Network Working Group Internet Engineering Task Force Request for Comments: 2600 J. Reynolds Obsoletes: 2500, 2400, 2300, 2200, 2000, 1920, R. Braden 1880, 1800, 1780, 1720, 1610, 1600, 1540, 1500, Editors 1410, 1360, 1280, 1250, 1200, 1140, 1130, 1100, March 2000 1083 STD: 1 Category: Standards Track

Internet Official Protocol Standards

Status of this Memo

This memo describes the state of standardization of protocols used in the Internet as determined by the Internet Engineering Task Force (IETF). This memo is an Internet Standard. Distribution of this memo is unlimited.

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Overview

This memo is published by the RFC Editor in accordance with Section 2.1 of "The Internet Standards Process -- Revision 3", RFC 2026, which specifies the rules and procedures by which all Internet standards are set. This memo is prepared by the RFC Editor for the IESG and IAB. Please see http://www.rfc-editor.org for later updates to this document.

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1. Contacts

This section contains important contact information, for reference.

1.1. IAB, IETF, and IRTF Contacts

```
Internet Architecture Board (IAB) Contact: www.iab.org
Internet Engineering Task Force (IETF) Contact: www.ietf.org
Internet Research Task Force (IRTF) Contact: www.irtf.org
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1.2. Internet Assigned Numbers Authority (IANA) Contact

See: www.iana.org

1.3. Request for Comments Editor (RFC Editor) Contact

See: www.rfc-editor.org

The RFC Editor publishes documents that are the output of the IETF process or are submitted individually via electronic mail. Further information about the RFC series is contained in section 2.1, RFC 2026 and at http://www.rfc-editor.org.

How to obtain the most recent edition of this "Internet Official Protocol Standards" memo:

The file "in-notes/std/std1.txt" may be copied via FTP from the FTP.ISI.EDU computer using the FTP username "anonymous" and FTP password "guest".

1.4. Requests for Comments Distribution Contact

RFCs can be obtained via FTP from FTP.ISI.EDU, with the pathname innotes/rfcnnnn.txt (where "nnnn" refers to the number of the RFC). Login with FTP username "anonymous" and password "name@host.domain".

RFCs can also be obtained via electronic mail from ISI.EDU by using the RFC-INFO service. Address the request to "rfc-info@isi.edu" with a message body of:

Retrieve: RFC
Doc-ID: RFCnnnn

(Where "nnnn" refers to the number of the RFC (always use 4 digits - the DOC-ID of RFC 822 is "RFC0822")). The RFC-INFO@ISI.EDU server provides other ways of selecting RFCs based on keywords and such; for more information send a message to "rfc-info@isi.edu" with the message body "help: help".

contact: RFC-Manager@ISI.EDU

1.5. Sources for Requests for Comments

Details on many sources of RFCs via FTP or EMAIL may be obtained by sending an EMAIL message to "rfc-info@ISI.EDU" with the message body "help: ways_to_get_rfcs". For example:

To: rfc-info@ISI.EDU Subject: getting rfcs

help: ways_to_get_rfcs

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2. Current Technical Specifications

2.1. Standard Protocols Ordered by STD

Mnemonic	Title	RFC#	STD#
	Internet Official Protocol Standards	2600	1
	Assigned Numbers	1700	2
	Host Requirements - Applications	1123	3
	Host Requirements - Communications	1122	3
	Requirements for Internet gateways (Historic)	1009	4
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
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	1870	10
	Declaration		
MAIL	Standard for the format of ARPA Internet text messages	822	11
NTPV2	Network Time Protocol (version 2) specification and implementation	1119	12
DOMAIN	Domain names - concepts and facilities	1034	13
DOMAIN	Domain names - implementation and specification	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	1155	16
	information for TCP/IP-based internets		
Concise-MI	Concise MIB definitions	1212	16
MIB-II	Management Information Base for Network Management of TCP/IP-based internets:MIB-II	1213	17
EGP	Exterior Gateway Protocol formal specification (Historic)	904	18
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
ЕСНО	Echo Protocol	862	20

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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
RIP	Routing Information Protocol (Historic)	1058	34
TP-TCP	ISO transport services on top of the TCP	1006	35
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*
BBN1822	Internet Protocol on ARPANET	BBN1822	39
IP-WB	Host Access Protocol specification	907	40*
IP-E	Standard for the transmission of IP datagrams	894	41*
	over Ethernet networks		
IP-EE	Standard for the transmission of IP datagrams	895	42*
	over experimental Ethernet networks		
IP-IEEE	Standard for the transmission of IP datagrams	1042	43*
	over IEEE 802 networks		
IP-DC	DCN local-network protocols	891	
IP-HC	Internet Protocol on Network System's	1044	45*
	HYPERchannel	1001	4 (
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	1088	48*
	over NetBIOS networks		
IP-IPX	Standard for the transmission of 802.2 packets	1132	49*
	over IPX networks		
ETHER-MIB	Definitions of Managed Objects for the Ethernet-	1643	50
	like Interface Types		
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	1209	52
	Service		
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

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RFC 2600	Internet Standards	Marci	n 2000
SMIv2	Structure of Management Information Version 2 (SMIv2)	2578	58
CONV-MIB	Textual Conventions for SMIv2 Conformance Statements for SMIv2	2579 2580	58 58

[Note: an asterisk at the end of a line indicates a change from the previous edition of this document.]

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2.2. Standard Protocols Ordered by RFC

Mnemonic	Title	RFC#
CONF-MIB	Conformance Statements for SMIv2	2580
CONV-MIB	Textual Conventions for SMIv2	2579
SMIv2	Structure of Management Information Version 2 (SMIv2)	2578
	Internet Official Protocol Standards	2500
RIP2	RIP Version 2	2453
IP-FR	Multiprotocol Interconnect over Frame Relay	2427
OSPF2	OSPF Version 2	2328
POP3	Post Office Protocol - Version 3	1939
SMTP-SIZE	SMTP Service Extension for Message Size Declaration	1870
SMTP-EXT	SMTP Service Extensions	1869
RIP2-APP	RIP Version 2 Protocol Applicability Statement	1722
	Assigned Numbers	1700
PPP-HDLC	PPP in HDLC-like Framing	1662
PPP	The Point-to-Point Protocol (PPP)	1661
ETHER-MIB	Definitions of Managed Objects for the Ethernet- like Interface Types	1643
IP-FDDI	Transmission of IP and ARP over FDDI Networks	1390*
TFTP	The TFTP Protocol (Revision 2)	1350
MIB-II	Management Information Base for Network Management	1213
	of TCP/IP-based internets:MIB-II	
Concise-MI	Concise MIB definitions	1212
IP-SMDS	Transmission of IP datagrams over the SMDS Service	1209
IP-ARC	Transmitting IP traffic over ARCNET networks	1201*
SNMP	Simple Network Management Protocol (SNMP)	1157
SMI	Structure and identification of management information for TCP/IP-based internets	1155*
IP-IPX	Standard for the transmission of 802.2 packets	1132*
	over IPX networks	
	Host Requirements - Applications	1123
	Host Requirements - Communications	1122
NTPV2	Network Time Protocol (version 2) specification and implementation	1119*
IGMP	Host extensions for IP multicasting	1112
IP-NETBIOS	Standard for the transmission of IP datagrams over NetBIOS networks	1088*
RIP	Routing Information Protocol (Historic)	1058
IP-SLIP	Nonstandard for transmission of IP datagrams over serial lines	1055*
IP-HC	Internet Protocol on Network System's HYPERchannel	1044*
IP-IEEE	Standard for the transmission of IP datagrams over IEEE 802 networks	1042*
DOMAIN	Domain names - implementation and specification	1035
DOMAIN	Domain names - concepts and facilities	1034

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	Requirements for Internet gateways (Historic)	1009
TP-TCP	ISO transport services on top of the TCP	1006
NETBIOS	Protocol standard for a NetBIOS service on a TCP/UDP	1002
	transport	
NETBIOS	Protocol standard for a NetBIOS service on a TCP/UDP	1001
	transport	
DNS-MX	Mail routing and the domain system	974
FTP	File Transfer Protocol	959
	Internet Standard Subnetting Procedure	950
	Broadcasting Internet datagrams in the presence	922
	of subnets	
	Broadcasting Internet Datagrams	919
IP-WB	Host Access Protocol specification	907*
EGP	Exterior Gateway Protocol formal specification(Historic	904
RARP	Reverse Address Resolution Protocol	903*
IP-EE	Standard for the transmission of IP datagrams over	895*
	experimental Ethernet networks	
IP-E	Standard for the transmission of IP datagrams over	894*
	Ethernet networks	
IP-DC	DCN local-network protocols	891*
TIME	Time Protocol	868
DAYTIME	Daytime Protocol	867
USERS	Active users	866
QUOTE	Quote of the Day Protocol	865
CHARGEN	Character Generator Protocol	864
DISCARD	Discard Protocol	863
ECHO	Echo Protocol	862
TOPT-EXTOP	Telnet Extended Options	861
TOPT-TIM	Telnet Timing Mark Option	860
TOPT-STAT	Telnet Status Option	859
TOPT-SUPP	Telnet Suppress Go Ahead Option	858
TOPT-ECHO	Telnet Echo Option	857
TOPT-BIN	Telnet Binary Transmission	856
TELNET	Telnet Option Specifications	855
TELNET	Telnet Protocol Specification	854
ARP	Ethernet Address Resolution Protocol	826*
MAIL	Standard for the format of ARPA Internet text messages	822
SMTP	Simple Mail Transfer Protocol	821
TCP	Transmission Control Protocol	793
ICMP	Internet Control Message Protocol	792
IP	Internet Protocol	791
UDP	User Datagram Protocol	768
BBN1822	Internet Protocol on ARPANET BBN	11822

[Note: an asterisk at the end of a line indicates a change from the previous edition of this document.]

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2.3. Draft Standard Protocols

Mnemonic	Title	RFC#
VACM-SNMP	View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)	2575
USM-SNMPV3	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SMPv3)	2574
SNMP-APP	SNMP Applications	2573
MPD-SNMP	Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)	2572
ARCH-SNMP	An Architecture for Describing SNMP Management Frameworks	2571
ICMPv6	<pre>Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification</pre>	2463 1
IPV6-AUTO	IPv6 Stateless Address Autoconfiguration	2462
IPV6-ND	Neighbor Discovery for IP Version 6 (IPv6)	2461
IPV6	Internet Protocol, Version 6 (IPv6) Specification	2460
URI-GEN	Uniform Resource Identifiers (URI)	2396
IARP	Inverse Address Resolution Protocol	2390
TN3270E	TN3270 Enhancements	2355
TFTP-Opt	TFTP Timeout Interval and Transfer Size Options	2349
TFTP-Blk	TFTP Blocksize Option	2348
TFTP-Ext	TFTP Option Extension	2347
ONE-PASS	A One-Time Password System	2289
UTF-8	UTF-8, a transformation format of ISO 10646	2279*
SMTP-Pipe	SMTP Service Extension for Command Pipelining	2197
DHCP-BOOTP	DHCP Options and BOOTP Vendor Extensions	2132
DHCP	Dynamic Host Configuration Protocol	2131
FRAME-MIB	Management Information Base for Frame Relay DTEs Using SMIv2	2115
IP-HIPPI	IP over HIPPI	2067*
MIME-CONF	Multipurpose Internet Mail Extensions (MIME) Part File	2049
MIME-MSG	MIME (Multipurpose Internet Mail Extensions) Part Three	2047
MIME-MEDIA	Multipurpose Internet Mail Extensions (MIME) Part Two	2046
MIME	Multipurpose Internet Mail Extensions (MIME) Part One	2045
PPP-CHAP	PPP Challenge Handshake Authentication Protocol (CHAP)	1994
PPP-MP	The PPP Multilink Protocol (MP)	1990
PPP-LINK	PPP Link Quality Monitoring	1989
COEX-MIB	Coexistence between Version 1 and Version 2 of the Internet-standard Network Management Framework	1908
SNMPv2-MIB	Management Information Base for Version 2 of the Simple Network Management Protocol (SNMPv2)	1907
TRANS-MIB	Transport Mappings for Version 2 of the Simple Network Management Protocol (SNMPv2)	1906

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OPS-MIB	Protocol Operations for Version 2 of the Simple Network Management Protocol (SNMPv2)	1905
CON-MD5	The Content-MD5 Header Field	1864
OSPF-MIB	OSPF Version 2 Management Information Base	1850
RPC	XDR	1832*
STR-REP	A String Representation of Distinguished Names	1779
X.500syn	The String Representation of Standard Attribute	1778
	Syntaxes	
X.500lite	Lightweight Directory Access Protocol	1777
BGP-4-APP	Application of the Border Gateway Protocol in the Internet	1772
BGP-4	A Border Gateway Protocol 4 (BGP-4)	1771
PPP-DNCP	The PPP DECnet Phase IV Control Protocol (DNCP)	1762
RMON-MIB	Remote Network Monitoring Management Information Base	1757
802.5-MIB	IEEE 802.5 MIB using SMIv2	1748
RIP2-MIB	RIP Version 2 MIB Extension	1724
	RIP Version 2 Protocol Applicability Statement	1722
SIP-MIB	Definitions of Managed Objects for SMDS Interfaces using SMIv2	1694
	Definitions of Managed Objects for Parallel-printer- like Hardware Devices using SMIv2	1660
	Definitions of Managed Objects for RS-232-like Hardware Devices using SMIv2	1659
	Definitions of Managed Objects for Character Stream Devices using SMIv2	1658
BGP-4-MIB	Definitions of Managed Objects for the Fourth Version of the Border Gateway Protocol (BGP-4) using SMIv2	1657
SMTP-8BIT	SMTP Service Extension for 8bit-MIMEtransport	1652
OSI-NSAP	Guidelines for OSI NSAP Allocation in the Internet	1629
ISO-TS-ECH	An Echo Function for CLNP (ISO 8473)	1575
DECNET-MIB	DECnet Phase IV MIB Extensions	1559
	Clarifications and Extensions for the Bootstrap	1542
	Protocol	
	Interoperation Between DHCP and BOOTP	1534
BRIDGE-MIB	Definitions of Managed Objects for Bridges	1493
IP-X.25	Multiprotocol Interconnect on X.25 and ISDN in the Packet Mode	1356*
NTPV3	Network Time Protocol (Version 3) Specification, Implementation	1305
FINGER	The Finger User Information Protocol	1288
IP-MTU	Path MTU discovery	1191
TOPT-LINE	Telnet Linemode Option	1184
NICNAME	NICNAME/WHOIS	954
BOOTP	Bootstrap Protocol	951

[Note: an asterisk at the end of a line indicates a change from the previous edition of this document.]

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2.4. Proposed Standard Protocols

Mnemonic	Title	RFC#
	Generic Routing Encapsulation (GRE)	2784*
	A DNS RR for specifying the location of services (DNS SRV)	2782*
	Multicast-Scope Zone Announcement Protocol (MZAP)	2776*
RPSL	Routing Policy System Replication	2769*
	Network Address Translation - Protocol Translation (NAT-PT)	2766*
	Stateless IP/ICMP Translation Algorithm (SIIT)	2765*
	Identity Representation for RSVP	2752*
RSVP	Signaled Preemption Priority Policy Element	2751*
	RSVP Extensions for Policy Control	2750*
	COPS usage for RSVP	2749*
QOS	The COPS (Common Open Policy Service) Protocol	2748*
	RSVP Cryptographic Authentication	2747*
	RSVP Operation Over IP Tunnels	2746*
	RSVP Diagnostic Messages	2745*
GSS-API	Generic Security Service API Version 2	2744*
GSS-API	Generic Security Service Application Program Interface Version 2, Update 1	2743*
	Definitions of Managed Objects for Extensible SNMP Agents	2742*
SNMP	Agent Extensibility (AgentX) Protocol Version 1	2741*
	OSPF for IPv6	2740*
	Calendar Attributes for vCard and LDAP	2739*
	Corrections to "A Syntax for Describing Media Feature Sets"	2738*
	Entity MIB (Version 2)	2737*
	NHRP Support for Virtual Private Networks	2735*
	IPv4 over IEEE 1394	2734*
	An RTP Payload Format for Generic Forward Error Correction	2733*
	Format for Literal IPv6 Addresses in URL's	2732*
	Multicast Address Dynamic Client Allocation Protocol (MADCAP)	2730*
	The Transmission of IP Over the Vertical Blanking Interval of a Television Signal	2728*
	PGP Authentication for RIPE Database Updates	2726*
	Routing Policy System Security	2725*
	Traffic Flow Measurement	2720*
	Addition of Kerberos Cipher Suites to Transport Layer Security (TLS)	2712*
	IPv6 Router Alert Option	2711*
	Multicast Listener Discovery (MLD) for IPv6	2710*

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	Integrated Services Mappings for Low Speed Networks	2688*
PPP	PPP in a Real-time Oriented HDLC-like Framing	2687*
PPP	The Multi-Class Extension to Multi-Link PPP	2686*
IP	Virtual Private Networks Identifier	2685*
	Multiprotocol Encapsulation over ATM Adaptation Layer5	
	A Round-trip Delay Metric for IPPM	2681*
	A One-way Packet Loss Metric for IPPM	2680*
	A One-way Delay Metric for IPPM	2679*
IPPM-MET	IPPM Metrics for Measuring Connectivity	2678*
	Definitions of Managed Objects for the NBMA Next	2677*
	Hop Resolution Protocol (NHRP)	
	IPv6 Jumbograms	2675*
	Definitions of Managed Objects for Bridges with	2674*
	Traffic Classes, Multicast Filtering and Virtual	
	LAN Extensions	
DNS	Binary Labels in the Domain Name System	2673*
	Non-Terminal DNS Name Redirection	2672*
	Extension Mechanisms for DNS (EDNS0)	2671*
	Radio Frequency (RF) Interface Management Information	2670*
	Base for MCNS/DOCSIS compliant RF interfaces	
	DOCSIS Cable Device MIB Cable Device Management	2669*
	Information Base for DOCSIS compliant Cable	
	Modems and Cable Modem Termination Systems	
	Definitions of Managed Objects for IEEE 802.3 Medium	2668*
	Attachment Units (MAUs)	
	IP Tunnel MIB	2667*
	Definitions of Managed Objects for the Ethernet-	2665*
	like Interface Types	
	Definitions of Managed Objects for the ADSL Lines	2662*
PPP	Layer Two Tunneling Protocol "L2TP"	2661*
	RTP Payload Format for PureVoice(tm) Audio	2658*
	CIP Transport Protocols	2653*
	MIME Object Definitions for the Common Indexing	2652*
	Protocol (CIP)	
	The Architecture of the Common Indexing Protocol (CIP)	2651*
	The Text/Plain Format Parameter	2646*
	ON-DEMAND MAIL RELAY (ODMR) SMTP with Dynamic IP	2645*
	Addresses	
INT-FTP	Internationalization of the File Transfer Protocol	2640*
	Enhanced Security Services for S/MIME	2634*
	S/MIME Version 3 Message Specification	2633*
	S/MIME Version 3 Certificate Handling	2632*
	Diffie-Hellman Key Agreement Method	2631*
	Cryptographic Message Syntax	2630*
	IP and ARP over Fibre Channel	2625*
	NFS Version 2 and Version 3 Security Issues and	2623*
	the NFS Protocol's Use of RPCSEC_GSS and Kerberos V	
	Routing Policy Specification Language (RPSL)	, 2622*
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	RADIUS Authentication Server MIB	2619*
	RADIUS Authentication Client MIB	2618*
DAA	HTTP Authentication: Basic and Digest Access Authentication	2617*
HTTP-1.1	Hypertext Transfer Protocol HTTP/1.1	2616*
	PPP over SONET/SDH	2615*
	Remote Network Monitoring MIB Extensions for Switched Networks Version 1.0	2613*
DHCP-SLP	DHCP Options for Service Location Protocol	2610*
	Service Templates and Service	2609*
SLP	Service Location Protocol, Version 2	2608*
	Directory Server Monitoring MIB	2605*
	ILMI-Based Server Discovery for NHRP	2603*
	ILMI-Based Server Discovery for MARS	2602*
	ILMI-Based Server Discovery for ATMARP	2601*
	An Expedited Forwarding PHB	2598*
	Assured Forwarding PHB Group	2597*
	Use of Language Codes in LDAP	2596*
	Using TLS with IMAP, POP3 and ACAP	2595*
	Definitions of Managed Objects for WWW Services	2594*
	Definitions of Managed Objects for the Delegation of Management Script	2592*
	Definitions of Managed Objects for Scheduling Management Operations	2591*
	Transmission of IPv6 Packets over Frame Relay	2590*
LDAPv3	Lightweight Directory Access Protocol (v3)	2589*
	Internet X.509 Public Key Infrastructure LDAPv2 Schema	2587*
	Internet X.509 Public Key Infrastructure Operational Protocols	2585
	Definitions of Managed Objects for APPN/HPR in IP Networks	2584
TCP-CC	TCP Congestion Control	2581
	Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management	2576*
ADD MID	Framework	0564
APP-MIB	Application Management MIB	2564
	DHCP Option to Disable Stateless Auto-Configuration in IPv4 Clients	2563
	Definitions of Protocol and Managed Objects for TN3270E Response Time Collection Using SMIv2	2562
	(TN3270E-RT-MIB) Base Definitions of Managed Objects for TN3270E Using SMIv2	2561
PKIX	X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP	2560*
	Internet X.509 Public Key Infrastructure Operational Protocols - LDAPv2	2559
	Definitions of Managed Objects for the SONET/SDH	2558

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	Interface Type	
MHTML	MIME Encapsulation of Aggregate Documents, such as HTML (MHTML)	2557
	SMTP Service Extension for Authentication	2554
	Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing	2545
SIP	SIP	2543
DHK-DNS	Storage of Diffie-Hellman Keys in the Domain Name System (DNS)	2539
SC-DNS	Storing Certificates in the Domain Name System (DNS)	2538
	RSA/MD5 KEYs and SIGs in the Domain Name System (DNS)	2537
	DSA KEYs and SIGs in the Domain Name System (DNS)	2536
DNS-SECEXT	Domain Name System Security Extensions	2535
	Media Features for Display, Print, and Fax	2534
	A Syntax for Describing Media Feature Sets	2533*
	Extended Facsimile Using Internet Mail	2532*
	Content Feature Schema for Internet Fax	2531
	Indicating Supported Media Features Using Extensions to DSN and MDN	2530*
	Transmission of IPv6 over IPv4 Domains without Explicit Tunnels	2529
	Reserved IPv6 Subnet Anycast Addresses	2526
WEBDAV	HTTP Extensions for Distributed Authoring WEBDAV	2518
ATM-MIBMAN	Definitions of Managed Objects for ATM Management	2515
ATM-TC-OID	Definitions of Textual Conventions and OBJECT-IDENTITIES for ATM Management	2514
	Managed Objects for Controlling the Collection	2513
	and Storage of Accounting Information for	2313
	Connection-Oriented Networks	
	Accounting Information for ATM Networks	2512
	Internet X.509 Certificate Request Message Format	2512
PKICMP	Internet X.509 Public Key Infrastructure Certificate	2510
PKICMP	Management Protocols	2310
IPCOM-PPP	IP Header Compression over PPP	2509
IPCOM-PPP	Compressing IP/UDP/RTP Headers for Low-Speed Serial	2508
	Links	
	IP Header Compression	2507
	Transmission of IPv6 Packets over ARCnet Networks	2497
DS3-E3-MIB	Definitions of Managed Object for the DS3/E3 Interface Type	
	Definitions of Managed Objects for the DS1, E1, DS2 and E2 Interface Types	2495
	Definitions of Managed Objects for the DSO and DSO Bundle Interface Type	2494
	Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals	2493
IPv6ATMNET	IPv6 over ATM Networks	2492
	(()	0401
IPv6-NBMA	IPv6 over Non-Broadcast Multiple Access (NBMA)	2491

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	networks	
	SMTP Service Extension for Secure SMTP over TLS	2487
NAI	The Network Access Identifier	2486
	DHCP Option for The Open Group's User Authentication Protocol	2485
	PPP LCP Internationalization Configuration Option	2484
	Gateways and MIME Security Multiparts	2480
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TOPT-TS	Telnet terminal speed option	1079
TOPT-NAWS	Telnet window size option	1073
TOPT-X.3	Telnet X.3 PAD option	1053
TOPT-DATA	Telnet Data Entry Terminal option	1043*
TOPT-3270	Telnet 3270 regime option	1041
NNTP	Network News Transfer Protocol	977
TOPT-TLN	Telnet terminal location number option	946
TOPT-OM	Output marking Telnet option	933
TOPT-TACAC	TACACS user identification Telnet option	927
TOPT-EOR	Telnet end of record option	885
TOPT-SNDL	Telnet send-location option	779
TOPT-SUPO	Telnet SUPDUP-Output option	749
TOPT-SUP	Telnet SUPDUP option	736
TOPT-BYTE	Revised Telnet byte macro option	735
TOPT-LOGO	Telnet logout option	727
TOPT-REM	Remote Controlled Transmission and Echoing Telnet Opt	726
TOPT-EXT	Telnet extended ASCII option	698

[Note: an asterisk at the end of a line indicates a change from the previous edition of this document.]

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2.5. Experimental Protocols

Mnemonic	Title	RFC#
	Diffie-Helman USM Key Management Information Base and Textual Convention	2786*
	An HTTP Extension Framework	2774*
	Encryption using KEA and SKIPJACK	2773*
	GLOP Addressing in 233/8	2770*
	Sampling of the Group Membership in RTP	2762*
	Definitions of Managed Objects for Service Level	2758*
	Agreements Performance Monitoring	
HTTP	Hyper Text Caching Protocol (HTCP/0.0)	2756*
	RTFM	2724*
	PPP EAP TLS Authentication Protocol	2716*
SPKI	SPKI Certificate Theory	2693*
SKPI	SPKI Requirements	2692*
	QoS Routing Mechanisms and OSPF Extensions	2676*
	The Secure HyperText Transfer Protocol	2660*
	Security Extensions For HTML	2659*
	LDAPv2 Client vs. the Index Mesh	2657*
	Registration Procedures for SOIF Template Types	2656*
	CIP Index Object Format for SOIF Objects	2655*
CIP	A Tagged Index Object for use in the Common Indexing Protocol	2654*
	An LDAP Control and Schema for Holding Operation	2649*
	Signatures	
	Script MIB Extensibility Protocol Version 1.0	2593*
	The NewReno Modification to TCP's Fast Recovery	2582
	Algorithm	
	Mapping between LPD and IPP Protocols	2569
IPP-RAT	Rationale for the Structure of the Model and Protocol for the Internet Printing Protocol	2568
IPP-DG	Design Goals for an Internet Printing Protocol	2567
IPP-M-S	Internet Printing Protocol/1.0	2566
IPP-E-T	Internet Printing Protocol/1.0	2565
DNS-INFO	Detached Domain Name System (DNS) Information	2540
PHOTURIS-E	Photuris	2523
PHOTURIS-S	Photuris	2522
ICMP-SEC	ICMP Security Failures Messages	2521
NHRP-MNHCS	NHRP with Mobile NHCs	2520
IPPM-MET	IPPM Metrics for Measuring Connectivity	2498
	URI Resolution Services Necessary for URN Resolution	2483
ECN-IP	A Proposal to add Explicit Congestion Notification (ECN) to IP	2481
	IPv6 Testing Address Allocation	2471
	A Distributed MARS Service Using SCSP	2443*
	II DIDCIIDACCA PERO DCIVICO OBING DCDI	2110

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TCP-WIN	Increasing TCP's Initial Window	2414
PIM-SM	Protocol Independent Multicast-Sparse Mode (PIM-SM)	2362
	Domain Names and Company Name Retrieval	2345
RTP-MPEG	RTP Payload Format for Bundled MPEG	2343
	Intra-LIS IP multicast among routers over ATM using	2337
	Sparse Mode PIM	
	The Safe Response Header Field	2310
LDAP-NIS	An Approach for Using LDAP as a Network Information	2307
	Service	
HTTP-RVSA	HTTP Remote Variant Selection Algorithm RVSA/1.0	2296
TCN-HTTP	Transparent Content Negotiation in HTTP	2295
TOPT-COMPO	Telnet Com Port Control Option	2217
	Core Based Trees (CBT) Multicast Routing Architecture	2201
	Core Based Trees (CBT version 2) Multicast Routing	2189
	A Trivial Convention for using HTTP in URN Resolution	2169
	Resolution of Uniform Resource Identifiers using	2168
	the Domain Name System	
MAP-MAIL	MaXIM-11 - Mapping between X.400 / Internet mail	2162
	and Mail-11 mail	
MIME-ODA	A MIME Body Part for ODA	2161
OSPF-DIG	OSPF with Digital Signatures	2154
IP-SCSI	Encapsulating IP with the Small Computer System	2143
	Interface	
X.500-NAME	Managing the X.500 Root Naming Context	2120
GKMP-ARCH	Group Key Management Protocol (GKMP) Architecture	2094
GKMP-SPEC	Group Key Management Protocol (GKMP) Specification	2093
TFTP-MULTI	TFTP Multicast Option	2090
IP-Echo	IP Echo Host Service	2075
TOPT-CHARS	TELNET CHARSET Option	2066
METER-MIB	Traffic Flow Measurement	2064
TFM-ARCH	Traffic Flow Measurement	2063
DNS-SRV	A DNS RR for specifying the location of services (DNS SRV)	2052
URAS	Uniform Resource Agents (URAs)	2016
GPS-AR	GPS-Based Addressing and Routing	2010
ETFTP	Experiments with a Simple File Transfer Protocol	1986
FILIF	for Radio Links using Enhanced Trivial File	1900
	Transfer Protocol (ETFTP)	
BGP-RR	BGP Route Reflection An alternative to full mesh IBGP	1966
BGP-ASC	Autonomous System Confederations for BGP	1965
SMKD	Scalable Multicast Key Distribution	1949
HTML-TBL	HTML Tables	1942
SNMPV2SM	User-based Security Model for SNMPv2	1910
SNMPV2AI	An Administrative Infrastructure for SNMPv2	1909
SNMPV2CB	Introduction to Community-based SNMPv2	1901
5NMF V Z C B	IPv6 Testing Address Allocation	1897
	OSI NSAPs and IPv6	1888*
	001 1.0112 WIN 11 10	1000

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DNS-LOC	A Means for Expressing Location Information in the Domain Name System	1876
SGML-MT	SGML Media Types	1874
CONT-MT	Message/External-Body Content-ID Access Type	1873
UNARP	ARP Extension - UNARP	1868
	Form-based File Upload in HTML	1867
	A BGP/IDRP Route Server alternative to a full mesh routing	1863
	IP Authentication using Keyed SHA	1852
ESP3DES	The ESP Triple DES Transform	1851
	SMTP 521 Reply Code	1846
	SMTP Service Extension for Checkpoint/Restart Directory	1845
	Representing the O/R Address hierarchy in the X.500 Directory Information Tree	1836
	SMTP Service Extensions for Transmission of Large and Binary MIME Messages	1830
ST2	Internet Stream Protocol Version 2 (ST2) Protocol Specification - Version ST2+	1819
	Communicating Presentation Information in Internet Messages	1806
	Schema Publishing in X.500 Directory	1804
	MHS use of the X.500 Directory to support MHS Routing	1801
	Class A Subnet Experiment	1797
TCP/TPXMTB	TCP/IPX Connection Mib Specification	1792
	TCP And UDP Over IPX Networks With Fixed Path MTU	1791
ICMP-DM	ICMP Domain Name Messages	1788
CLNP-MULT	Host Group Extensions for CLNP Multicasting	1768
OSPF-OVFL	OSPF Database Overflow	1765
RWP	Remote Write Protocol - Version 1.0	1756
NARP	NBMA Address Resolution Protocol (NARP)	1735
	DNS Encoding of Geographical Location	1712
TCP-POS	An Extension to TCP	1693
T/TCP	T/TCP TCP Extensions for Transactions Functional	1644
	Specification	
MIME-UNI	Using Unicode with MIME	1641
FOOBAR	FTP Operation Over Big Address Records (FOOBAR)	1639
	Charting Networks in the X.500 Directory	1609
X500-DIR	Representing IP Information in the X.500 Directory	1608
SNMP-DPI	Simple Network Management Protocol Distributed Protocol Interface Version 2.0	1592
CLNP-TUBA	Use of ISO CLNP in TUBA Environments	1561
REM-PRINT	Principles of Operation for the TPC.INT Subdomain	1528
DASS	DASS - Distributed Authentication Security Service	1507*
EHF-MAIL	Encoding Header Field for Internet Messages	1505
RAP	RAP	1476
TP/IX	TP/IX	1475

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X400	Routing Coordination for X.400 MHS Services Within	1465
	a Multi Protocol / Multi Network Environment	
	Table Format V3 for Static Routing	
DNS	Using the Domain Name System To Store Arbitrary	1464
	String Attributes	
IRCP	Internet Relay Chat Protocol	1459
TOS-LS	Physical Link Security Type of Service	1455
SIFT/UFT	SIFT/UFT	1440
DIR-ARP	Directed ARP	1433
TOPT-AUTH	Telnet Authentication Option	1416
TEL-SPX	Telnet Authentication	1412
TEL-KER	Telnet Authentication	1411
TRACE-IP	Traceroute Using an IP Option	1393
DNS-IP	An Experiment in DNS Based IP Routing	1383
RMCP	Remote Mail Checking Protocol	1339
MSP2	Message Send Protocol 2	1312
DSLCP	Dynamically Switched Link Control Protocol	1307
	X.500 and Domains	1279
IN-ENCAP	Scheme for an internet encapsulation protocol	1241
CLNS-MIB	CLNS MIB for use with Connectionless Network Protocol	1238
	(ISO 8473) and End System to Intermediate	
	System (ISO 9542)	
CFDP	Coherent File Distribution Protocol	1235
IP-AX.25	Internet protocol encapsulation of AX.25 frames	1226
ALERTS	Techniques for managing asynchronously generated	1224
	alerts	
MPP	Message Posting Protocol (MPP)	1204
SNMP-BULK	Bulk Table Retrieval with the SNMP	1187
DNS-RR	New DNS RR Definitions	1183
IMAP2	Interactive Mail Access Protocol	1176
NTP-OSI	Network Time Protocol (NTP) over the OSI Remote	1165
	Operations Service	
	Message Send Protocol	1159
DMF-MAIL	Digest message format	1153
RDP	Version 2 of the Reliable Data Protocol (RDP)	1151
TCP-ACO	TCP alternate checksum options	1146
	The Q Method of Implementing TELNET Option Negotiation	1143
IP-DVMRP	Distance Vector Multicast Routing Protocol	1075
VMTP	VMTP	1045
COOKIE-JAR	Distributed-protocol authentication scheme	1004
NETBLT	NETBLT	998
IRTP	Internet Reliable Transaction Protocol functional	938
	and interface specification	

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LDP	Loader Debugger Protocol	909
RDP	Reliable Data Protocol	908
NVP-II	Network Voice Protocol	ISI-memo
PVP	Packet Video Protocol	ISI-memo

[Note: an asterisk at the end of a line indicates a change from the previous edition of this document.]

2.6. Historic Protocols

Mnemonic	Title	RFC#
L2F	Cisco Layer Two Forwarding (Protocol) "L2F"	2341
IPV6-UNI	An IPv6 Provider-Based Unicast Address Format	2073
	RIPv1 Applicability Statement for Historic Status	1923
IPV6-Addr	IP Version 6 Addressing Architecture	1884
SNMPv2	Manager-to-Manager Management Information Base	1451
SNMPv2	Party MIB for version 2 of the Simple Network Management Protocol (SNMPv2)	1447
SNMPv2	Security Protocols for version 2 of the Simple Network Management Protocol (SNMPv2)	1446
SNMPv2	Administrative Model for version 2 of the Simple Network Management Protocol (SNMPv2)	1445
TOPT-ENVIR	Telnet Environment Option	1408
SNMP-PARTY	Definitions of Managed Objects for Administration of SNMP Parties	1353*
SNMP-SEC	SNMP Security Protocols	1352*
SNMP-ADMIN	SNMP Administrative Model	1351*
BGP3	Application of the Border Gateway Protocol in the Internet	1268
BGP3	Border Gateway Protocol 3 (BGP-3)	1267
OSI-UDP	OSI connectionless transport services on top of UDP	1240*
802.4-MIP	IEEE 802.4 Token Bus MIB	1230
SNMP-MUX	SNMP MUX protocol and MIB	1227
OIM-MIB-II	OSI internet management	1214
IMAP3	Interactive Mail Access Protocol	1203
CMOT	Common Management Information Services and Protocols for the Internet (CMOT and CMIP)	1189
BGP	Application of the Border Gateway Protocol in the Internet	1164
BGP	Border Gateway Protocol (BGP)	1163
MIB-I	Management Information Base for network management of TCP/IP-based internets	1156
	Mapping between full RFC 822 and RFC 822 with restricted encoding	1137
	Privacy enhancement for Internet electronic mail	1115

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	Privacy enhancement for Internet electronic mail	1114
	Privacy enhancement for Internet electronic mail	1113
IPSO	U.S. Department of Defense Security Options for	1108
	the Internet Protocol	
RIP	Routing Information Protocol (STD34	4) 1058
SUN-RPC	RPC	1050
CONTENT	Content-type header field for Internet messages	1049
NFILE	NFILE - a file access protocol	1037
SGMP	Simple Gateway Monitoring Protocol	1028
HEMS	High-level Entity Management System (HEMS)	1021
	Requirements for Internet gateways (STI	04) 1009
STATSRV	Statistics server	996
HOSTNAME	Hostname Server	953
POP2	Post Office Protocol	937
HFEP	Proposed Host-Front End Protocol	929
RATP	Reliable Asynchronous Transfer Protocol	916
THINWIRE	Thinwire protocol for connecting personal computers	s 914
	to the Internet	
SFTP	Simple File Transfer Protocol	913
EGP	Exterior Gateway Protocol formal specification (STI	018) 904
HMP	Host Monitoring Protocol	869
GGP	DARPA Internet gateway	823
RTELNET	Remote User Telnet service	818
CLOCK	DCNET Internet Clock Service	778
MPM	Internet Message Protocol	759
NETRJS	NETRJS Protocol	740
SUPDUP	SUPDUP Protocol	734
TOPT-OLD	Telnet output linefeed disposition	658
TOPT-OVTD	Telnet output vertical tab disposition option	657
TOPT-OVT	Telnet output vertical tabstops option	656
TOPT-OFD	Telnet output formfeed disposition option	655
TOPT-OHTD	Telnet output horizontal tab disposition option	654
TOPT-OHT	Telnet output horizontal tabstops option	653
TOPT-OCRD	Telnet output carriage-return disposition option	652
NETED	NETED	569
RJE	Remote Job Entry Protocol	407
XNET	Cross Net Debugger	IEN-158
NAMESERVER	Host Name Server Protocol	IEN-116
MUX	Multiplexing Protocol	IEN-90
GRAPHICS	Graphics Protocol	NIC-24308

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3. Security Coniderations

This memo does not affect the technical security of the Internet, but it does cite a number of important security specifications.

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