Network Working Group
Request for Comments: 3600
Obsoletes: 3300
STD: 1
Category: Standards Track

Internet Engineering Task Force
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November 2003

Internet Official Protocol Standards

Status of this Memo

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Abstract

This memo contains a snapshot of the state of standardization of protocols used in the Internet as of October 2, 2003. It lists official protocol standards and Best Current Practice RFCs; it is not a complete index to the RFC series. The latest version of this memo is designated STD 1.

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1. Overview

This memo contains a snapshot of the state of standardization of protocols used in the Internet, as determined by the Internet Engineering Task Force (IETF). It is an October 2, 2003 snapshot of the current official protocol standards list and the Best Current Practice list, which is updated daily and is available from the RFC Editor Web site.

The RFC Editor publishes Request for Comments (RFC) 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.

This memo is published by the RFC Editor for the IESG and IAB 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. Sections 3.1 - 3.7 of this memo contain the lists of protocols in each stage of standardization - Standard, Draft Standard, Proposed Standard, Experimental, as well as Best Current Practice documents. Protocols that are new to this document or have been moved from one protocol level to another, or that differ from the previous edition of this document are marked with an asterisk. Informational and Historic RFCs are not included. This memo lists the current standards track, Best Current Practice, and Experimental protocols; it is not a complete index to RFCs.

2. Resources

This section contains important contact information, for reference.

2.1. Internet-Related Organizations

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

Internet Assigned Numbers Authority (IANA) Contact: www.iana.org

2.2. Request for Comments Editor (RFC Editor) Web Pages

The RFC Editor maintains the official repository of all RFCs and indexes to them. The RFC Editor web site is:

http://www.rfc-editor.org.

At this URL, a user can:

(a) Obtain the current "Internet Official Protocol Standards" list. See:

http://www.rfc-editor.org/rfcxx00.html

This hyper-linked listing is updated daily.

(b) Retrieve the latest version of this STD 1 memo. See:

http://www.rfc-editor.org/go.html, and select STD and "1".

(c) Retrieve text of any RFC. See:

http://www.rfc-editor.org/go.html

(d) Search for RFCs by category. See:

http://www.rfc-editor.org/category.html

(e) Search the RFC index for document number, author, title, and/or keywords, and retrieve the text of any matching documents. See:

http://www.rfc-editor.org/rfcsearch.html

RFC information can also be retrieved using FTP or email.

2.3 Retrieval using FTP

RFC-related files may be copied via FTP from the FTP.RFC-EDITOR.ORG computer using the FTP username "anonymous" and password "name@host.domain". An FTP user can:

(a) Retrieve the latest version of this STD 1 memo.

File: "in-notes/std/std1.txt"

(b) Retrieve text of any RFC.

File: "in-notes/rfcnnnn.txt" will retrieve the ASCII version. Some RFCs also have secondary Postscript and/or PDF versions, available from File: "in-notes/rfcnnnn.ps" and/or "in-notes/rfcnnnn.pdf", respectively.

Here "nnnn" is a 1-4 digit RFC number, with no leading zeros.

2.4 Search and Retrieval Using Email

To use the RFC Editor's email-based RFC-INFO service, send a request to:

RFC-INFO@RFC-EDITOR.ORG

In the message body, include your information request. For example, the following message bodies may be used.

(a) To retrieve the latest version of this STD 1 memo:

```
Retrieve: STD
   Doc-ID: STD0001
```

(b) To retrieve ASCII text of any RFC:

```
Retrieve: RFC
   Doc-ID: RFCnnnn
```

Here "nnnn" must be filled with leading zeros to 4 digits.

(c) The RFC-INFO@RFC-EDITOR.ORG server provides other capabilities, e.g., search and retrieval based on author, title, and/or keyword. For more information, send the following message body to the server:

```
help: help
```

The server will email back the results.

3. Current Technical Specifications

3.1. Standard Protocols Ordered by STD

Mnemonic	Title	RFC#	STD#
--------	Internet Official Protocol Standards	3600	1*
--------	[Reserved for Assigned Numbers. See RFC 1700 and RFC 3232.]		2
--------	Requirements for Internet Hosts - Communication Layers	1122	3
--------	Requirements for Internet Hosts - Application and Support	1123	3
--------	[Reserved for Router Requirements. See RFC 1812.]		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-SIZE	SMTP Service Extension for Message Size Declaration	1870	10
MAIL	Standard for the format of ARPA Internet text messages	822	11
--------	[Reserved for Network Time Protocol (NTP). See RFC 1305.]		12
DOMAIN	Domain names - concepts and facilities	1034	13
DOMAIN	Domain names - implementation and specification	1035	13
--------	[Was Mail Routing and the Domain System. Now Historic.]		14
--------	[Was Simple Network Management Protocol. Now Historic.]		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
--------	[Was Exterior Gateway Protocol (RFC 904). Now Historic.]		18
NETBIOS	Protocol standard for a NetBIOS service on a TCP/UDP transport: Concepts and methods	1001	19
NETBIOS	Protocol standard for a NetBIOS service on	1002	19

	a TCP/UDP transport: Detailed specifications		
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: List Option	861	32
TFTP	The TFTP Protocol (Revision 2)	1350	33
--------	[Was Routing Information Protocol (RIP). Replaced by STD 56.]		34
TP-TCP	ISO transport services on top of the TCP: Version 3	1006	35
IP-FDDI	Transmission of IP and ARP over FDDI Networks	1390	36
ARP	Ethernet Address Resolution Protocol: Or converting network protocol addresses to 48.bit Ethernet address for transmission on Ethernet hardware	826	37
RARP	Reverse Address Resolution Protocol	903	38
IP-ARPA	[Was BBN Report 1822 (IMP/Host Interface). Now Historic.]		39
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: Protocol specification	1044	45
IP-ARC	Transmitting IP traffic over ARCNET networks	1201	46
IP-SLIP	Nonstandard for transmission of IP datagrams over serial lines: SLIP	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
--------	[Reserved for Definitions of Managed Objects for the Ethernet-like Interface Types. See RFC 3638.]		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
SMTP-Pipe	SMTP Service Extension for Command Pipelining	2920	60
ONE-PASS	A One-Time Password System	2289	61
ARCH-SNMP	An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks	3411	62*
MPD-SNMP	Message Processing and Dispatching for the Simple Network Management Protocol (SNMP)	3412	62*
SNMP-APP	Simple Network Management Protocol (SNMP) Applications	3413	62*
USM-SNMPV3	User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)	3414	62*
VACM-SNMP	View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP)	3415	62*
OPS-MIB	Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP)	3416	62*
TRANS-MIB	Transport Mappings for the Simple Network Management Protocol (SNMP)	3417	62*
SNMPv2-MIB	Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)	3418	62*

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

3.2. Standard Protocols Ordered by RFC

Mnemonic	Title	STD#	RFC#
--------	Internet Official Protocol Standards	1	3600*
	Simple Network Management Protocol (SNMP)		
SNMPv2-MIB	Management Information Base (MIB) for the	62	3418*
	Simple Network Management Protocol (SNMP)		
TRANS-MIB	Transport Mappings for the Simple Network	62	3417*
	Management Protocol (SNMP)		
OPS-MIB	Version 2 of the Protocol Operations for the	62	3416*
	Simple Network Management Protocol (SNMP)		
VACM-SNMP	View-based Access Control Model (VACM) for	62	3415*
	the Simple Network Management Protocol (SNMP)		
USM-SNMPV3	User-based Security Model (USM) for version	62	3414*
	3 of the Simple Network Management Protocol		
	(SNMPv3)		
SNMP-APP	Simple Network Management Protocol (SNMP)	62	3413*
	Applications		
MPD-SNMP	Message Processing and Dispatching for the	62	3412*
	Simple Network Management Protocol (SNMP)		
ARCH-SNMP	An Architecture for Describing Simple Network	62	3411*
	Management Protocol (SNMP) Management Frameworks		
SMTP-Pipe	SMTP Service Extension for Command Pipelining	60	2920
RMON-MIB	Remote Network Monitoring Management Information	59	2819
	Base		
CONF-MIB	Conformance Statements for SMIv2	58	2580
CONV-MIB	Textual Conventions for SMIv2	58	2579
SMIv2	Structure of Management Information Version	58	2578
	2 (SMIv2)		
RIP2	RIP Version 2	56	2453
IP-FR	Multiprotocol Interconnect over Frame Relay	55	2427
OSPF2	OSPF Version 2	54	2328
ONE-PASS	A One-Time Password System	61	2289
POP3	Post Office Protocol - Version 3	53	1939
SMTP-SIZE	SMTP Service Extension for Message Size Declaration	10	1870
RIP2-APP	RIP Version 2 Protocol Applicability Statement	57	1722
PPP-HDLC	PPP in HDLC-like Framing	51	1662
PPP	The Point-to-Point Protocol (PPP)	51	1661
IP-FDDI	Transmission of IP and ARP over FDDI Networks	36	1390
TFTP	The TFTP Protocol (Revision 2)	33	1350
MIB-II	Management Information Base for Network Management	17	1213
	of TCP/IP-based internets:MIB-II		
Concise-MI	Concise MIB definitions	16	1212
IP-SMDS	Transmission of IP datagrams over the SMDS Service	52	1209
IP-ARC	Transmitting IP traffic over ARCNET networks	46	1201
SMI	Structure and identification of management	16	1155
	information for TCP/IP-based internets		

IP-IPX	Standard for the transmission of 802.2 packets over IPX networks	49	1132
--------	Requirements for Internet Hosts - Application and Support	3	1123
--------	Requirements for Internet Hosts - Communication Layers	3	1122
IGMP	Host extensions for IP multicasting	5	1112
IP-NETBIOS	Standard for the transmission of IP datagrams over NetBIOS networks	48	1088
IP-SLIP	Nonstandard for transmission of IP datagrams over serial lines: SLIP	47	1055
IP-HC	Internet Protocol on Network System's HYPERchannel: Protocol specification	45	1044
IP-IEEE	Standard for the transmission of IP datagrams over IEEE 802 networks	43	1042
DOMAIN	Domain names - implementation and specification	13	1035
DOMAIN	Domain names - concepts and facilities	13	1034
TP-TCP	ISO transport services on top of the TCP: Version 3	35	1006
NETBIOS	Protocol standard for a NetBIOS service on a TCP/UDP transport: Detailed specifications	19	1002
NETBIOS	Protocol standard for a NetBIOS service on a TCP/UDP transport: Concepts and methods	19	1001
FTP	File Transfer Protocol	9	959
--------	Internet Standard Subnetting Procedure	5	950
---------	Broadcasting Internet datagrams in the presence of subnets	5	922
---------	Broadcasting Internet Datagrams	5	919
IP-WB	Host Access Protocol specification	40	907
RARP	Reverse Address Resolution Protocol	38	903
IP-EE	Standard for the transmission of IP datagrams over experimental Ethernet networks	42	895
IP-E	Standard for the transmission of IP datagrams over Ethernet networks	41	894
IP-DC	DCN local-network protocols	44	891
TIME	Time Protocol	26	868
DAYTIME	Daytime Protocol	25	867
USERS	Active users	24	866
QUOTE	Quote of the Day Protocol	23	865
CHARGEN	Character Generator Protocol	22	864
DISCARD	Discard Protocol	21	863
ECHO	Echo Protocol	20	862
TOPT-EXTOP	Telnet Extended Options: List Option	32	861
TOPT-TIM	Telnet Timing Mark Option	31	860
TOPT-STAT	Telnet Status Option	30	859
TOPT-SUPP	Telnet Suppress Go Ahead Option	29	858
TOPT-ECHO	Telnet Echo Option	28	857
TOPT-BIN	Telnet Binary Transmission	27	856

TELNET	Telnet Option Specifications	8	855
TELNET	Telnet Protocol Specification	8	854
ARP	Ethernet Address Resolution Protocol: Or converting network protocol addresses to 48.bit Ethernet address for transmission on Ethernet hardware	37	826
MAIL	Standard for the format of ARPA Internet text messages	11	822
SMTP	Simple Mail Transfer Protocol	10	821
TCP	Transmission Control Protocol	7	793
ICMP	Internet Control Message Protocol	5	792
IP	Internet Protocol	5	791
UDP	User Datagram Protocol	6	768

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

3.3. Draft Standard Protocols

Mnemonic	Title	RFC#
--------	Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals	3593*
--------	Definitions of Managed Objects for the Synchronous Optical Network/Synchronous Digital Hierarchy (SONET/SDH) Interface Type	3592*
RTP	RTP: A Transport Protocol for Real-Time Applications	3550*
DSN	An Extensible Message Format for Delivery Status Notifications	3464*
EMS-CODE	Enhanced Mail System Status Codes	3463*
MIME-RPT	The Multipart/Report Content Type for the Reporting of Mail System Administrative Messages	3462*
SMTP-DSN	Simple Mail Transfer Protocol (SMTP) Service Extension for Delivery Status Notifications (DSNs)	3461*
--------	Capabilities Advertisement with BGP-4	3392*
--------	Content Language Headers	3282
--------	(Extensible Markup Language) XML-Signature Syntax and Processing	3275
MINFAX-IM	Minimal FAX address format in Internet Mail	3192
MIN-PSTN	Minimal GSTN address format in Internet Mail	3191
RMON-MIB	Remote Network Monitoring MIB Protocol Identifier Reference	2895*
RADIUS	Remote Authentication Dial In User Service (RADIUS)	2865
INTERGRMIB	The Interfaces Group MIB	2863
--------	Host Resources MIB	2790
SNMP	Definitions of Managed Objects for Extensible SNMP Agents	2742
--------	Agent Extensibility (AgentX) Protocol Version 1	2741
--------	HTTP Authentication: Basic and Digest Access Authentication	2617
HTTP	Hypertext Transfer Protocol -- HTTP/1.1	2616
ICMPv6	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	2463
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): Generic Syntax	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
UTF-8	UTF-8, a transformation format of ISO 10646	2279
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 Five: Conformance Criteria and Examples	2049
MIME-MSG	MIME (Multipurpose Internet Mail Extensions) Part Three: Message Header Extensions for Non-ASCII Text	2047
MIME-MEDIA	Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types	2046
MIME	Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies	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
CON-MD5	The Content-MD5 Header Field	1864
OSPF-MIB	OSPF Version 2 Management Information Base	1850
XDR	XDR: External Data Representation Standard	1832
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
802.5-MIB	IEEE 802.5 MIB using SMIv2	1748
RIP2-MIB	RIP Version 2 MIB Extension	1724
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 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 Protocol	1542
DHCP-BOOTP	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
--------	Proposed Standard for the Transmission of IP Datagrams over FDDI Networks	1188
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.]

3.4. Proposed Standard Protocols

Mnemonic	Title	RFC#
--------	Definitions of Managed Objects for the Ethernet WAN Interface Sublayer	3637*
MAU-MIB	Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs)	3636*
--------	Definitions of Managed Objects for the Ethernet-like Interface Types	3635*
--------	Traffic Engineering (TE) Extensions to OSPF Version 2	3630*
--------	The AES-CBC Cipher Algorithm and Its Use with IPsec	3602*
--------	Text String Notation for Dial Sequences and Global Switched Telephone Network (GSTN) / E.164 Addresses	3601*
--------	Sieve Email Filtering -- Subaddress Extension	3598*
--------	Handling of Unknown DNS Resource Record (RR) Types	3597*
--------	Textual Conventions for IPv6 Flow Label	3595*
--------	PacketCable Security Ticket Control Sub-Option for the DHCP CableLabs Client Configuration (CCC) Option	3594*
--------	Definitions of Managed Objects for the Optical Interface Type	3591*
--------	Source Address Selection for the Multicast Listener Discovery (MLD) Protocol	3590*
--------	Diameter Base Protocol	3588*
--------	IP Security Policy (IPSP) Requirements	3586*
--------	IPsec Configuration Policy Information Model	3585*
--------	An Extension to the Session Initiation Protocol (SIP) for Symmetric Response Routing	3581*
--------	Mapping of Integrated Services Digital Network (ISDN) User Part (ISUP) Overlap Signalling to the Session Initiation Protocol (SIP)	3578*
--------	IANA Considerations for RADIUS (Remote Authentication Dial In User Service)	3575*
--------	Signalling of Modem-On-Hold status in Layer 2 Tunneling Protocol (L2TP)	3573*
--------	The AES-XCBC-MAC-96 Algorithm and Its Use With IPsec	3566*
--------	Use of the Advanced Encryption Standard (AES) Encryption Algorithm in Cryptographic Message Syntax (CMS)	3565*
--------	Use of the RSAES-OAEP Key Transport Algorithm in Cryptographic Message Syntax (CMS)	3560*
--------	Multicast Address Allocation MIB	3559*
--------	RTP Payload Format for Enhanced Variable Rate Codecs (EVRC) and Selectable Mode Vocoders (SMV)	3558*
--------	RTP Payload Format for European Telecommunications Standards Institute (ETSI) European Standard ES 201 108 Distributed Speech Recognition Encoding	3557*

--------	Session Description Protocol (SDP) Bandwidth Modifiers for RTP Control Protocol (RTCP) Bandwidth	3556*
--------	MIME Type Registration of RTP Payload Formats	3555*
--------	On the Use of Stream Control Transmission Protocol (SCTP) with IPsec	3554*
RTP-AV	RTP Profile for Audio and Video Conferences with Minimal Control	3551*
--------	The Group Domain of Interpretation	3547*
--------	Transport Layer Security (TLS) Extensions	3546*
--------	Enhanced Compressed RTP (CRTP) for Links with High Delay, Packet Loss and Reordering	3545*
IPCOM-PPP	IP Header Compression over PPP	3544*
--------	Registration Revocation in Mobile IPv4	3543*
--------	Authentication, Authorization and Accounting (AAA) Transport Profile	3539*
--------	Wrapping a Hashed Message Authentication Code (HMAC) key with a Triple-Data Encryption Standard (DES) Key or an Advanced Encryption Standard (AES) Key	3537*
--------	The application/ogg Media Type	3534*
NFSv4	Network File System (NFS) version 4 Protocol	3530*
--------	Link Selection sub-option for the Relay Agent Information Option for DHCPv4	3527*
--------	More Modular Exponential (MODP) Diffie-Hellman groups for Internet Key Exchange (IKE)	3526*
MEGACO	Gateway Control Protocol Version 1	3525*
--------	Mapping of Media Streams to Resource Reservation Flows	3524*
--------	Session Authorization Policy Element	3520*
PPP-BCP	Point-to-Point Protocol (PPP) Bridging Control Protocol (BCP)	3518*
--------	A Conservative Selective Acknowledgment (SACK)-based Loss Recovery Algorithm for TCP	3517*
--------	IMAP4 Binary Content Extension	3516*
--------	The Session Initiation Protocol (SIP) Refer Method	3515*
--------	Internet Protocol Version 6 (IPv6) Addressing Architecture	3513*
IPP-E-T	Internet Printing Protocol/1.1: IPP URL Scheme	3510*
--------	Message Disposition Notification (MDN) profile for Internet Message Access Protocol (IMAP)	3503*
--------	Internet Message Access Protocol (IMAP) - MULTIAPPEND Extension	3502*
IMAPv4	INTERNET MESSAGE ACCESS PROTOCOL - VERSION 4rev1	3501*
--------	Definitions of Managed Objects for Synchronous Optical Network (SONET) Linear Automatic Protection Switching (APS) Architectures	3498*
--------	RTP Payload Format for Society of Motion Picture and Television Engineers (SMPTE) 292M Video	3497*

--------	Dynamic Host Configuration Protocol (DHCP) Option for CableLabs Client Configuration	3495*
--------	Punycode: A Bootstring encoding of Unicode for Internationalized Domain Names in Applications (IDNA)	3492*
--------	Nameprep: A Stringprep Profile for Internationalized Domain Names (IDN)	3491*
--------	Internationalizing Domain Names in Applications (IDNA)	3490*
--------	STUN - Simple Traversal of User Datagram Protocol (UDP) Through Network Address Translators (NATs)	3489*
--------	Compressing the Session Initiation Protocol (SIP)	3486*
--------	The Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Static Dictionary for Signaling Compression (SigComp)	3485*
--------	Default Address Selection for Internet Protocol version 6 (IPv6)	3484*
--------	Signalling Unnumbered Links in CR-LDP (Constraint-Routing Label Distribution Protocol)	3480*
--------	Fault Tolerance for the Label Distribution Protocol (LDP)	3479*
--------	Graceful Restart Mechanism for Label Distribution Protocol	3478*
--------	Signalling Unnumbered Links in Resource ReSerVation Protocol - Traffic Engineering (RSVP-TE)	3477*
--------	Generalized Multi-Protocol Label Switching (GMPLS) Signaling Resource ReserVation Protocol-Traffic Engineering (RSVP-TE) Extensions	3473*
--------	Generalized Multi-Protocol Label Switching (GMPLS) Signaling Constraint-based Routed Label Distribution Protocol (CR-LDP) Extensions	3472*
--------	Generalized Multi-Protocol Label Switching (GMPLS) Signaling Functional Description	3471*
CIM	Policy Core Information Model (PCIM) Extensions	3460*
--------	Critical Content Multi-purpose Internet Mail Extensions (MIME) Parameter	3459*
--------	Message Context for Internet Mail	3458*
--------	Dynamic Host Configuration Protocol (DHCPv4) Configuration of IPsec Tunnel Mode	3456*
--------	Preparation of Internationalized Strings ("stringprep")	3454*
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--------	The Internet Standards Process -- Revision 3	9	2026
--------	IRTF Research Group Guidelines and Procedures	8	2014
--------	Implications of Various Address Allocation Policies for Internet Routing	7	2008
--------	Guidelines for creation, selection, and registration of an Autonomous System (AS)	6	1930
--------	Address Allocation for Private Internets	5	1918
--------	An Appeal to the Internet Community to Return Unused IP Networks (Prefixes) to the IANA	4	1917
--------	Variance for The PPP Compression Control Protocol and The PPP Encryption Control Protocol	3	1915
--------	Addendum to RFC 1602 -- Variance Procedure	2	1871
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3.7. Experimental Protocols

Mnemonic	Title	RFC#
--------	Ad hoc On-Demand Distance Vector (AODV) Routing	3561*
--------	Robust Explicit Congestion Notification (ECN) Signaling with Nonces	3540*
--------	Using Extensible Markup Language-Remote Procedure Calling (XML-RPC) in Blocks Extensible Exchange Protocol (BEEP)	3529*
--------	Mesh-enhanced Service Location Protocol (mSLP)	3528*
--------	The Eifel Detection Algorithm for TCP	3522*
--------	TCP Congestion Control with Appropriate Byte Counting (ABC)	3465*
--------	Forward Error Correction (FEC) Building Block	3452*
--------	Layered Coding Transport (LCT) Building Block	3451*
--------	Simple Network Management Protocol Over Transmission Control Protocol Transport Mapping	3430*
--------	Select and Sort Extensions for the Service Location Protocol (SLP)	3421*
--------	The Application Exchange (APEX) Presence Service	3343*
--------	Dual Stack Hosts Using "Bump-in-the-API" (BIA)	3338
--------	Policy-Based Accounting	3334
--------	PGM Reliable Transport Protocol Specification	3208
--------	Domain Security Services using S/MIME	3183
SMX	Script MIB Extensibility Protocol Version 1.1	3179
--------	ISO/IEC 9798-3 Authentication SASL Mechanism	3163
--------	Electronic Signature Policies	3125
--------	A DNS RR Type for Lists of Address Prefixes (APL RR)	3123
--------	Finding an RSIP Server with SLP	3105
--------	RSIP Support for End-to-end IPsec	3104
--------	Realm Specific IP: Protocol Specification	3103
--------	Realm Specific IP: Framework	3102
--------	OpenLDAP Root Service An experimental LDAP referral service	3088
--------	Notification and Subscription for SLP	3082
--------	MPLS Loop Prevention Mechanism	3063
--------	Internet X.509 Public Key Infrastructure Data Validation and Certification Server Protocols	3029
--------	Unified Memory Space Protocol Specification	3018
SAP	Session Announcement Protocol	2974
--------	Protocol Independent Multicast MIB for IPv4	2934
MASC	The Multicast Address-Set Claim (MASC) Protocol	2909
--------	Generic AAA Architecture	2903
--------	DNS Extensions to Support IPv6 Address Aggregation and Renumbering	2874
--------	TCP Congestion Window Validation	2861
TSWTCM	A Time Sliding Window Three Colour Marker (TSWTCM)	2859

--------	OSPF over ATM and Proxy-PAR	2844
PPP-SDL	PPP over Simple Data Link (SDL) using SONET/SDH with ATM-like framing	2823
--------	Diffie-Helman USM Key Management Information Base and Textual Convention	2786
--------	An HTTP Extension Framework	2774
--------	Encryption using KEA and SKIPJACK	2773
--------	Sampling of the Group Membership in RTP	2762
--------	Definitions of Managed Objects for Service Level Agreements Performance Monitoring	2758
HTCP	Hyper Text Caching Protocol (HTCP/0.0)	2756
--------	RTFM: New Attributes for Traffic Flow Measurement	2724
--------	PPP EAP TLS Authentication Protocol	2716
--------	SPKI Certificate Theory	2693
--------	SPKI Requirements	2692
--------	QoS Routing Mechanisms and OSPF Extensions	2676
DNS	Binary Labels in the Domain Name System	2673
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--------	A Tagged Index Object for use in the Common Indexing Protocol	2654
--------	An LDAP Control and Schema for Holding Operation Signatures	2649
--------	The NewReno Modification to TCP's Fast Recovery Algorithm	2582
--------	Mapping between LPD and IPP Protocols	2569
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IPP-DG	Design Goals for an Internet Printing Protocol	2567
DNS-INFO	Detached Domain Name System (DNS) Information	2540
PHOTURIS-E	Photuris: Extended Schemes and Attributes	2523
PHOTURIS-S	Photuris: Session-Key Management Protocol	2522
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--------	IPv6 Testing Address Allocation	2471
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PIM-SM	Protocol Independent Multicast-Sparse Mode (PIM-SM): Protocol Specification	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 Sparse Mode PIM	2337
--------	The Safe Response Header Field	2310

LDAP-NIS	An Approach for Using LDAP as a Network Information Service	2307
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 -- Protocol Specification --	2189
--------	A Trivial Convention for using HTTP in URN Resolution	2169
MAP-MAIL	MaXIM-11 - Mapping between X.400 / Internet mail and Mail-11 mail	2162
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 Interface	2143
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
URAS	Uniform Resource Agents (URAs)	2016
GPS-AR	GPS-Based Addressing and Routing	2009
ETFTP	Experiments with a Simple File Transfer Protocol for Radio Links using Enhanced Trivial File Transfer Protocol (ETFTP)	1986
BGP-RR	BGP Route Reflection An alternative to full mesh IBGP	1966
SMKD	Scalable Multicast Key Distribution	1949
--------	OSI NSAPs and IPv6	1888
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--------	SMTP Service Extension for Checkpoint/Restart	1845
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--------	Communicating Presentation Information in Internet Messages: The Content-Disposition Header	1806
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--------	MHS use of the X.500 Directory to support MHS Routing	1801
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RWP	Remote Write Protocol - Version 1.0	1756
NARP	NBMA Address Resolution Protocol (NARP)	1735
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DASS	DASS - Distributed Authentication Security Service	1507
EHF-MAIL	Encoding Header Field for Internet Messages	1505
RAP	RAP: Internet Route Access Protocol	1476
TP-IX	TP/IX: The Next Internet	1475
--------	Routing Coordination for X.400 MHS Services Within a Multi Protocol / Multi Network Environment Table Format V3 for Static Routing	1465
--------	Using the Domain Name System To Store Arbitrary String Attributes	1464
IRCP	Internet Relay Chat Protocol	1459
SIFT	SIFT/UFT: Sender-Initiated/Unsolicited File Transfer	1440
DIR-ARP	Directed ARP	1433
TEL-SPX	Telnet Authentication: SPX	1412
TEL-KER	Telnet Authentication: Kerberos Version 4	1411
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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: Version 1	1241
CLNS-MIB	CLNS MIB for use with Connectionless Network Protocol (ISO 8473) and End System to Intermediate System (ISO 9542)	1238
CFDP	Coherent File Distribution Protocol	1235
IP-AX.25	Internet protocol encapsulation of AX.25 frames	1226
ALERTS	Techniques for managing asynchronously generated alerts	1224
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: Version 2	1176
NTP-OSI	Network Time Protocol (NTP) over the OSI Remote Operations Service	1165
DMF-MAIL	Digest message format	1153
RDP	Version 2 of the Reliable Data Protocol (RDP)	1151
--------	Standard for the transmission of IP datagrams on avian carriers	1149
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: Versatile Message Transaction Protocol	1045
COOKIE-JAR	Distributed-protocol authentication scheme	1004
NETBLT	NETBLT: A bulk data transfer protocol	998
IRTP	Internet Reliable Transaction Protocol functional and interface specification	938
LDP	Loader Debugger Protocol	909
RDP	Reliable Data Protocol	908

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4. Security Considerations

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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Acknowledgement

Funding for the RFC Editor function is currently provided by the Internet Society.