Network Working Group Request for Comments: 3300

Obsoletes: 3000

STD: 1

Category: Standards Track

Internet Engineering Task Force
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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 24, 2002. 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 24, 2002 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 - 3.6 of this memo contain the lists of protocols in each stage of standardization - Standard, Draft Standard, Proposed Standard, Experimental, Historic, 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 RFCs are not included. This memo lists the current standards track, Best Current Practice, Experimental, and Historic 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.

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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 [Reserved for Assigned Numbers. See RFC 1700 and	3003	1* 2
	RFC 3232.] Requirements for Internet Hosts - Communication Layers	1122	3
	Requirements for Internet Hosts - Application and Support	1123	3
IP	[Reserved for Router Requirements. See RFC 1812.] Internet Protocol	791	4 5
ICMP	Internet Control Message Protocol	792	5 5 5
	Broadcasting Internet Datagrams	919	5
	Broadcasting Internet datagrams in the presence of subnets	922	5
	Internet Standard Subnetting Procedure	950	5 5 6
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 CTTE	Simple Mail Transfer Protocol	821	10
SMTP-SIZE	SMTP Service Extension for Message Size Declaration		10
MAIL	Standard for the format of ARPA Internet textmessages	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
SNMP	Simple Network Management Protocol (SNMP)	1157	1 5
SMI	Structure and identification of management	1155	16
	information for TCP/IP-based internets		
	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	1001	19
HE I DIOS	a TCP/UDP transport: Concepts and methods	TOOT	± 5
NETBIOS	Protocol standard for a NetBIOS service on	1002	19
	a TCP/UDP transport: Detailed specifications		-5

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RFC 3300	Internet Standards No	vember	2002
ECHO DISCARD CHARGEN QUOTE USERS DAYTIME TIME TOPT-BIN TOPT-SUPP TOPT-STAT TOPT-TIM TOPT-EXTOP TFTP	Echo Protocol Discard Protocol Character Generator Protocol Quote of the Day Protocol Active users Daytime Protocol Time Protocol Telnet Binary Transmission Telnet Echo Option Telnet Suppress Go Ahead Option Telnet Status Option Telnet Timing Mark Option Telnet Extended Options: List Option The TFTP Protocol (Revision 2)	862 863 864 865 866 867 858 859 860 861 1350	
	<pre>[Was Routing Information Protocol (RIP). Replaced by STD 56.]</pre>		34
TP-TCP	ISO transport services on top of the TCP: Version 3	1006	35
IP-FDDI ARP	Transmission of IP and ARP over FDDI Networks Ethernet Address Resolution Protocol: Or convertin network protocol addresses to 48.bit Ethernet address for transmission on Ethernet hardware	1390 g 826	36 37
RARP IP-ARPA	Reverse Address Resolution Protocol [Was BBN Report 1822 (IMP/Host Interface). Now Historic.]	903	38 39
IP-WB IP-E	Host Access Protocol specification Standard for the transmission of IP datagrams over Ethernet networks	907 894	40 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 IP-HC	DCN local-network protocols Internet Protocol on Network System's HYPERchannel Protocol specification	891 : 1044	44 45
IP-ARC IP-SLIP	Transmitting IP traffic over ARCNET networks Nonstandard for transmission of IP datagrams	1201 1055	46 47
IP-NETBIOS	over serial lines: SLIP Standard for the transmission of IP datagrams	1088	48
IP-IPX	over NetBIOS networks 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 PPP-HDLC IP-SMDS POP3	The Point-to-Point Protocol (PPP) PPP in HDLC-like Framing Transmission of IP datagrams over the SMDS Service Post Office Protocol - Version 3	1661 1662 1209 1939	51 51 52 53

RFC 3300	Internet Standards	November	2002
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 Structure of Management Information Version 2 (SMIv2)	1722	57
SMIv2		2578	58
CONV-MIB CONF-MIB RMON-MIB	Textual Conventions for SMIv2 Conformance Statements for SMIv2 Remote Network Monitoring Management Information Base	2579 2580 1 2819	58 58 59
SMTP-Pipe	SMTP Service Extension for Command Pipelining A One-Time Password System	2920	60
ONE-PASS		2289	61

3.2. Standard Protocols Ordered by RFC

Mnemonic	Title	STD# RFC#
	Internet Official Protocol Standards	1* 3003*
SMTP-Pipe		60 2920
	SMTP Service Extension for Command Pipelining Remote Network Monitoring Management Information	59 2819
RMON-MIB	Base	39 2019
CONF-MIB	Conformance Statements for SMIv2	58 2580
CONV-MIB	Textual Conventions for SMIv2	58 2579
SMIv2	Structure of Management Information Version	58 2578
DIDO	2 (SMIv2)	FC 24F2
RIP2	RIP Version 2	56 2453
IP-FR	Multiprotocol Interconnect over Frame Relay	55 2427
0SPF2	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
ETHER-MIB	Definitions of Managed Objects for the Ethernet-	50 1643
LINER HIL	like Interface Types	30 1043
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
1120 22	of TCP/IP-based internets:MIB-II	1, 1113
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
SNMP	Simple Network Management Protocol (SNMP)	15 1157
SMI	Structure and identification of management	16 1155
J	information for TCP/IP-based internets	
IP-IPX	Standard for the transmission of 802.2 packets	49 1132
1. 1.X	over IPX networks	13 1132
	Requirements for Internet Hosts - Application	3 1123
	and Support	
	Requirements for Internet Hosts - Communication	3 1122
	Layers	
IGMP	Host extensions for IP multicasting	5 1112
IP-NETBIOS	Standard for the transmission of IP datagrams	48 1088
	over NetBIOS networks	
IP-SLIP	Nonstandard for transmission of IP datagrams	47 1055
	over serial lines: SLIP	.,
IP-HC	Internet Protocol on Network System's HYPERchannel:	45 1044
	Protocol specification	15 4077
IP-IEEE	Standard for the transmission of IP datagrams	43 1042
11 -1FFF	over IEEE 802 networks	73 1072
	OVEL TELE OUT HETMOLKS	

RFC 3300	Internet Standards	November	2002
DOMAIN DOMAIN TP-TCP	Domain names - implementation and specification Domain names - concepts and facilities ISO transport services on top of the TCP: Version 3	13	1035 1034 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	42	895
IP-E	over experimental Ethernet networks 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
	Telnet Extended Options: List Option	32	861
TOPT-TIM		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_RTN	Telnet Binary Transmission	27	856
TELNET	Telnet Option Specifications	8	855
TELNET TELNET	Telnet Protocol Specification	8	854
ARP	Ethernet Address Resolution Protocol: Or convertine network protocol addresses to 48.bit Ethernet	ing 37	826
	address for transmission on Ethernet hardware		
MATI	Standard for the format of ADDA Internet toxt	11	022

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

Standard for the format of ARPA Internet text

messages

Internet Protocol

User Datagram Protocol

Simple Mail Transfer Protocol Transmission Control Protocol

Internet Control Message Protocol

MAIL

SMTP

TCP ICMP

ΙP

UDP

11 822

821

793

792

791

768

10

7 5

5

6

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3.3. Draft Standard Protocols

Mnemonic	Title	RFC#
	Content Language Headers (Extensible Markup Language) XML-Signature Syntax and Processing	3282* 3275*
MINFAX-IM MIN-PSTN RADIUS	Minimal FAX address format in Internet Mail Minimal GSTN address format in Internet Mail Remote Authentication Dial In User Service (RADIUS)	3192* 3191* 2865
	The Interfaces Group MIB Host Resources MIB	2863 2790
SNMP	Definitions of Managed Objects for Extensible SNMP Agents	2742*
	Agent Extensibility (AgentX) Protocol Version 1 HTTP Authentication: Basic and Digest Access Authentication	2741* 2617
HTTP VACM-SNMP	Hypertext Transfer Protocol HTTP/1.1 View-based Access Control Model (VACM) for	2616 2575
USM-SNMPV3	the Simple Network Management Protocol (SNMP) User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3)	2574
SNMP-APP MPD-SNMP	SNMP Applications Message Processing and Dispatching for the	2573 2572
ARCH-SNMP	Simple Network Management Protocol (SNMP) An Architecture for Describing SNMP Management	2571
	Frameworks	
ICMPv6	Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification	2463
IPV6-AUTO	IPv6 Stateless Address Autoconfiguration	2462
IPV6-ND IPV6	Neighbor Discovery for IP Version 6 (IPv6) Internet Protocol, Version 6 (IPv6) Specification	2461 2460
URI-GEN	Uniform Resource Identifiers (URI): Generic Syntax	2396
IARP	Inverse Address Resolution Protocol	2390
TN3270E	TN3270 Enhancements	2355
TFTP-Opt TFTP-Blk	TFTP Placksize Options	2349 2348
TFTP-Ext	TFTP Blocksize Option TFTP Option Extension	2346
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
SNMPv2-MIB	of the Simple Network Management Protocol (SNMPv2)	1907
TRANS-MIB	Transport Mappings for Version 2 of the Simple Network Management Protocol (SNMPv2)	1906
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
XDR	XDR: External Data Representation Standard	1832
	The String Representation of Standard Attribute Syntaxes	1778
	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
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-	1660
	printer-like Hardware Devices using SMIv2	4650
	Definitions of Managed Objects for RS-232-	1659
	like Hardware Devices using SMIv2 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		1629
	An Echo Function for CLNP (ISO 8473)	1575
	DECnet Phase IV MIB Extensions	1559
	Clarifications and Extensions for the Bootstrap Protocol	1542
DHCP-BOOTP	Interoperation Between DHCP and BOOTP	1534
	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 MTŬ discovery	1191
	Proposed Standard for the Transmission of IP Datagrams over FDDI Networks	1188
TOPT-LINE	Telnet Linemode Option	1184
NICNAME	NICNAME/WHOIS .	954
B00TP	Bootstrap Protocol	951

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3.4. Proposed Standard Protocols

Mnemonic	Title	RFC#
	Session Description Protocol (SDP) Simple Capability Declaration	3407*
NAPTR	Dynamic Delegation Discovery System (DDDS) Part Four: The Uniform Resource Identifiers (URI)	3404*
NAPTR	Dynamic Delegation Discovery System (DDDS) Part Three: The Domain Name System (DNS) Database	3403*
NAPTR	Dynamic Delegation Discovery System (DDDS) Part Two: The Algorithm	3402*
RMON-MIB	Remote Network Monitoring MIB Protocol Identifier Reference Extensions	3395*
	Real-time Transport Protocol (RTP) Payload for Comfort Noise (CN)	3389*
IPP-E-T	Internet Printing Protocol (IPP): The 'collection' attribute syntax	3382*
IPP-E-T	Internet Printing Protocol (IPP): Job Progress Attributes	3381*
IPP-E-T	Internet Printing Protocol (IPP): Job and Printer Set Operations	3380*
	Delegated Path Validation and Delegated Path Discovery Protocol Requirements Lightweight Directory Access Protocol (v3): Technical	3379* 3377*
IGMP	Specification Internet Group Management Protocol, Version 3	3376*
	Layer Two Tunneling Protocol "L2TP" Management Information Base	3371*
	Cryptographic Message Syntax (CMS) Algorithms Cryptographic Message Syntax (CMS)	3370* 3369*
	The 'go' URI Scheme for the Common Name Resolution Protocol	3368*
	Common Name Resolution Protocol (CNRP) Real-time Facsimile (T.38) - image/t38 MIME Sub-	3367* 3362*
	type Registration Dynamic Host Configuration Protocol (DHCP-for-IPv4)	3361*
	Option for Session Initiation Protocol (SIP) Servers Layer Two Tunnelling Protocol (L2TP) Over ATM Adaptation Layer 5 (AAL5)	3355*
	Small Computer Systems Interface protocol over the Internet (iSCSI) Requirements and Design Considerations	3347*
MOBILEIPSU	IP Mobility Support for IPv4 The Application Exchange (APEX) Option Party Pack, Part Deux!	3344* 3342*
	The Application Exchange (APEX) Access Service The Application Exchange Core	3341* 3340*

	Date and Time on the Internet: Timestamps	3339*
	MIME-based Secure Peer-to-Peer Business Data	3335*
	Interchange over the Internet	
	Signaling System 7 (SS7) Message Transfer Part	3332*
	3 (MTP3) - User Adaptation Layer (M3UA)	2224
	Signaling System 7 (SS7) Message Transfer Part	3331*
	2 (MTP2) - User Adaptation Layer Integration of Resource Management and Session	3312*
	Initiation Protocol (SIP)	2212.
	The Session Initiation Protocol (SIP) UPDATE Method	3311*
	Stream Control Transmission Protocol (SCTP) Checksum	3309*
	Change	
	Allocation Guidelines for IPv6 Multicast Addresses	3307*
 TTCC	Unicast-Prefix-based IPv6 Multicast Addresses	3306* 3302*
TIFF	Tag Image File Format (TIFF) - image/tiff MIME Sub-type Registration	3302^
	Layer Two Tunnelling Protocol (L2TP): ATM access	3301*
	network extensions	550-
	Content Negotiation for Messaging Services based	3297*
	on Email	22061
	Named Subordinate References in Lightweight Directory Access Protocol (LDAP) Directories	3296*
	Definitions of Managed Objects for the General	3295*
	Switch Management Protocol (GSMP)	3233
	General Switch Management Protocol (GSMP) Packet	3293*
	Encapsulations for Asynchronous Transfer Mode	
	(ATM), Ethernet and Transmission Control Protocol	
	(TCP) General Switch Management Protocol (GSMP) V3	3292*
	Textual Conventions for Internet Network Addresses	3292 [^]
	Management Information Base for the Differentiated	3289*
	Services Architecture	
	Using the Simple Object Access Protocol (SOAP)	3288*
	in Blocks Extensible Exchange Protocol (BEEP)	2227
	Remote Monitoring MIB Extensions for Differentiated	3287*
	Services The VCDIFF Generic Differencing and Compression	3284*
	Data Format	J204**
	An Internet Attribute Certificate Profile for	3281*
	Authorization	
	Internet X.509 Public Key Infrastructure Certificate	3280*
	and Certificate Revocation List (CRL) Profile	22704
	Algorithms and Identifiers for the Internet X.509 Public Key Infrastructure Certificate and	3279*
	Certificate Revocation List (CRL) Profile	

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	Definitions of Managed Objects for High Bit-Rate DSL - 2nd generation (HDSL2) and Single-Pair High-Speed Digital Subscriber Line (SHDSL) Lines Processing	3276*
	Compressed Data Content Type for Cryptographic Message Syntax (CMS)	3274*
	Remote Network Monitoring Management Information Base for High Capacity Networks	3273*
	Multi-Protocol Label Switching (MPLS) Support of Differentiated Services	3270*
	Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS)	3268*
	Real-Time Transport Protocol (RTP) Payload Format and File Storage Format for the Adaptive Multi- Rate (AMR) and Adaptive Multi-Rate Wideband (AMR-WB) Audio Codecs	3267*
	Support for IPv6 in Session Description Protocol (SDP)	3266*
SIP	Session Initiation Protocol (SIP)-Specific Event Notification	3265*
SIP	An Offer/Answer Model with Session Description Protocol (SDP)	3264*
SIP	Session Initiation Protocol (SIP): Locating SIP Servers	3263*
SIP	Reliability of Provisional Responses in Session Initiation Protocol (SIP)	3262*
SIP	SIP: Session Initiation Protocol	3261*
	The DOCSIS (Data-Over-Cable Service Interface	3256*
	Specifications) Device Class DHCP (Dynamic Host Configuration Protocol) Relay Agent Information Sub-option	
	Extending Point-to-Point Protocol (PPP) over Synchronous Optical NETwork/Synchronous Digital Hierarchy (SONET/SDH) with virtual concatenation, high order and low order payloads	3255*
	Versioning Extensions to WebDAV (Web Distributed Authoring and Versioning)	3253*
FFIF	Tag Image File Format Fax eXtended (TIFF-FX) - image/tiff-fx MIME Sub-type Registration	3250*
	An Expedited Forwarding PHB (Per-Hop Behavior)	3246*
	RObust Header Compression (ROHC): A Link-Layer Assisted Profile for IP/UDP/RTP	3242*
	Robust Header Compression (ROHC) over PPP	3241*
	Definitions of Managed Objects for Scheduling Management Operations	3231*
	Instance Digests in HTTP	3230*
	Delta encoding in HTTP	3229*

	DNSSEC and IPv6 A6 aware server/resolver message	3226*
	size requirements	
	Indicating Resolver Support of DNSSEC	3225*
SLP	Vendor Extensions for Service Location Protocol,	3224*
5	Version 2	J
	Telephony Routing over IP (TRIP)	3219*
	LSP Modification Using CR-LDP	3214*
	Constraint Deced LCD Cotum union LDD	_
	Constraint-Based LSP Setup using LDP	3212*
	RSVP-TE: Extensions to RSVP for LSP Tunnels	3209*
	SMTP Service Extension for Secure SMTP over Transport	3207*
	Layer Security	
	The SYS and AUTH POP Response Codes	3206*
	MIME media types for ISUP and QSIG Objects	3204*
	Definitions of Managed Objects for Frame Relay	3202*
	Convice Level Definitions	3202^
	Service Level Definitions	2204
	Definitions of Managed Objects for Circuit to	3201*
	Interface Translation	
	Reliable Delivery for syslog	3195*
	Securing L2TP using IPsec	3193*
	RTP Payload Format for 12-bit DAT Audio and 20-	3190*
	and 24-bit Linear Sampled Audio	3130
		2100+
	RTP Payload Format for DV (IEC 61834) Video	3189*
	Reuse of CMS Content Encryption Keys	3185
	Identity Representation for RSVP	3182*
	Signaled Preemption Priority Policy Element	3181*
	Aggregation of RSVP for IPv4 and IPv6 Reservations	3175
IPCOMP	IP Payload Compression Protocol (IPComp)	3173
	The Addition of Explicit Congestion Notification	3168
	(ECN) to IP	3100
		2465
	Definitions of Managed Objects for the Delegation	3165
	of Management Scripts	
	RADIUS and IPv6	3162
TSA	Internet X.509 Public Key Infrastructure Time-Stamp	3161
	Protocol (TSP)	
PIB	Structure of Policy Provisioning Information (SPPI)	3159
MIME-PGP	MIME Security with OpenPGP	3156
HITHE-I OI	DDD Multiploying	3153
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MOBILEIPMI	The Definitions of Managed Objects for IP Mobility Support using SMIv2	2006
MINI-IP IPENCAPIP BGP-COMM DNS-NOTIFY	Applicability Statement for IP Mobility Support Minimal Encapsulation within IP IP Encapsulation within IP BGP Communities Attribute A Mechanism for Prompt Notification of Zone Changes (DNS NOTIFY)	2005 2004 2003 1997 1996
DNS-IZT SMTP-ETRN	Incremental Zone Transfer in DNS SMTP Service Extension for Remote Message Queue Starting	1995 1985
PPP-CCP GSSAPI-SOC	Serial Number Arithmetic Path MTU Discovery for IP version 6 PPP in Frame Relay The PPP Encryption Control Protocol (ECP) The Kerberos Version 5 GSS-API Mechanism The PPP Compression Control Protocol (CCP) GSS-API Authentication Method for SOCKS Version 5 Username/Password Authentication for SOCKS V5 SOCKS Protocol Version 5 How to Interact with a Whois++ Mesh Architecture of the Whois++ Index Service An Extensible Message Format for Delivery Status Notifications Enhanced Mail System Status Codes The Multipart/Report Content Type for the Reporting of Mail System Administrative Messages SMTP Service Extension for Delivery Status	1982 1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894
RTP-AV	Notifications RTP Profile for Audio and Video Conferences with Minimal Control	1890
RTP DNS-IPV6 MIME-Sec	RTP: A Transport Protocol for Real-Time Applications DNS Extensions to support IP version 6 MIME Object Security Services	1889 1886 1848

MIME-Encyp	Security Multiparts for MIME: Multipart/Signed and Multipart/Encrypted	1847
WHOIS++	Architecture of the WHOIS++ service	1835
	Binding Protocols for ONC RPC Version 2	1833
RPC	RPC: Remote Procedure Call Protocol Specification Version 2	1831
	The ESP DES-CBC Transform	1829
	IP Authentication using Keyed MD5	1828
	Requirements for IP Version 4 Routers	1812
URL	Relative Uniform Resource Locators	1808
CLDAP	Connection-less Lightweight X.500 Directory Access Protocol	1798
OSPF-DC	Extending OSPF to Support Demand Circuits	1793
OSI-Dir	Using the OSI Directory to Achieve User Friendly Naming	1781
MIME-EDI	MIME Encapsulation of EDI Objects	1767
XNSCP	The PPP XNS IDP Control Protocol (XNSCP)	1764
BVCP	The PPP Banyan Vines Control Protocol (BVCP)	1763
Print-MIB	Printer MIB	1759
ATM	ATM Signaling Support for IP over ATM	1755
IPNG	The Recommendation for the IP Next Generation Protocol	1752
802.5-SSR	IEEE 802.5 Station Source Routing MIB using SMIv2	1749
SDLCSMIv2	Definitions of Managed Objects for SNA Data Link Control (SDLC) using SMIv2	1747
AT-MIB	AppleTalk Management Information Base II	1742
MacMIME	MIME Encapsulation of Macintosh Files - MacMIME	1740
URL	Uniform Resource Locators (URL)	1738
POP3-AUTH	POP3 AUTHentication command	1734
	IMAP4 Authentication Mechanisms	1731
RDBMS-MIB	Relational Database Management System (RDBMS) Management Information Base (MIB) using SMIv2	1697
MODEM-MIB	Modem Management Information Base (MIB) using SMIv2	1696
TMUX	Transport Multiplexing Protocol (TMux)	1692
SNANAU-MIB		1666
	SMIv2	
PPP-TRANS	PPP Reliable Transmission	1663 1648
UPS-MIB	Postmaster Convention for X.400 Operations	
PPP-ISDN	UPS Management Information Base PPP over ISDN	1628 1618
PPP-X25	PPP in X.25	1598
		1587
	Multicast Extensions to OSPF	1584
RIP-DC	Extensions to RIP to Support Demand Circuits	1582
	Telnet Environment Option	1572
PPP-LCP	PPP LCP Extensions	1570
CIPX	Compressing IPX Headers Over WAN Media (CIPX)	1553
IPXCP	The PPP Internetworking Packet Exchange Control	1552
-	Protocol (IPXCP)	
	-	

SRB-MIB	Definitions of Managed Objects for Source Routing Bridges	1525
CIDR-STRA	Classless Inter-Domain Routing (CIDR): an Address Assignment and Aggregation Strategy	1519
CIDR-ARCH CIDR	An Architecture for IP Address Allocation with CIDR Applicability Statement for the Implementation of Classless Inter-Domain Routing (CIDR)	1518 1517
	Definitions of Managed Objects for IEEE 802.3 Medium Attachment Units (MAUs)	1515
	Token Ring Extensions to the Remote Network Monitoring MIB	1513
FDDI-MIB KERBEROS HARPOON	FDDI Management Information Base The Kerberos Network Authentication Service (V5) X.400 Use of Extended Character Sets Rules for downgrading messages from X.400/88 to X.400/84 when MIME content-types are present in the messages	1512 1510 1502 1496
Equiv	Equivalences between 1988 X.400 and RFC-822 Message Bodies	1494
IDPR	Inter-Domain Policy Routing Protocol Specification: Version 1	1479
IDPR-ARCH PPP/Bridge	An Architecture for Inter-Domain Policy Routing The Definitions of Managed Objects for the Bridge Network Control Protocol of the Point-to-Point Protocol	1478 1474
PPP/IPMIB	The Definitions of Managed Objects for the IP Network Control Protocol of the Point-to-Point Protocol	1473
PPP/SECMIB	The Definitions of Managed Objects for the Security Protocols of the Point-to-Point Protocol	1472
PPP/LCPMIB	The Definitions of Managed Objects for the Link Control Protocol of the Point-to-Point Protocol	1471
IP-TR-MC X25-MIB	IP Multicast over Token-Ring Local Area Networks SNMP MIB extension for Multiprotocol Interconnect over X.25	1469 1461
SNMPv2	Introduction to version 2 of the Internet-standard Network Management Framework	1441
PEM-KEY	Privacy Enhancement for Internet Electronic Mail: Part IV	1424
PEM-ALG	Privacy Enhancement for Internet Electronic Mail: Part III	1423
PEM-CKM	Privacy Enhancement for Internet Electronic Mail: Part II	1422
PEM-ENC	Privacy Enhancement for Internet Electronic Mail: Part I	1421
SNMP-IPX SNMP-AT SNMP-OSI FTP	SNMP over IPX SNMP over AppleTalk	1420 1419 1418 1415

IDENT-MIB IDENT	Identification MIB Identification Protocol	1414 1413
	Default Route Advertisement In BGP2 and BGP3 Version	1397
SNMP-X.25 SNMP-LAPB PPP-ATCP PPP-OSINLC	of The Border Gateway Protocol SNMP MIB Extension for the X.25 Packet Layer SNMP MIB Extension for X.25 LAPB The PPP AppleTalk Control Protocol (ATCP) The PPP OSI Network Layer Control Protocol (OSINLCP)	1382 1381 1378 1377
TOPT-RFC	Telnet Remote Flow Control Option	1372
PPP-IPCP	Applicability Statement for OSPF The PPP Internet Protocol Control Protocol (IPCP)	1370 1332
	X.400 1988 to 1984 downgrading	1328
TCP-EXT	TCP Extensions for High Performance	1323
NETFAX	A File Format for the Exchange of Images in the	1314
	Internet	
FDDI-MIB	FDDI Management Information Base	1285
	Encoding Network Addresses to Support Operation	1277
	over Non-OSI Lower Layers Penlication and Distributed Operations extensions	1276
	Replication and Distributed Operations extensions to provide an Internet Directory using X.500	12/0
	The COSINE and Internet X.500 Schema	1274
BGP-MIB	Definitions of Managed Objects for the Border Gateway	1269
	Protocol: Version 3	
ICMP-ROUT	ICMP Router Discovery Messages	1256
STD-MIBs	Reassignment of experimental MIBs to standard MIBs	1239
IPX-IP	Tunneling IPX traffic through IP networks	1234
IS-IS	Use of OSI IS-IS for routing in TCP/IP and dual	1195
IP-CMPRS	environments Compressing TCP/IP headers for low-speed serial links	1144
TOPT-XDL	Telnet X display location option	1096
TOPT-TERM	Telnet terminal-type option	1091
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: DODIIS	1043
TODT 2270	implementation	1041
TOPT-3270 NNTP	Telnet 3270 regime option Network News Transfer Protocol	1041 977
TOPT-TLN	Telnet terminal location number option	946
TOPT-OM	Output marking Telnet option	933
	TACACS user identification Telnet option	927
TOPT-EOR	Telnet end of record option	885
TOPT-SNDL		779
TOPT-SUPO	Telnet SUPDUP-Output option	749
TOPT-SUP	Telnet SUPDUP option	736
TOPT-BYTE	Revised Telnet byte macro option	735

TOPT-LOGO TOPT-REM	Telnet logout option Remote Controlled Transmission and Echoing Telnet	727 726
TOPT-EXT	option Telnet extended ASCII option	698

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	An Appeal to the Internet Community to Return Unused IP Networks (Prefixes) to the IANA	1917	4
	Address Allocation for Private Internets	1918	5
	Guidelines for creation, selection, and	1930	
	registration of an Autonomous System (AS)		
	Implications of Various Address Allocation Policies for Internet Routing	2008	7
	IRTF Research Group Guidelines and Procedures	2014	. 8
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	The Internet Standards Process Revision 3	2026	_
	IAB and IESG Selection, Confirmation, and Recall Process: Operation of the Nominating and Recall Committees	2727	10
	The Organizations Involved in the IETF Standards Process	2028	11
	Internet Registry IP Allocation Guidelines	2050	12
	Multipurpose Internet Mail Extensions (MIME) Part	2048	
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	Key words for use in RFCs to Indicate Requirement Levels	2119	14
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	Selection and Operation of Secondary DNS Servers	2182	
	Use of DNS Aliases for Network Services	2219	
	IETF Policy on Character Sets and Languages	2277	
	IANA Charset Registration Procedures	2978	
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	Enhancing TCP Over Satellite Channels using Standard Mechanisms	2488	28
	Procedure for Defining New DHCP Options	2489	
	Anti-Spam Recommendations for SMTP MTAs	2505	
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	Guidelines for Writers of RTP Payload Format Specifications	2736	36
	IANA Allocation Guidelines For Values In the Internet Protocol and Related Headers	2780	37
	Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address Spoofing		
	Charter of the Internet Architecture Board (IAB)	2850	
	Root Name Server Operational Requirements	2870	
	Congestion Control Principles	2914	
	Domain Name System (DNS) IANA Considerations Procedures and IANA Guidelines for Definition of	2929 2939	
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	Use of HTTP State Management	2964	
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	Delegation of IP6.ARPA	3152	
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	IANA Guidelines for IPv4 Multicast Address Assignments	3171	51
	Management Guidelines & Operational Requirements for the Address and Routing Parameter Area Dom ("arpa")		
	GLOP Addressing in 233/8	3180	
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	IANA Considerations for IPv4 Internet GroupManagement_Protocol (IGMP)	3228	
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	Advice to link designers on link Automatic Repeat reQuest (ARQ)	3366	62
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	Session Initiation Protocol (SIP) for Telephones (SIP-T): Context and Architectures	63	3372
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	Congestion Control Principles	41	2914
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	Policies for Internet Routing	,	2000
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	Guidelines for creation, selection, and Registration of an Autonomous System (AS)	U	∓ 330

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3.7. Experimental Protocols

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SMX	Dual Stack Hosts Using "Bump-in-the-API" (BIA) Policy-Based Accounting PGM Reliable Transport Protocol Specification Domain Security Services using S/MIME Script MIB Extensibility Protocol Version 1.1 ISO/IEC 9798-3 Authentication SASL Mechanism Electronic Signature Policies A DNS RR Type for Lists of Address Prefixes (APL RR) Finding an RSIP Server with SLP RSIP Support for End-to-end IPsec Realm Specific IP: Protocol Specification Realm Specific IP: Framework OpenLDAP Root Service An experimental LDAP referral service	3338* 3334* 3208* 3183 3179 3163 3125 3105 3104 3103 3102 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) RTFM: New Attributes for Traffic Flow Measurement PPP EAP TLS Authentication Protocol SPKI Certificate Theory SPKI Requirements QoS Routing Mechanisms and OSPF Extensions Binary Labels in the Domain Name System	2756 2724 2716 2693 2692 2676 2673*

	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
	A Tagged Index Object for use in the Common Indexing	2654
	Protocol	_00.
	An LDAP Control and Schema for Holding Operation	2649
	Signatures 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	2568
	for the Internet Printing Protocol	
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: Session-Key Management Protocol	2522
ICMP-SEC	ICMP Security Failures Messages	2521
NHRP-MNHCS	NHRP with Mobile NHCs	2520
	URI Resolution Services Necessary for URN Resolution	2483
		2471
	IPv6 Testing Address Allocation	
MARS-SCSP	A Distributed MARS Service Using SCSP	2443
TCP-WIN	Increasing TCP's Initial Window	2414
PIM-SM	Protocol Independent Multicast-Sparse Mode (PIM-	2362
	SM): Protocol Specification	
	Domain Names and Company Name Retrieval	2345
RTP-MPEG	RTP Payload Format for Bundled MPEG	2343
	Intra-LIS IP multicast among routers over ATM	2337
	using 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
	Protocol Specification	2103
	A Trivial Convention for using HTTP in URN Resolution	2169
MAP-MAIL		2162
HAP-HAIL	MaXIM-11 - Mapping between X.400 / Internet mail	2102
MIME ODA	and Mail-11 mail	24.64
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	
	Managing the X.500 Root Naming Context	2120
GKMP-ARCH	Group Key Management Protocol (GKMP) Architecture	2094

CIMP CDEC	6 4 4 4 4 7 (6(415) 6 161 (1	2002
GKMP-SPEC		2093
TFTP-MULTI	TFTP Multicast Option	2090
IP-Echo	IP Echo Host Service	2075
	TELNET CHARSET Option	2066
URAS	Uniform Resource Agents (URAs)	2016
GPS-AR	GPS-Based Addressing and Routing	2009
ETFTP		1986
EIFIF	Experiments with a Simple File Transfer Protocol	1300
	for Radio Links using Enhanced Trivial File	
	Transfer Protocol (ETFTP)	
BGP-RR	BGP Route Reflection An alternative to full mesh IBGP	1966
SMKD	Scalable Multicast Key Distribution	1949
SNMPV2SM	User-based Security Model for SNMPv2	1910
SNMPV2AI	An Administrative Infrastructure for SNMPv2	1909
SNMPV2CB	Introduction to Community-based SNMPv2	1901
SINIT VZCD		
	OSI NSAPs and IPv6	1888
DNS-LOC	A Means for Expressing Location Information in	1876
	the Domain Name System	
SGML-MT		1874
	SGML Media Types	
CONT-MT	Message/External-Body Content-ID Access Type	1873
UNARP	ARP Extension - UNARP	1868
BGP-IDRP	A BGP/IDRP Route Server alternative to a full	1863
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	mesh routing	40-4
ESP3DES	The ESP Triple DES Transform	1851
	SMTP 521 Reply Code	1846
	SMTP Service Extension for Checkpoint/Restart	1845
ST2	Internet Street Protocol Version 2 (ST2) Protocol	1819
312	Internet Stream Protocol Version 2 (ST2) Protocol	TOTA
	Specification - Version ST2+	
	Communicating Presentation Information in Internet	1806
	Messages: The Content-Disposition Header	
		1004
	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/TPYMTR	TCP/IPX Connection Mib Specification	1792
ICI / II AIIID		
	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-ENCODE	DNS Encoding of Geographical Location	1712
TCP-POS	An Extension to TCP: Partial Order Service	1693
		1644
T/TCP	T/TCP TCP Extensions for Transactions Functional	T044
	Specification	
MIME-UNI	Using Unicode with MIME	1641
F00BAR	FTP Operation Over Big Address Records (FOOBAR)	1639
X500-CHART		1609
	Paragraph of The Annual of the Control of the Contr	
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	Remote Printing Technical Procedures 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	1465
	a Multi Protocol / Multi Network Environment Table Format V3 for Static Routing	
	Using the Domain Name System To Store Arbitrary	1464
	String Attributes	1404
IRCP	Internet Relay Chat Protocol	1459
SIFT	SIFT/UFT: Sender-Initiated/Unsolicited File Transfer	1440
DIR-ARP	Directed ARP	1433
TEL-SPX TEL-KER	Telnet Authentication: SPX Telnet Authentication: Kerberos Version 4	1412 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
TN ENCAD	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	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 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	1165
DMF-MAIL	Operations Service Digest message format	1153
RDP	Version 2 of the Reliable Data Protocol (RDP)	1151
	Standard for the transmission of IP datagrams	1149
	on avian carriers	
TCP-ACO	TCP alternate checksum options	1146
TD DVMDD	The Q Method of Implementing TELNET Option Negotiation	1143 1075
IP-DVMRP VMTP	Distance Vector Multicast Routing Protocol VMTP: Versatile Message Transaction Protocol	1075 1045
VIIII	viiii versattte nessage iransattton rivtotot	TOTO

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

3.8. Historic Protocols

Mnemonic	Title	RFC#
IP-MAC	IP Authentication using Keyed SHA1 with Interleaved Padding (IP-MAC)	2841
L2F IPV6-UNI HTML-INT HTML-TBL IPV6-Addr	Cisco Layer Two Forwarding (Protocol) "L2F" An IPv6 Provider-Based Unicast Address Format Internationalization of the Hypertext Markup Language A Proposed Extension to HTML: Client-Side Image Maps HTML Tables IP Version 6 Addressing Architecture Form-based File Upload in HTML	2341 2073 2070 1980 1942 1884 1867
HTML BGP4/IDRP 	Hypertext Markup Language - 2.0 BGP4/IDRP for IPOSPF Interaction Assigned Numbers Definitions of Managed Objects for the Ethernet- like Interface Types	1866 1745 1700* 1623
DNS-R-MIB DNS-S-MIB	DNS Resolver MIB Extensions DNS Server MIB Extensions Manager-to-Manager Management Information Base Party MIB for version 2 of the Simple Network Management Protocol (SNMPv2)	1612* 1611* 1451 1447
	Security Protocols for version 2 of the Simple Network Management Protocol (SNMPv2)	1446
	Administrative Model for version 2 of the Simple Network Management Protocol (SNMPv2)	1445
BGP-OSPF	Telnet Environment Option BGP OSPF Interaction Definitions of Managed Objects for Administration of SNMP Parties	1408 1403 1353
SNMP-SEC SNMP-ADMIN	SNMP Security Protocols SNMP Administrative Model Application of the Border Gateway Protocol in the Internet	1352 1351 1268
BGP3 OSI-UDP	Border Gateway Protocol 3 (BGP-3) OSI connectionless transport services on top of UDP: Version 1	1267 1240
802.4-MIP SNMP-MUX OIM-MIB-II IMAP3 CMOT	IEEE 802.4 Token Bus MIB	1230 1227 1214 1203 1189
BGP	the Internet Border Gateway Protocot (H) Border Gateway Protocot (H)	1163

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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: Part III - algorithms, modes, and identifiers	1115
	Privacy enhancement for Internet electronic mail: Part II - certificate-based key management	1114
	Privacy enhancement for Internet electronic mail: Part I - message encipherment and authentication	1113
IPSO	procedures U.S. Department of Defense Security Options for the Internet Protocol	1108
RIP	Routing Information Protocol	1058
	Standard for the transmission of IP datagrams	1051
	and ARP packets over ARCNET networks	1031
SUN-RPC	RPC: Remote Procedure Call Protocol specification	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	1009
STATSRV	Statistics server	996
HOSTNAME	Hostname Server	953
POP2	Post Office Protocol: Version 2	937
HFEP	Proposed Host-Front End Protocol	929
RATP		916
THINWIRE	Reliable Asynchronous Transfer Protocol (RATP)	914
IUTIMIKE	Thinwire protocol for connecting personal computers to the Internet	914
SFTP	Simple File Transfer Protocol	913
EGP	Exterior Gateway Protocol formal specification	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: A Common Editor for the ARPA Network 569
RJE Remote Job Entry Protocol 407

4. 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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