Network Working Group Request for Comments: 3300 Obsoletes: 3000

STD: 1

Category: Standards Track

Internet Engineering Task Force J. Reynolds R. Braden S. Ginoza A. De La Cruz Editors November 2002

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.

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.

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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	3003	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
SNMP	Simple Network Management Protocol (SNMP)	1157	15
SMI	Structure and identification of management information for TCP/IP-based internets	1155	16
Concise-MI	Concise MIB definitions	1212	16
MIB-II	Management Information Base for Network Management of TCP/IP-based internets:MIB-II	1213	17
	[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 a TCP/UDP transport: Detailed specifications	1002	19

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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	
TIME	Time Protocol	868	26
TOPT-BIN	Telnet Binary Transmission	856	27
TOPT-ECHO	Telnet Echo Option	857	
TOPT-SUPP	Telnet Suppress Go Ahead Option	858	29
TOPT-STAT	Telnet Status Option	859	
TOPT-TIM	Telnet Timing Mark Option	860	31
-	Telnet Extended Options: List Option	861	32
TFTP	The TFTP Protocol (Revision 2)	1350	33
	[Was Routing Information Protocol (RIP). Replaced	1330	34
	by STD 56.]		
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	826	37
	network protocol addresses to 48.bit Ethernet		
	address for transmission on Ethernet hardware		
RARP	Reverse Address Resolution Protocol	903	38
IP-ARPA	[Was BBN Report 1822 (IMP/Host Interface).		39
	Now Historic.]		
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	44
IP-HC	<pre>Internet Protocol on Network System's HYPERchannel:</pre>	1044	45
	Protocol specification		
IP-ARC	Transmitting IP traffic over ARCNET networks	1201	46
IP-SLIP	Nonstandard for transmission of IP datagrams	1055	47
	over serial lines: SLIP		
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 Service	1209	52
POP3	Post Office Protocol - Version 3	1939	53

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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	2578	58
	2 (SMIv2)		
CONV-MIB	Textual Conventions for SMIv2	2579	58
CONF-MIB	Conformance Statements for SMIv2	2580	58
RMON-MIB	Remote Network Monitoring Management Information	2819	59
	Base		
SMTP-Pipe	SMTP Service Extension for Command Pipelining	2920	60
ONE-PASS	A One-Time Password System	2289	61

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

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3.2. Standard Protocols Ordered by RFC

Mnemonic	Title	STD‡	# RFC#
	Internet Official Protocol Standards	1*	3003*
SMTP-Pipe	SMTP Service Extension for Command Pipelining		2920
RMON-MIB	Remote Network Monitoring Management Information		2819
141011 1112	Base	3,5	2017
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
ETHER-MIB	Definitions of Managed Objects for the Ethernet-	50	1643
	like Interface Types		
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
SNMP	Simple Network Management Protocol (SNMP)	15	1157
SMI	Structure and identification of management	16	1155
	information for TCP/IP-based internets		
IP-IPX	Standard for the transmission of 802.2 packets	49	1132
	over IPX networks		
	Requirements for Internet Hosts - Application	3	1123
	and Support	2	1100
	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		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		
IP-IEEE	Standard for the transmission of IP datagrams	43	1042
	over IEEE 802 networks	-	

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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:	35	1006
	Version 3		
NETBIOS	Protocol standard for a NetBIOS service on	19	1002
	a TCP/UDP transport: Detailed specifications		
NETBIOS	Protocol standard for a NetBIOS service on	19	1001
	a TCP/UDP transport: Concepts and methods		
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
	over experimental Ethernet networks		
IP-E	Standard for the transmission of IP datagrams	41	894
	over Ethernet networks		
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	37	826
	network protocol addresses to 48.bit Ethernet		
	address for transmission on Ethernet hardware		
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.]

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3.3. Draft Standard Protocols

Mnemonic	Title	RFC#
	Content Language Headers	3282*
	(Extensible Markup Language) XML-Signature	3275*
	Syntax and Processing	02.0
MINFAX-IM	Minimal FAX address format in Internet Mail	3192*
MIN-PSTN	Minimal GSTN address format in Internet Mail	3191*
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	2617
	Authentication	
HTTP	Hypertext Transfer Protocol HTTP/1.1	2616
VACM-SNMP	View-based Access Control Model (VACM) for	2575
	the Simple Network Management Protocol (SNMP)	0554
USM-SNMPV3	User-based Security Model (USM) for version	2574
	3 of the Simple Network Management Protocol (SNMPv3)	0553
SNMP-APP	SNMP Applications	2573
MPD-SNMP	Message Processing and Dispatching for the	2572
ARCH-SNMP	Simple Network Management Protocol (SNMP) An Architecture for Describing SNMP Management	2571
ARCH-SNMP	Frameworks	23/I
ICMPv6	Internet Control Message Protocol (ICMPv6)	2463
	for the Internet Protocol Version 6 (IPv6)	
	Specification	
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	2115
	DTEs Using SMIv2	
IP-HIPPI	IP over HIPPI	2067
MIME-CONF	Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Examples	2049

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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	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
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- 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
	Interoperation Between DHCP and BOOTP	1534
BRIDGE-MIB	Definitions of Managed Objects for Bridges	1493

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RFC 3300	Internet Standards	November 2002
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	1188
	IP Datagrams over FDDI Networks	
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 $% \left(1\right) =\left(1\right) =\left(1\right)$ previous edition of this document.]

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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	<pre>Internet Printing Protocol (IPP): The 'collection' attribute syntax</pre>	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	3379*
	Lightweight Directory Access Protocol (v3): Technical Specification	3377*
IGMP	Internet Group Management Protocol, Version 3	3376*
	Layer Two Tunneling Protocol "L2TP" Management Information Base	3371*
	Cryptographic Message Syntax (CMS) Algorithms	3370*
	Cryptographic Message Syntax (CMS)	3369*
	The 'go' URI Scheme for the Common Name Resolution Protocol	3368*
	Common Name Resolution Protocol (CNRP)	3367*
	Real-time Facsimile (T.38) - image/t38 MIME Sub- type Registration	3362*
	Dynamic Host Configuration Protocol (DHCP-for-IPv4) Option for Session Initiation Protocol (SIP) Servers	3361*
	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	3344*
	The Application Exchange (APEX) Option Party Pack, Part Deux!	3342*
	The Application Exchange (APEX) Access Service	3341*
	The Application Exchange Core	3340*

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	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)	
	Signaling System 7 (SS7) Message Transfer Part	3331*
	2 (MTP2) - User Adaptation Layer	
	Integration of Resource Management and Session	3312*
	Initiation Protocol (SIP)	
	The Session Initiation Protocol (SIP) UPDATE Method	3311*
	Stream Control Transmission Protocol (SCTP) Checksum Change	3309*
	Allocation Guidelines for IPv6 Multicast Addresses	3307*
	Unicast-Prefix-based IPv6 Multicast Addresses	3306*
TIFF	Tag Image File Format (TIFF) - image/tiff MIME Sub-type Registration	3302*
	Layer Two Tunnelling Protocol (L2TP): ATM access network extensions	3301*
	Content Negotiation for Messaging Services based on Email	3297*
	Named Subordinate References in Lightweight Directory Access Protocol (LDAP) Directories	3296*
	Definitions of Managed Objects for the General	3295*
	Switch Management Protocol (GSMP)	
	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	3291*
	Management Information Base for the Differentiated Services Architecture	3289*
	Using the Simple Object Access Protocol (SOAP)	3288*
	in Blocks Extensible Exchange Protocol (BEEP)	
	Remote Monitoring MIB Extensions for Differentiated Services	3287*
	The VCDIFF Generic Differencing and Compression	3284*
	Data Format	3231
	An Internet Attribute Certificate Profile for	3281*
	Authorization	
	Internet X.509 Public Key Infrastructure Certificate	3280*
	and Certificate Revocation List (CRL) Profile	
	Algorithms and Identifiers for the Internet X.509	3279*
	Public Key Infrastructure Certificate and	
	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	3230
	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	2011↓
		3241* 3231*
	Definitions of Managed Objects for Scheduling	3∠3⊥^
	Management Operations Instance Digests in HTTP	2020+
		3230*
	Delta encoding in HTTP	3229*

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	DNSSEC and IPv6 A6 aware server/resolver message	3226*
	size requirements	
	Indicating Resolver Support of DNSSEC	3225*
SLP	Vendor Extensions for Service Location Protocol, Version 2	3224*
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MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP	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	1981 1973 1968 1964					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER 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)	1981 1973 1968 1964 1962					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER 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	1981 1973 1968 1964 1962 1961					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS	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	1981 1973 1968 1964 1962 1961 1929					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5	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	1981 1973 1968 1964 1962 1961 1929 1928					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M	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	1981 1973 1968 1964 1962 1961 1929 1928 1914					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN	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	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A	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	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE	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	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE MIME-RPT	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	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE	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	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE MIME-RPT	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 Notifications	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE MIME-RPT SMTP-DSN	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	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894 1893					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE MIME-RPT SMTP-DSN RTP-AV	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 Notifications RTP Profile for Audio and Video Conferences with Minimal Control	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894 1893 1892					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE MIME-RPT SMTP-DSN RTP-AV	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 Notifications RTP Profile for Audio and Video Conferences with Minimal Control RTP: A Transport Protocol for Real-Time Applications	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894 1893					
MTU-IPV6 PPP-FRAME PPP-ECP GSSAPI-KER PPP-CCP GSSAPI-SOC AUTH-SOCKS SOCKSV5 WHOIS++M WHOIS++A DSN EMS-CODE MIME-RPT SMTP-DSN RTP-AV	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 Notifications RTP Profile for Audio and Video Conferences with Minimal Control	1981 1973 1968 1964 1962 1961 1929 1928 1914 1913 1894 1893 1891 1890					

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

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	Dynamic Delegation Discovery System (DDDS) Part Five: URI.ARPA Assignment Procedures	65	3405
	Internet Assigned Numbers Authority (IANA) Considerations for the Lightweight Directory Access Protocol (LDAP)	64	3383
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	Advice to link designers on link Automatic Repeat reQuest (ARQ)	62	3366
	Strong Security Requirements for Internet Engineering Task Force Standard Protocols	61	3365
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	IANA Considerations for IPv4 Internet Group Management Protocol (IGMP)	57	3228
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	IANA Guidelines for IPv4 Multicast Address Assignments	51	3171
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Selection and Operation of Secondary DNS Servers	16	2182
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3.7. Experimental Protocols

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	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	3029
	Validation and Certification Server Protocols	
	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	2758
	Agreements Performance Monitoring	
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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	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
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	An LDAP Control and Schema for Holding Operation	2649
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	The NewReno Modification to TCP's Fast Recovery	2582
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IPP-RAT	Rationale for the Structure of the Model and Protocol	2568
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IPP-DG	Design Goals for an Internet Printing Protocol	2567
DNS-INFO	Detached Domain Name System (DNS) Information	2540
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	Photuris: Session-Key Management Protocol	2522
ICMP-SEC	ICMP Security Failures Messages	2521
	NHRP with Mobile NHCs	2520
	URI Resolution Services Necessary for URN Resolution	2483
	IPv6 Testing Address Allocation	2471
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
FIM SM	SM): Protocol Specification	2302
	Domain Names and Company Name Retrieval	2345
RTP-MPEG	RTP Payload Format for Bundled MPEG	2343
KIP-MPEG	Intra-LIS IP multicast among routers over ATM	2343
		2337
	using Sparse Mode PIM	2310
	The Safe Response Header Field	
LDAP-NIS	An Approach for Using LDAP as a Network Information	2307
TIMMD DITCA	Service	2296
HTTP-RVSA	HTTP Remote Variant Selection Algorithm RVSA/1.0	
TCN-HTTP	Transparent Content Negotiation in HTTP	2295
	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	0.1.60
	A Trivial Convention for using HTTP in URN Resolution	2169
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

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GKMP-SPEC	Group Key Management Protocol (GKMP) Specification	2093
	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	1986
	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
	OSI NSAPs and IPv6	1888
DNS-LOC	A Means for Expressing Location Information in	1876
	the Domain Name System	
SGML-MT	SGML Media Types	1874
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
	mesh routing	
ESP3DES	The ESP Triple DES Transform	1851
	SMTP 521 Reply Code	1846
	SMTP Service Extension for Checkpoint/Restart	1845
ST2	Internet Stream Protocol Version 2 (ST2) Protocol	1819
	Specification - Version ST2+	
	Communicating Presentation Information in Internet	1806
	Messages: The Content-Disposition Header	
	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/IPXMIB		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-ENCODE	DNS Encoding of Geographical Location	1712
TCP-POS	An Extension to TCP: Partial Order Service	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
X500-CHART	Charting Networks in the X.500 Directory	1609
X500-DIR	Representing IP Information in the X.500 Directory	1608

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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
	Remote Printing Technical Procedures	
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	1465
	a Multi Protocol / Multi Network Environment	
	Table Format V3 for Static Routing	
	Using the Domain Name System To Store Arbitrary	1464
	String Attributes	
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
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
	Version 1	
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: Version 2	1176
NTP-OSI	Network Time Protocol (NTP) over the OSI Remote	1165
	Operations Service	
DMF-MAIL	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
	The Q Method of Implementing TELNET Option Negotiation	1143
IP-DVMRP	Distance Vector Multicast Routing Protocol	1075
VMTP	VMTP: Versatile Message Transaction Protocol	1045

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COOKIE-JAR	Distributed-protocol authentication scheme	1004
NETBLT	NETBLT: A bulk data transfer protocol	998
IRTP	Internet Reliable Transaction Protocol functional	938
	and interface specification	
LDP	Loader Debugger Protocol	909
RDP	Reliable Data Protocol	908

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3.8. Historic Protocols

Mnemonic	Title	RFC#
IP-MAC	IP Authentication using Keyed SHA1 with Interleaved Padding (IP-MAC)	2841
L2F	Cisco Layer Two Forwarding (Protocol) "L2F"	2341
IPV6-UNI	An IPv6 Provider-Based Unicast Address Format	2073
HTML-INT	Internationalization of the Hypertext Markup Language	2070
	A Proposed Extension to HTML : Client-Side Image Maps	1980
HTML-TBL	HTML Tables	1942
IPV6-Addr	IP Version 6 Addressing Architecture	1884
	Form-based File Upload in HTML	1867
HTML	Hypertext Markup Language - 2.0	1866
BGP4/IDRP	BGP4/IDRP for IPOSPF Interaction	1745
	Assigned Numbers	1700*
	Definitions of Managed Objects for the Ethernet- like Interface Types	1623
DNS-R-MIB	DNS Resolver MIB Extensions	1612*
DNS-S-MIB	DNS Server MIB Extensions	1611*
	Manager-to-Manager Management Information Base	1451
	Party MIB for version 2 of the Simple Network Management Protocol (SNMPv2)	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
TOPT-ENVIR	Telnet Environment Option	1408
BGP-OSPF	BGP OSPF Interaction	1403
	Definitions of Managed Objects for Administration of SNMP Parties	1353
SNMP-SEC	SNMP Security Protocols	1352
SNMP-ADMIN	SNMP Administrative Model	1351
	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: Version 1	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: Management Information Base	1214
IMAP3	Interactive Mail Access Protocol: Version 3	1203
CMOT	Common Management Information Services and Protocols for the Internet (CMOT and CMIP)	1189
	Application of the Border Gateway Protocol in the Internet	1164
BGP	Border Gateway Protocol (BGP)	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 procedures	1113
IPSO	U.S. Department of Defense Security Options for the Internet Protocol	1108
RIP	Routing Information Protocol	1058
	Standard for the transmission of IP datagrams and ARP packets over ARCNET networks	1051
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	Reliable Asynchronous Transfer Protocol (RATP)	916
THINWIRE	Thinwire protocol for connecting personal computers	914
	to the Internet	
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

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NETED NETED: A Common Editor for the ARPA Network 569
RJE Remote Job Entry Protocol 407

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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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