recommendation Q.1238.2 (06/00) - SCF-SSF interface
[Q.1290]	Recommendation Q.1290 (05/98) - Glossary of terms used in the definition of intelligent networks
[Q.1300]	. Recommendation Q.1300 (10/95) - Telecommunication applications for switches and computers (TASC) - General overview
[Q.1301]	. Recommendation Q1301 (10/95) - Telecommunication applications for switches and computers (TASC) - TASC Architecture
[Q.1302]	Recommendation Q.1302 (10/95) - Telecommunication applications for switches and computers (TASC) - TASC functional services
[Q.1303]	Recommendation Q.1303 (10/95) - Telecommunication applications for switches and computers (TASC) - TASC management: architecture, methodology and requirements
[Q.1400]	Recommendation Q.1400 (03/93) - Architecture framework for the development of signaling and OA&M protocols using OSI concepts
[Q.1400 Add.1]	Addendum 1 to Recommendation Q.1400 (02/95) - Architecture framework for the development of signaling and OAM protocols using OSI concepts
[Q.1541]	Recommendation Q.1541 (05/98) - UPT stage 2 for Service Set 1 on IN CS-1 - Procedures for universal personal telecommunication: Functional modeling and information flows
[Q.1551]	Recommendation Q.1551 (06/97) - Application of Intelligent Network Application Protocols (INAP) CS-1 for UPT Service Set 1
[Q.1600]	Recommendation Q.1600 (09/97) - Signaling system No. 7 - Interaction between ISUP and INAP
[Q.1701]	Recommendation Q.1701 (03/99) - Framework for IMT-2000 networks
[Q.1711]	Recommendation Q.1711 (03/99) - Network functional model for IMT-2000
[Q.2010]	Recommendation Q.2010 (02/95) - Broadband integrated services digital network overview - Signaling capability set 1, release 1
[Q.2100]	Recommendation Q.2100 (07/94) - B-ISDN signaling ATM adaptation layer (SAAL) overview description
[Q.2110]	Recommendation Q.2110 (07/94) - B-ISDN ATM adaptation layer - Service specific connection oriented protocol (SSCOP)
[Q.2119]	Recommendation Q.2119 (07/96) - B-ISDN ATM adaptation layer - Convergence function for SSCOP above the frame relay core service
[Q.2120]	Recommendation Q.2120 (02/95) - B-ISDN meta-signaling protocol

[Q.2130]	Recommendation Q.2130 (07/94) - B-ISDN signaling ATM adaptation layer - Service specific coordination function for support of signaling at the user-network interface (SSFC At UNI)
[Q.2140]	Recommendation Q.2140 (02/95) - B-ISDN ATM adaptation layer - Service specific coordination function for signaling at the network node interface (SSCF at NNI)
[Q.2144]	. Recommendation Q.2144 $(10/95)$ - B-ISDN Signaling ATM adaptation layer - Layer management for the SAAL at the network node interface
[Q.2150.1]	Recommendation Q.2150.1 (12/99) - AAL type 2 signaling transport converter on broadband MTP
[Q.2150.2]	Recommendation Q.2150.2 (12/99) - AAL type 2 signaling transport converter on SSCOP
[Q.2210]	. Recommendation $\rm Q.2210~(07/96)$ - Message transfer part level 3 functions and messages using the services of ITU-T Recommendation $\rm Q.2140$
[Q.2610]	Recommendation Q.2610 (12/99) - Usage of cause and location in B-ISDN user part and DSS2
[Q.2660]	. Recommendation Q.2660 (12/99) - Interworking between signaling system No. 7 broadband ISDN user part (B-ISUP) and narrow-band ISDN user part (N-ISUP)
[Q.2722.1]	Recommendation Q.2722.1 (07/96) - B-ISDN user part - Network node interface specification for point-to-multipoint call/connection control
[Q.2722.1 Am.1] .	. Amendment 1 (06/00) to Recommendation Q.2722.1
[Q.2724.1]	. Recommendation Q.2724.1 $(07/96)$ - B-ISDN user part - Look-ahead without state change for the Network Node Interface (NNI)
[Q.2726.2]	. Recommendation Q.2726.2 (07/96) - B-ISDN user part - Call priority
[Q.2726.3]	. Recommendation Q.2726.3 (07/96) - B-ISDN user part - Network generated session identifier
[Q.2726.4]	Recommendation Q.2726.4 (06/00) - Extensions to the B-ISDN user part application generated identifiers
[Q.2730]	. Recommendation Q.2730 (12/99) - Signaling system No.7 B-ISDN user part (B-ISUP) - Supplementary services
[Q.2735.1]	Recommendation Q.2735.1 (06/97) - Stage 3 description for community of interest supplementary services for B-ISDN using SS No. 7: Closed User Group (CUG)
[Q.2751.1]	. Recommendation Q.2751.1 (09/97) - Extension of Q.751.1 for SAAL signaling links
[Q.2762]	. Recommendation Q.2762 $(02/95)$ - Broadband integrated services digital network (B-ISDN) - General functions of messages and signals of the B-ISDN user part (B-ISUP) of signaling system No. 7
[Q.2763]	. Recommendation Q.2763 (02/95) - Broadband Integrated Services Digital Network (B-ISDN) - Signaling system No. 7 B-ISDN user part (B-ISUP) - Formats and codes
[Q.2766.1]	. Recommendation Q.2766.1 (05/98) - Switched virtual path capability
[Q.2766.1 Am.1]	Amendment 1 (06/00) to Recommendation Q.2766.1
[Q.2767.1]	. Recommendation Q.2767.1 (06/00) - Soft PVC capability
[Q.2769.1]	. Recommendation Q.2769.1 (06/00) - Support of number portability information across B-ISUP
[Q.2931]	. Recommendation Q.2931 (02/95) - Broadband Integrated Services Digital Network (B-ISDN) - Digital subscriber signaling system No. 2 (DSS 2) - User-Network Interface (UNI) - Layer 3 specification for basic call/ connection control
[Q.2931 Amend.1	Amendment 1 to Recommendation Q.2931 (06/97) - Digital subscriber signaling system No. 2 - User-network interface (UNI) layer 3 specification for basic call/connection control Amendment 1
[Q.2931 Amend.2	Amendment 2 (03/99) to Recommendation Q 2931 - Digital subscriber signaling system No. 2 - User-network interface (UNI) layer 3 specification for basic call/connection control
[Q.2931Am2Cor1]	Amendment 2, Corrigendum 1 (06/00) to ITU-T Recommendation Q.2931
[Q.2931 Amend.3	Amendment 3 to Recommendation Q.2931 (03/99) - User-network interface (UNI) layer 3 specification for basic call/connection control
[Q.2932.1]	. Recommendation Q.2932.1 (07/96) - Digital subscriber signaling system No. 2 - Generic functional protocol: Core functions
[Q.2933]	. Recommendation Q.2933 (07/96) - Digital subscriber signaling system No. 2 (DSS 2) - Signaling specification for Frame Relay service
[Q.2934]	Recommendation Q.2934 (05/98) - Digital subscriber signaling system No. 2 - Switched virtual path capability
[Q.2939.1]	Recommendation Q.2939.1 (09/97) - Digital subscriber signaling system No. 2 - Application of DSS 2 service- related information elements by equipment supporting B-ISDN services
[Q.2941.1]	. Recommendation Q.2941.1 (09/97) - Digital subscriber signaling system No. 2 - Generic identifier transport
[Q.2941.3]	$. Recommendation Q.2941.3 (06/00) - Broadband integrated services digital network (B-ISDN) digital subscriber signaling system No. 2 (DSS 2): Generic identifier transport extension for support of bearer independent call control \ensuremath{control}$
[Q.2951]	Recommendation Q.2951 (02/95) (Clauses 1, 2, 3, 4, 5, 6 and 8) - Stage 3 description for number identification supplementary services using B-ISDN Digital subscriber signaling system No. 2 (DSS 2) - Basic call
[Q.2951 Cor.1]	. Corrigendum 1 (05/98) to Recommendation Q.2951 - Stage 3 description for number identification supplementary services using B-ISDN Digital subscriber signaling system No.2 (DSS 2) - Basic call Corrigendum 1
[Q.2955.1]	. Recommendation Q.2955.1 (06/97) - Stage 3 description for community of interest supplementary services using B-ISDN Digital subscriber signaling system No. 2 (DSS 2): Closed User Group (CUG)
[Q.2957.1]	Recommendation Q.2957.1 (02/95) - User-to-user signaling (UUS)
[Q.2957.1 Am.1]	Amendment 1 to Recommendation Q.2957.1 (12/99) - Stage 3 description for additional information transfer supplementary services using B-ISDN Digital subscriber signaling system No. 2 (DSS 2) - Basic call
[Q.2959]	. Recommendation Q.2959 (07/96) - Digital subscriber signaling system No. 2 - Call priority
[Q.2961.1]	Recommendation Q.2961.1 (10/95) - Additional signaling capabilities to support traffic parameters for the tagging option and the sustainable cell rate parameter set

[Q.2961.2]	Recommendation Q.2961.2 (06/97) - Digital subscriber signaling system No. 2 - Additional traffic parameters: Support of ATM transfer capability in the broadband bearer capability information element
[Q.2961.2 Cor.1]	$Corrigendum \ 1 \ (03/99) \ to \ Recommendation \ Q.2961.2 \ \cdot \ Digital \ subscriber \ signaling \ system \ No. \ 2 \ \cdot \ Additional \ traffic \ parameters: \ Support \ of \ ATM \ transfer \ capability \ in \ the \ broadband \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ additional \ bearer \ capability \ information \ element \ additional \ bearer \ capability \ additional \ bearer \ bea$
[Q.2961.3]	$Recommendation \ Q.2961.3 \ (09/97) \ - \ Digital \ subscriber \ signaling \ system \ No. \ 2 \ - \ Additional \ traffic \ parameters: \ Signaling \ capabilities \ to \ support \ traffic \ parameters \ for \ the \ available \ bit \ rate \ (ABR) \ ATM \ transfer \ capability$
[Q.2961.4]	$Recommendation \ Q.2961.4 \ (09/97) \ - \ Digital \ subscriber \ signaling \ system \ No. \ 2 \ - \ Additional \ traffic \ parameters: \ Signaling \ capabilities \ to \ support \ traffic \ parameters \ for \ the \ ATM \ Block \ Transfer \ (ABT) \ ATM \ transfer \ capability \ support \ s$
[Q.2961.5]	$Recommendation \ Q.2961.5 \ (03/99) \ - \ Digital \ subscriber \ signaling \ system \ No. \ 2 \ - \ Additional \ traffic \ parameters: \ Additional \ traffic \ parameters \ for \ cell \ delay \ variation \ tolerance \ indication$
[Q.2961.6]	$Recommendation \ Q.2961.6 \ (05/98) \ - \ Digital \ subscriber \ signaling \ system \ No. \ 2 \ - \ Additional \ traffic \ parameters: \ Additional \ signaling \ procedures \ for \ the \ support \ of \ the \ SBR2 \ and \ SBR3 \ ATM \ transfer \ capabilities$
[Q.2962]	$Recommendation \ Q.2962 \ (05/98) \ \text{-} Digital subscriber signaling system \ No. \ 2 \ \text{-} \ Connection \ characteristics negotiation \ during \ call/connection \ establishment \ phase$
[Q.2963.2]	Recommendation Q.2963.2 (09/97) - Digital subscriber signaling systems No. 2 - Connection modification: Modification procedures for sustainable cell rate parameters
[Q.2963.3]	Recommendation $Q.2963.3\ (05/98)$ - Digital subscriber signaling system No. 2 - Connection modification: ATM traffic descriptor modification with negotiation by the connection owner
[Q.2964.1]	Recommendation Q.2964.1 (07/96) - Digital subscriber signaling system No. 2: Basic look-ahead
[Q.2965.1]	Recommendation Q.2965.1 (03/99) - Digital subscriber signaling system No. 2 - Support of quality of service classes
[Q.2965.1 Am.1]	Amendment 1 (06/00) to Recommendation Q.2965.1
[Q.2971]	Recommendation Q.2971 (10/95) - Broadband integrated services digital network B-ISDN - DSS 2 - Digital subscriber signaling system N.o 2 - User-network interface layer 3 specification for point-to-multipoint call/ connection control
[Q.2971 Corr.1]	Corrigendum 1 (12/99) to Recommendation Q.2971 - Digital subscriber signaling system No. 2 (DSS2) - User-Network interface layer 3 specification for point-to-multipoint call/connection control
[Q.2982]	Recommendation Q.2982 (12/99) - Broadband integrated services digital network (B-ISDN) Digital subscriber signaling system No. 2 (DSS 2) Q.2931-based separated call control protocol
[Q.2983]	Recommendation Q.2983 (12/99) - Broadband integrated services digital network (B-ISDN) Digital subscriber signaling No. 2 (DSS 2): Bearer control protocol

I.4.3 ATM-Forum-Standards

http://www.atmforum.com

Technical Working Group	Approved Specifications	Technical Working Group	Approved Specifications
	Specification Approved Date	- · · •	Specification Approved Date
B-ICI	Approved Date B-ICI 1.0 af-bici-0013.000 Sep, 1993 B-ICI 1.1 af-bici-0013.001 B-ICI 2.0 (delta spec to B-ICI 1.1) af-bici-0013.002 Dec, 1995 B-ICI 2.0 (integrated specification) af-bici-0013.003 Dec, 1995 B-ICI 2.0 Addendum or 2.1 af-bici-0068.000 Nov, 1996 PNNI Addendum on PNNI/B-QSIG Interworking and Generic Functional Protocol for the Support of Supplementary Services af-cs-0102.000 Oct, 1998		Approved Date PNNI Transported Address Stack, Version 1.0 af-cs-0115.000 May, 1999 PNNI Version 1.0 Security Signaling Addendum af-cs-0116.000 May, 1999 UNI Signaling 4.0 Security Addendum af-cs-0117.000 May, 1999 ATM Inter-Network Interface (AINI) Specification af-cs-0125.000 July, 1999 PNNI Addendum for Generic Application Transport Version 1.0 af-cs-0126.000 July, 1999 PNNI SPVC Addendum Version 1.0 af-cs-0127.000 July, 1999
	Addressing Addendum for UNI Signaling 4.0 af-cs-0107.000 Feb, 1999		PHY/MAC Identifier Addendum to UNI Signaling 4.0 af-cs-0135.000 Nov, 1999

CTION V

APPENDIX

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Technical Working **Approved Specifications Technical Working Approved Specifications** Group Group Specification Specification Approved Date Approved Date Network Call Correlation Identifier Multi-Protocol over ATM Version 1.0 v1.0 MIB af-cs-0140.000 af-mpoa-0092.000 July, 1998 March. 2000 PNNI Addendum for Path and Multi-protocol over ATM Specification, Connection Trace, Version 1.0 af-cs-0141.000 Version 1.1 af-mpoa-0114.000 May, 1999 March, 2000 Operation of the Bearer Independent MPOA v1.1 Addendum on VPN Support af-mpoa-0129.000 Call Control (BICC) Protocol with SIG Oct, 1999 4.0/PNNI 1.0-AINI af-cs-vmoa-0146.000 Network Management ... July, 2000 Customer Network Management (CNM) for ATM Public Network Service UBR with MDCR Addendum to UNI 4.0/PNNI 1.0 AINI af-nm-0019.000 af-cs-0147.000 Oct, 1994 July, 2000 M4 Interface Requirements and Logical Modification of Traffic Descriptor for MIB an Active Connection af-nm-0020.000 af-cs-0148.000 Oct, 1994 July, 2000 M4 Interface Requirements and Logical Data Exchange Interface MIB: ATM Network Element View Data Exchange Interface version 1.0 af-nm-0020.001 af-dxi-0014.000 Oct, 1998 Aug, 1993 CMIP Specification for the M4 Interface Directory and Naming Services af-nm-0027.000 ATM Named System v2.0 Sep, 1995 af-dans-0152.000 CMIP Specification for the M4 July, 2000 Interface: ATM Network Element View, Version 2 Frame-based ATM Frame-based ATM Transport over af-nm-0027.001 Ethernet (FATE) July, 1999 af-fbatm-0139.000 M4 Public Network View Mar. 2000 af-nm-0058.000 Frame based ATM over Sonet/SDH Mar, 1996 af-fbatm-0151.000 M4 Interface Requirements and Logical July, 2000 MIB: ATM Network View, Version 2 af-nm-0058.001 ILMI (Integrated Local Mgmt. Interface) May, 1999 **ILMI 4.0** af-ilmi-0065.000 M4 "NE View" Sep, 1996 af-nm-0071.000 Jan, 1997 Lan Emulation/MPOA LAN Emulation over ATM 1.0 Circuit Emulation Service Interworking Requirements, Logical and CMIP MIB af-lane-0021.000 Jan, 1995 af-nm-0072.000 LAN Emulation Client Management Jan, 1997 Specification M4 Network View CMIP MIB Spec v1.0 af-lane-0038.000 af-nm-0073.000 Sep, 1995 Jan, 1997 LANE 1.0 Addendum M4 Network View Requirements & af-lane-0050.000 Logical MIB Addendum Dec, 1995 af-nm-0074.000 LANE Servers Management Spec v1.0 Jan, 1997 af-lane-0057.000 ATM Remote Monitoring SNMP MIB Mar, 1996 af-nm-test-0080.000 LANE v2.0 LUNI Interface July, 1997 af-lane-0084.000 July, 1997 SNMP M4 Network Element View MIB af-nm-0095.001 LAN Emulation Client Management Specification Version 2.0 af-lane-0093.000 July, 1998 Network Management M4 Security Oct. 1998 Requirements and Logical MIB af-nm-0103.000 LAN Emulation over ATM Version 2 -Jan, 1999 LNNI Specification af-lane-0112.000 Auto-configuration of PVCs af-nm-0122.000 Feb. 1999 May, 1999 Multi-Protocol over ATM Specification v1.0 af-mpoa-0087.000 July, 1997

STANDARDS

TION V A

APPENDIX

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STANDARDS

Technical Working Group	Approved Specifications	Technical Working Group	Approved Specifications
	Specification Approved Date		Specification Approved Date
Physical Layer	Issued as part of UNI 3.1:44.736 DS3 Mbps Physical Layer100 Mbps Multimode Fiber Interface Physical Layer155.52 Mbps SONET STS-3c Physical Layer155.52 Mbps Physical Layer af-uni-0010.002		155 Mb/s Plastic Optical Fiber and Hard Polymer Clad Fiber PMD Specification Version 1.1 af-phy-0079.001 Jan, 1999 Inverse ATM Mux Version 1.0 af-phy-0086.000 July, 1997 Inverse Multiplexing for ATM (IMA) Specification Version 1.1
Arm rhysicar medium	Jependein meriade specification for 155 MJ/s over Twisted Pair Cable af-phy-0015.000 Sep, 1994 DS1 Physical Layer Specification af-phy-0016.000 Sep, 1994 Utopia af-phy-0017.000 Mar, 1994 Mid-range Physical Layer Specification for Category 3 UTP af-phy-0018.000 Sep, 1994 6,312 Kbps UNI Specification af-phy-0029.000 June, 1995 E3 UNI af-phy-0034.000 Aug. 1905		ar-pity-0080.001 March, 1999 Physical Layer High Density Glass Optical Fiber Annex af-phy-0110.000 Feb, 1999 622 and 2488 Mbit/s Cell-Based Physical Layer af-phy-0128.000 July, 1999 ATM on Fractional E1/T1 af-phy-0130.000 Oct, 1999 2.4 Gbps Physical Layer Specification af-phy-0133.000 Oct, 1999 Physical Layer Control af-phy-0134.000 Oct, 1999
	Aug, 1995 Utopia Level 2 af-phy-0039.000 June, 1995 Physical Interface Specification for 25.6 Mb/s over Twisted Pair af-phy-0040.000 Nov, 1995 A Cell-based Transmission Convergence Sublayer for Clear Channel Interfaces af-phy-0043.000 Jan, 1996 622.08 Mbps Physical Layer af-phy-0046.000 Jan, 1996 155 52 Mbps Physical Layer		Utopia 3 Physical Layer Interface af-phy-0136.000 Nov, 1999 Specification of the Device Control Protocol (DCP) Version 1.0 af-phy-0138.000 Mar, 2000 Multiplexed Status Mode (MSM3) af-phy-0142.000 March, 2000 Frame-based ATM Interface (Level 3) af-phy-0143.000 March, 2000 UTOPIA Level 4 af-phy-0144.001 March, 2000
	105.05 Mbps Physical Layer Specification for Category 3 UTP (See also UNI 3.1, af-uni-0010.002) af-phy-0047.000 Nov, 1995 120 Ohm Addendum to ATM PMD Interface Spec for 155 Mbps over TP af-phy-0053.000 Jan, 1996 DS3 Physical Layer Interface Spec af-phy-0054.000 Mar, 1996 155 Mbps over MMF Short Wave Length Lasers, Addendum to UNI 3.1 af-phy-0062.000 July, 1996 WIRE (PMD to TC layers) af-phy-0063.000 July, 1996 E-1 Physical Layer Interface Specification af-phy-0064.000 Sep, 1996 155 Mbps over Plastic Optical Fiber (POF) Version 1.0 af-phy-0079.000 May, 1997	PNNI	Interim Inter-Switch Signaling Protocol af-pnni-0026.000 Dec, 1994 PNNI V1.0 af-pnni-0055.000 Mar, 1996 PNNI 1.0 Addendum (soft PVC MIB) af-pnni-0066.000 Sep, 1996 PNNI ABR Addendum af-pnni-0075.000 Jan, 1997 PNNI v1.0 Errata and PICs af-pnni-0081.000 July, 1997 ng

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	Specification Approved Date		Specification Approved Date
	ATM Forum Addressing: Reference Guide af-ra-0106.000 Feb, 1999 PNNI Addendum for Mobility Extensions Version 1.0	Testing	Introduction to ATM Forum Test Specifications af-test-0022.000 Dec, 1994 PICS Proforma for the DS3 Physical
	af-ra-0123.000 May, 1999		Layer Interface af-test-0023.000 Sep, 1994
Residential Broadban	d Residential Broadband Architectural Framework af-rbb-0099.000 July, 1998		PICS Proforma for the SONET STS-3c Physical Layer Interface af-test-0024.000 Sep, 1994
	RBB Physical Interfaces Specification af-rbb-phy-0101.000 Jan, 1999		PICS Proforma for the 100 Mbps Multimode Fibre Physical Layer Interface aftest-0025.000 Son 1004
Service Aspects and A	Applications Frame UNI af-saa-0031.000 Sep, 1995 Circuit Emulation		PICS Proforma for the ATM Layer (UNI 3.0) af-test-0028.000 Apr, 1995
	af-saa-0032.000 Sep. 1995 Native ATM Services: Semantic Description		Conformance Abstract Test Suite for the ATM Layer for Intermediate Systems (UNI 3.0) af-test-0030.000 Son 1005
	al-saa-0048.000 Feb, 1996 Audio/Visual Multimedia Services: Video on Demand v1.0 af-saa-0049.000		Interoperability Test Suite for the ATM Layer (UNI 3.0) af-test-0035.000 Apr, 1995
	Jan, 1996 Audio/Visual Multimedia Services: Video on Demand v1.1 af-saa-0049.001 Mar. 1997		Interoperability Test Suites for the Physical Layer: DS-3, STS-3c, 100 Mbps MMF (TAXI) af-test-0036.000 Apr, 1995
	ATM Names Service af-saa-0069.000 Nov, 1996		PICS Proforma for the DS1 Physical Layer af-test-0037.000 Apr, 1995
	Af-saa-0088.000 July, 1997 Native ATM Services DLPI Addendum		Conformance Abstract Test Suite for the ATM Layer (End Systems) UNI 3.0 af-test-0041.000 Jan 1996
	Version 1.0 af-saa-api-dlpi-0091.000 Feb, 1998 API Somentiae for Notive ATM Sorviges		PICS for AAL5 (ITU spec) af-test-0042.000 Jan, 1996
	Full Extensions for Multimedia		PICS Proforma for the 51.84 Mbps Mid-Range PHY Layer Interface af-test-0044.000 Jan. 1996
	af-saa-0109.000 Feb, 1999 H.323 Media Transport over ATM af-saa-0124.000 July, 1999		Conformance Abstract Test Suite for the ATM Layer of Intermediate Systems (UNI 3.1) af-test-0045.000 Jan, 1996
Security	ATM Security Framework Version 1.0 af-sec-0096.000 February, 1998		PICS for the 25.6 Mbps over Twisted Pair Cable (UTP-3) Physical Layer af-test-0051.000 Mar, 1996
Signaling	ATM Security Specification Version 1.0 af-sec-0100.001 Feb, 1999		Conformance Abstract Test Suite for the ATM Adaptation Layer (AAL) Type 5 Common Part (Part 1) af-test-0052.000 Mar, 1996
	(See UNI 3.1, af-uni-0010.002) UNI Signaling 4.0 af-sig-0061.000 July, 1996		PICS for ATM Layer (UNI 3.1) af-test-0059.000 July, 1996
	Signaling ABR Addendum af-sig-0076.000 Jan, 1997		Conformance Abstract Test Stuffe for the UNI 3.1 ATM Layer of End Systems af-test-0060.000 June, 1996

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Traffic Management...

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Approved Specifications Technical Working Approved Specifications Group Specification Specification Approved Date Approved Date Conformance Abstract Test Suite for Voice & Telephony over ATM the SSCOP Sublayer (UNI 3.1) Circuit Emulation Service 2.0 af-test-0067.000 af-vtoa-0078.000 Sep, 1996 Jan. 1997 SSCOP Conformance Abstract Test Voice and Telephony Over ATM to the Suite, Version 1.1 af-test-0067.001 Desktop af-vtoa-0083.000 May, 1999 May, 1997 PICS for the 155 Mbps over Twisted Pair Cable (UTP-5/STP-5) Physical Voice and Telephony over ATM to the Desktop af-vtoa-0083.001 af-test-0070.000 Feb, 1999 Nov, 1996 (DBCES) Dynamic Bandwith PICS for Direct Mapped DS3 Utilization in 64 KBPS Time Slot af-test-0082.000 Trunking over ATM - Using CES af-vtoa-0085.000 July, 1997 July, 1997 Conformance Abstract Test Suite for ATM Trunking Using AAL1 for Narrow Signaling (UNI 3.1) for the Network Band Services v1.0 af-test-0090.000 af-vtoa-0089.000 September, 1997 July, 1997 ATM Trunking Using AAL2 for Abstract Test Suite for UNI 3.1 ATM Signaling for the Network Side v2.0 af-test-0090.001 Narrowband Services af-vtoa-0113.000 March, 2000 Feb, 1999 ATM Test Access Function (ATAF) Low Speed Circuit Emulation Service Specification Version 1.0 af-vtoa-0119.000 af-test-nm-0094.000 May, 1999 February, 1998 ICS for ATM Trunking Using AAL2 for Narrowband Services PICS for Signaling (UNI v3.1) - User af-vtoa-0120.000 af-test-0097.000 May, 1999 April, 1998 Low Speed Circuit Emulation Service (LSCES) Implementation Conformance Interoperability Test for PNNI Version Statement Performance af-test-csra-0111.000 af-vtoa-0132.000 Feb, 1999 Oct, 1999 PICS Proforma for UNI 3.1 Signaling Loop Emulation Service (Network Side) Using AAL2 af-test-csra-0118.000 af-vmoa-0145.000 May, 1999 July, 2000 ATM Forum Performance Testing User-Network Interface (UNI) Specification ATM User-Network Interface af-test-tm-0131.000 Specification V2.0 Oct, 1999 af-uni-0010.000 Implementation Conformance June, 1992 Statement (ICS) Proforma Style Guide ATM User-Network Interface af-test-0137.000 Specification V3.0 Mar, 2000 af-uni-0010.001 Sep, 1993 (See UNI 3.1, af-uni-0010.002) ATM User-Network Interface Specification V3.1 Traffic Management 4.0 af-uni-0010.002 af-tm-0056.000 1994 Apr, 1996 Traffic Management ABR Addendum af-tm-0077.000 Jan, 1997 Traffic Management 4.1 af-tm-0121.000

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March, 1999 Addendum to TM 4.1: Differentiated UBR af-tm-0149.000 Julv. 2000

Addendum to Traffic Management v4.1 Optional Minimum Desired Cell Rate Indication for UBR af-tm-0150.000 July, 2000

I.5 Frame Relay

I.5.1 ITU

http://www.itu.ch

I.122	Framework for Providing Additional Packet Mode Bearer Services
I.233	Frame Relay Bearer Service Description
Q.921	ISDN User-Network Interface (D-Channel) Layer 2 Specification
Q.922	ISDN Data Link Layer Specification for Frame Mode Bearer Services
Q.933	DSS1 - Signaling Specification for Frame Mode Bearer Services

I.5.2 ANSI

http://www.ansi.org

- T1S1 Architectural Framework and Service Description
- T1.602 Telecommunications ISDN Data Link Layer Signaling Specification
- T1.606 Frame Relay Bearer Service Description
- T1.617 Signaling Specification for Frame Relay Bearer Service
- T1.618 Core Aspects of Frame Protocol for Use with Frame Relay Bearer Service

I.5.3 Frame Relay Forum

http://www.frforum.com/

- FRF.1 User-to-Network Implementation Agreement (UNI)
- FRF.2 Network-to-Network Implementation Agreement (NNI)
- FRF.3 Multiprotocol Encapsulation Implementation Agreement
- FRF.4 User-to-Network SVC Implementation Agreement
- FRF.5 Frame Relay ATM PVC Network Interworking Implementation Agreement
- FRF.6 Frame Relay Service Customer Network Manager Implementation Agreement (MIB)
- FRF.7 Frame Relay PVC Multicast Service and Protocol Description Implementation Agreement
- FRF.8 Frame Relay/ATM PVC Service Interworking Implementation Agreement
- FRF.9 Data Compression Over Frame Relay Implementation Agreement
- FRF.10 Frame Relay Network-to-Network SVC Implementation Agreement
- FRF.11 Voice Over Frame Relay Implementation Agreement
- FRF.12 Frame Relay Fragmentation Implementation Agreement
- FRF.13 Service Level Definitions I.A
- FRF.14 Physical Layer Interface I.A
- FRF.15 End-to-End Multilink Frame Relay I.A
- FRF.16 Multilink Frame Relay UNI/NNI I.A
- FRF.17 Frame Relay Privacy I.A
- FRF.18 Network-to-Network FR/ATM SVC Service Interworking I.A

I.6 SDH/SONET/PDH

I.6.1 ITU

http://www.itu.ch

- G.702 Digital hierarchy bit rates
- G.703 Physical/electrical characteristics of hierarchical digital interfaces
- G.704 Synchronous frame structures used at 1544, 6312, 2048, 8488 and 44,736 Kbit/s hierarchical levels
- G.706 Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704
- $\operatorname{G.707}$ Network node interface for the synchronous digital hierarchy (SDH)
- G.772 Protected monitoring points provided on digital transmission systems
- G.810 Definitions and terminology for synchronization networks
- G.811 Timing characteristics of primary reference clocks
- G.812 Timing requirements of slave clocks suitable for use as node clocks in synchronization networks
- G.813 Timing characteristics of SDH equipment slave clocks (SEC)
- G.821 Error performance of an international digital connection operating at a bit rate below the primary rate and forming part of an integrated services digital network
- G.822 Controlled slip rate objectives on an international digital connection
- $G.823\ldots$ The control of jitter and wander within digital networks which are based on the 2048 Kbit/s hierarchy
- G.824 The control of jitter and wander within digital networks which are based on the 1544 Kbit/s hierarchy
- G.825 The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)
- G.826 Error performance parameters and objectives for international, constant bit rate digital paths at or above the primary rate
- G.827 Availability parameters and objectives for path elements of international constant bit-rate digital paths at or above the primary rate
- G.832 Transport of SDH elements on PDH networks Frame and multiplexing structures
- G.841 Types and characteristics of SDH network protection architectures
- G.957 Optical interfaces for equipments and systems relating to the synchronous digital hierarchy
- G.958 Digital line systems based on the synchronous digital hierarchy for use on optical fibre cables
- M.2100 ... Performance limits for bringing-into-service and maintenance of international PDH paths, sections and transmission systems
- M.2101.1 Performance limits for bringing-into-service and maintenance of international SDH paths and multiplex sections
- M.2110 ... Bringing-into-service of international PDH paths, sections and transmission systems and SDH paths and multiplex sections
- M.2120 ... PDH path, section and transmission system and SDH path and multiplex section fault detection and localization procedures
- M.2130 ... Operational procedures in locating and clearing transmission faults
- 0.150 General requirements for instrumentation for performance measurements on digital transmission equipment
- 0.151 Error performance measuring equipment operating at the primary rate and above
- $0.152 \ {\rm}$ Error performance measuring equipment for bit rates of 64 Kbit/s and N x 64 Kbit/s
- 0.162 Equipment to perform in-service monitoring on 2048, 8448, 34 368 and 139 264 Kbit/s signals
- 0.163 Equipment to perform in-service monitoring on 1544 Kbit/s signals
- 0.171 Timing jitter and wander measuring equipment for digital systems which are based on the plesiochronous digital hierarchy (PDH)
- 0.181 Equipment to assess error performance on STM-N interfaces

I.6.2 ANSI

http://www.ansi.org

ANSI T1.105-1995	Telecommunications - Synchronous Optical Network (SONET) - Basic Description Including Multiplex Structures, Rates, and Formats
ANSI T1.105.01-1995	Telecommunications - Synchronous Optical Network (SONET) - Automatic Protection Switching
ANSI T1.105.02-1995	Telecommunications - Synchronous Optical Network (SONET) - Payload Mappings
ANSI T1.105.03-1994	Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces
ANSI T1.105.03a-1995	Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces - DS1 Supplement

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ANSI T1.105.03b-1997	. Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network I DS3 Wander Supplement	nterfaces -
ANSI T1.105.04-1995	. Telecommunications - Synchronous Optical Network (SONET) - Data Communication Channel Protocols and Architectures	
ANSI T1.105.05-1994	. Telecommunications - Synchronous Optical Network (SONET) - Tandem Connection	on Maintenance
ANSI T1.105.06-1996	. Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Spe	cifications
ANSI T1.105.07-1996	. Telecommunications - Synchronous Optical Network (SONET) - Sub STS-1 Interface Rates and Formats Specification	
ANSI T1.105.07a-1997	. Telecommunications - Synchronous Optical Network (SONET) - Sub STS-1 Interface Specification (Inclusion of N X VT Group Interfaces)	e Rates and Formats
ANSI T1.105.09-1996	. Telecommunications - Synchronous Optical Network (SONET) - Network Element Timing and Synchronization	
ANSI T1.119-1994	. Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communica	tions
ANSI T1.119.01-1995	. Telecommunications - Synchronous Optical Network (SONET) - Operations, Admir Maintenance, and Provisioning (OAM&P) Communications - Protection Switching	nistration, Fragment
ANSI T1.245-1997	. Telecommunications - Directory Service for Telecommunications Management Net and Synchronous Optical Network (SONET)	work (TMN)
ANSI T1.514-1995	. Telecommunications - Network Performance Parameters and Objectives for Dedicated Digital Services - SONET Bit Rates	

I.7 Internet Protocols

http://www.ieft.org/rfc.html

The current document containing all official Internet protocols is RFC 2700: Internet Official Protocol Standards.

Mnemonic	Title	RFC#	STD#
	Internet Official Protocol Standards	2700	1
	Assigned Numbers	1700	2
	Requirements for Internet hosts – Communication Layers	1122	3
	Requirements for Internet hosts – Application and Support	1123	3
IP	Internet Protocol	791	5
ICMP	Internet Control Message Protocol	792	5
	Broadcasting Internet Datagrams	919	5
	Broadcasting Internet Datagrams in the Presence of Subnets	922	5
	Internet Standard Subnetting Procedure	950	5
IGMP	Host Extensions for IP Multicasting	1112	5
UDP	User Datagram Protocol	768	6
TCP	Transmission Control Protocol	793	7
TELNET	Telnet Protocol Specification	854	8
TELNET	Telnet Option Specifications	855	8

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Mnemonic	Title	RFC#	STD#
FTP	File Transfer Protocol	959	9
SMTP	Simple Mail Transfer Protocol	821	10
SMTP-EXT	SMTP Service Extensions	1869	10
SMTP-SIZE	SMTP Service Extension for Message Size Declaration	1870	10
MAIL	Standard for the Format of ARPA Internet Text Messages	822	11
DOMAIN	Domain Names - Concepts and Facilities	1034	13
DOMAIN	Domain Names - Implementation and Specification	on 1035	13
DNS-MX	Mail Routing and the Domain System	974	14
SNMP	Simple Network Management Protocol (SNMP)	1157	15
SMI	Structure and Identification of Management Information for TCP/IP-based Internets	1155	16
Concise-MI	Concise MIB Definitions	1212	16
MIB-II	Management Information Base for Network Management of TCP/IP-based Internets: MIB-II	1213	17
NETBIOS	Protocol Standard for a NetBIOS Service on a TCP/UDP Transport	1001	19
NETBIOS	Protocol Standard for a NetBIOS Service on a TCP/UDP Transport	1002	19
ECHO	Echo Protocol	862	20
DISCARD	Discard Protocol	863	21
CHARGEN	Character Generator Protocol	864	22
QUOTE	Quote of the Day Protocol	865	23
USERS	Active Users	866	24
DAYTIME	Daytime Protocol	867	25
TIME	Time Protocol	868	26
TOPT-BIN	Telnet Binary Transmission	856	27
TOPT-ECHO	Telnet Echo Option	857	28
TOPT-SUPP	Telnet Suppress Go Ahead Option	858	29
TOPT-STAT	Telnet Status Option	859	30
TOPT-TIM	Telnet Timing Mark Option	860	31
TOPT-EXTOP	Telnet Extended Options	861	32
TFTP	The TFTP Protocol (Revision 2)	1350	33
TP-TCP	ISO Transport Services on Top of the TCP	1006	35

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Mnemonic	Title	RFC#	STD#
IP-FDDI	Transmission of IP and ARP over FDDI Networks	1390	36
ARP	Ethernet Address Resolution Protocol	826	37
RARP	Reverse Address Resolution Protocol	903	38
IP-WB	Host Access Protocol specification	907	40
IP-E	Standard for the Transmission of IP Datagrams over Ethernet Networks	894	41
IP-EE	Standard for the Transmission of IP Datagrams over Experimental Ethernet Networks	895	42
IP-IEEE	Standard for the transmission of IP Datagrams over IEEE 802 Networks	1042	43
IP-DC	DCN Local-Network Protocols	891	44
IP-HC	Internet Protocol on Network System's HYPERchannel	1044	45
IP-ARC	Transmitting IP Traffic over ARCNET Networks	1201	46
IP-SLIP	Nonstandard for Transmission of IP Datagrams over Serial Lines	1055	47
IP-NETBIOS	Standard for the Transmission of IP Datagrams over NetBIOS Networks	1088	48
IP-IPX	Standard for the Transmission of 802.2 Packets over IPX Networks	1132	49
ETHER-MIB	Definitions of Managed Objects for the Ethernet- like Interface Types	1643	50
PPP	The Point-to-Point Protocol (PPP)	1661	51
PPP-HDLC	PPP in HDLC-like Framing	1662	51
IP-SMDS	Transmission of IP Datagrams over the SMDS Service	1209	52
POP3	Post Office Protocol - Version 3	1939	53
OSPF2	OSPF Version 2	2328	54
IP-FR	Multiprotocol Interconnect over Frame Relay	2427	55
RIP2	RIP Version 2	2453	56
RIP2-APP	RIP Version 2 Protocol Applicability Statement	1722	57
SMIv2	Structure of Management Information Version 2 (SMIv2)	2578	58
CONV-MIB	Textual Conventions for SMIv2	2579	58
CONF-MIB	Conformance Statements for SMIv2	2580	58
RMON-MIB	Remote Network Monitoring Management Information Base	2819	59