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.

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

| Internet Official Protocol Standards 3003 1* 1* 1* 1* 1* 1* 1* 1 | Mnemonic | Title | RFC# | STD# |
|--|----------|---|------|------|
| Requirements for Internet Hosts - Communication Layers | | | 3003 | _ |
| Requirements for Internet Hosts - Application and Support | | Requirements for Internet Hosts - Communication | 1122 | 3 |
| Reserved for Router Requirements. See RFC 1812.] 4 | | Requirements for Internet Hosts - Application | 1123 | 3 |
| Internet Control Message Protocol 792 5 | | [Reserved for Router Requirements. See RFC 1812.] | 791 | |
| Broadcasting Internet Datagrams 919 5 | | | | |
| Broadcasting Internet datagrams in the presence of subnets | | | 919 | 5 |
| IGMP 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 822 11 messages [Reserved for Network Time Protocol (NTP). See RFC 1305.] DOMAIN Domain names - concepts and facilities 1034 13 DOMAIN Domain names - implementation and specification 1035 13 [Was Mail Routing and the Domain System. 14 Now Historic.] SNMP Simple Network Management Protocol (SNMP) 1157 15 SMI Structure and identification of management 1155 16 information for TCP/IP-based internets Concise-MI Concise MIB definitions 1212 16 MIB-II Management Information Base for Network Management 1213 17 of TCP/IP-based internets:MIB-II [Was Exterior Gateway Protocol (RFC 904). 18 Now Historic.] NETBIOS Protocol standard for a NetBIOS service on 1001 19 a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1002 19 | | Broadcasting Internet datagrams in the presence | 922 | 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 822 11 messages | | Internet Standard Subnetting Procedure | 950 | |
| 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 822 11 messages | IGMP | Host extensions for IP multicasting | 1112 | |
| 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 822 11 messages [Reserved for Network Time Protocol (NTP). See RFC 12 1305.] DOMAIN Domain names - concepts and facilities 1034 13 DOMAIN Domain names - implementation and specification 1035 13 [Was Mail Routing and the Domain System. 14 Now Historic.] SNMP Simple Network Management Protocol (SNMP) 1157 15 SMI Structure and identification of management 1155 16 information for TCP/IP-based internets Concise-MI Concise MIB definitions 1212 16 MIB-II Management Information Base for Network Management 1213 17 of TCP/IP-based internets:MIB-II [Was Exterior Gateway Protocol (RFC 904). 18 Now Historic.] NETBIOS Protocol standard for a NetBIOS service on 1001 19 a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1001 19 | UDP | | | - |
| 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 822 11 messages | TCP | | | |
| 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 822 11 messages | TELNET | | | - |
| 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 822 11 messages | | - | | |
| SMTP-SIZE SMTP Service Extension for Message Size Declaration 1870 10 MAIL Standard for the format of ARPA Internet text 822 11 messages | | | | |
| MAIL Standard for the format of ARPA Internet text messages | | | | |
| messages | | | | |
| DOMAIN Domain names - concepts and facilities 1034 13 DOMAIN Domain names - implementation and specification 1035 13 | MAIL | | 822 | 11 |
| DOMAIN Domain names - implementation and specification 1035 13 [Was Mail Routing and the Domain System. 14 | | | | 12 |
| [Was Mail Routing and the Domain System. 14 | DOMAIN | | 1034 | 13 |
| Now Historic.] SNMP Simple Network Management Protocol (SNMP) 1157 15 SMI Structure and identification of management 1155 16 | | | 1035 | |
| SMI Structure and identification of management information for TCP/IP-based internets Concise-MI Concise MIB definitions 1212 16 MIB-II Management Information Base for Network Management 1213 17 of TCP/IP-based internets:MIB-II [Was Exterior Gateway Protocol (RFC 904). 18 Now Historic.] NETBIOS Protocol standard for a NetBIOS service on 1001 19 a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1002 19 | | Now Historic.] | | 14 |
| information for TCP/IP-based internets Concise-MI Concise MIB definitions 1212 16 MIB-II Management Information Base for Network Management 1213 17 of TCP/IP-based internets:MIB-II [Was Exterior Gateway Protocol (RFC 904). 18 Now Historic.] NETBIOS Protocol standard for a NetBIOS service on 1001 19 a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1002 19 | SNMP | | | _ |
| MIB-II Management Information Base for Network Management 1213 17 of TCP/IP-based internets:MIB-II [Was Exterior Gateway Protocol (RFC 904). 18 Now Historic.] NETBIOS Protocol standard for a NetBIOS service on 1001 19 a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1002 19 | | information for TCP/IP-based internets | | |
| of TCP/IP-based internets:MIB-II [Was Exterior Gateway Protocol (RFC 904). 18 | | | | |
| Now Historic.] NETBIOS Protocol standard for a NetBIOS service on a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1002 19 | MIB-II | of TCP/IP-based internets:MIB-II | 1213 | |
| a TCP/UDP transport: Concepts and methods NETBIOS Protocol standard for a NetBIOS service on 1002 19 | | Now Historic.] | | 18 |
| | NETBIOS | | 1001 | 19 |
| a TCP/UDP transport: Detailed specifications | NETBIOS | Protocol standard for a NetBIOS service on a TCP/UDP transport: Detailed specifications | 1002 | 19 |

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Internet Standards

November 2002

RFC 3300

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| 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 | 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 | n 2819 | 59 |
| | Base | | |
| SMTP-Pipe | SMTP Service Extension for Command Pipelining | 2920 | 60 |
| ONE-PASS | A One-Time Password System | 2289 | 61 |

[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 |
| 101011 1112 | Base | 3, | 2017 |
| CONF-MIB | Conformance Statements for SMIv2 | 58 | 2580 |
| CONV-MIB | Textual Conventions for SMIv2 | | 2579 |
| SMIv2 | Structure of Management Information Version | | 2578 |
| 5111 7 2 | 2 (SMIv2) | 30 | 2370 |
| RIP2 | RIP Version 2 | 56 | 2453 |
| IP-FR | Multiprotocol Interconnect over Frame Relay | | 2427 |
| OSPF2 | OSPF Version 2 | | 2328 |
| ONE-PASS | A One-Time Password System | | 2289 |
| POP3 | Post Office Protocol - Version 3 | | 1939 |
| SMTP-SIZE | SMTP Service Extension for Message Size Declaration | | 1870 |
| RIP2-APP | RIP Version 2 Protocol Applicability Statement | | 1722 |
| PPP-HDLC | PPP in HDLC-like Framing | | 1662 |
| PPP-HDLC | The Point-to-Point Protocol (PPP) | | 1661 |
| | | | |
| ETHER-MIB | Definitions of Managed Objects for the Ethernet- like Interface Types | 50 | 1643 |
| 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 and Support | 3 | 1123 |
| | 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 | | |
| IP-IEEE | Standard for the transmission of IP datagrams | 43 | 1042 |
| | over IEEE 802 networks | | |
| | | | |

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| | | 1.0 | 1005 |
|------------|--|-----|------|
| DOMAIN | Domain names - implementation and specification | | 1035 |
| DOMAIN | Domain names - concepts and facilities | | 1034 |
| TP-TCP | ISO transport services on top of the TCP: | 35 | 1006 |
| NEEDTOG | Version 3 | 1.0 | 1000 |
| NETBIOS | Protocol standard for a NetBIOS service on | 19 | 1002 |
| NEEDTOG | a TCP/UDP transport: Detailed specifications | 1.0 | 1001 |
| NETBIOS | Protocol standard for a NetBIOS service on | 19 | 1001 |
| | a TCP/UDP transport: Concepts and methods | ^ | 0.50 |
| 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 | 11 | 822 |
| | messages | | |
| 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 (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 |
| INTERGRMIB | The Interfaces Group MIB | 2863 |
| SNMP | Host Resources MIB Definitions of Managed Objects for Extensible SNMP Agents | 2790 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 the Simple Network Management Protocol (SNMP) | 2616 2575 |
| USM-SNMPV3 | 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 |
| | Simple Network Management Protocol (SNMP) | |
| ARCH-SNMP | An Architecture for Describing SNMP Management Frameworks | 2571 |
| ICMPv6 | <pre>Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification</pre> | 2463 |
| 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-Blk | TFTP Timeout Interval and Transfer Size Options TFTP Blocksize Option | 2349 2348 |
| TFTP-Ext | TFTP Option Extension | 2347 |
| UTF-8 | UTF-8, a transformation format of ISO 10646 | 2279 |
| | 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 |

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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 |
| | Management Information Base for Version 2 | 1907 |
| 011111 12 1112 | of the Simple Network Management Protocol (SNMPv2) | 1007 |
| 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 | 1778 |
| | Syntaxes | |
| | Lightweight Directory Access Protocol | 1777 |
| BGP-4-APP | Application of the Border Gateway Protocol | 1772 |
| | in the Internet | |
| 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 | 1694 |
| | using SMIv2 | |
| | Definitions of Managed Objects for Parallel- | 1660 |
| | printer-like Hardware Devices using SMIv2 | |
| | Definitions of Managed Objects for RS-232- | 1659 |
| | like Hardware Devices using SMIv2 | |
| | Definitions of Managed Objects for Character | 1658 |
| | Stream Devices using SMIv2 | |
| BGP-4-MIB | Definitions of Managed Objects for the Fourth | 1657 |
| | Version of the Border Gateway Protocol (BGP-4) using SMIv2 | |
| | SMTP Service Extension for 8bit-MIMEtransport | 1652 |
| OSI-NSAP | Guidelines for OSI NSAP Allocation in the Internet | 1629 |
| ISO-TS-ECH | An Echo Function for CLNP (ISO 8473) | 1575 |
| DECNET-MIB | DECnet Phase IV MIB Extensions | 1559 |
| | Clarifications and Extensions for the Bootstrap | 1542 |
| | Protocol | |
| | Interoperation Between DHCP and BOOTP | 1534 |
| BRIDGE-MIB | Definitions of Managed Objects for Bridges | 1493 |
| | | |

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| 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 |

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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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3.4. 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* |
| | Specification | 3376* |
| IGMP | Internet Group Management Protocol, Version 3 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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Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile

| | 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* |
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| | the NFS Protocol's Use of RPCSEC_GSS and Kerberos V5 Routing Policy Specification Language (RPSL) RADIUS Authentication Server MIB RADIUS Authentication Client MIB PPP over SONET/SDH Remote Network Monitoring MIB Extensions for Switched Networks Version 1.0 DHCP Options for Service Location Protocol Service Templates and Service: Schemes Directory Server Monitoring MIB ILMI-Based Server Discovery for NHRP ILMI-Based Server Discovery for MARS ILMI-Based Server Discovery for ATMARP An Expedited Forwarding PHB Assured Forwarding PHB Group Use of Language Codes in LDAP Using TLS with IMAP, POP3 and ACAP Definitions of Managed Objects for WWW Services Transmission of IPv6 Packets over Frame Relay Networks | 2622 2619 2618 2615 2613 2610 2609 2605 2603 2602 2601 2598 2597 2596 2595 2594 |

| | Internet X.509 Public Key Infrastructure LDAPv2 Schema Internet X.509 Public Key Infrastructure Operational Protocols: FTP and HTTP | 2587 2585 |
|------------|---|--------------|
| | Definitions of Managed Objects for APPN/HPR in IP Networks | 2584 |
| TCP-CC | TCP Congestion Control | 2581 |
| SNMP | Coexistence between Version 1, Version 2, and Version 3 of the Internet-standard Network Management Framework | 2576 |
| APP-MIB | Application Management MIB | 2564 |
| | DHCP Option to Disable Stateless Auto-Configuration in IPv4 Clients | 2563 |
| TN2370E-RT | Definitions of Protocol and Managed Objects for TN3270E Response Time Collection Using SMIv2 (TN3270E-RT-MIB) | 2562 |
| | Base Definitions of Managed Objects for TN3270E Using SMIv2 | 2561 |
| PKIX | X.509 Internet Public Key Infrastructure Online Certificate Status Protocol - OCSP | 2560 |
| | Internet X.509 Public Key Infrastructure Operational Protocols - LDAPv2 | 2559 |
| | Definitions of Managed Objects for the SONET/SDH Interface Type | 2558 |
| MHTML | MIME Encapsulation of Aggregate Documents, such as HTML (MHTML) | 2557 |
| | SMTP Service Extension for Authentication | 2554 |
| | Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing | 2545 |
| DHK-DNS | Storage of Diffie-Hellman Keys in the Domain Name System (DNS) | 2539 |
| SC-DNS | Storing Certificates in the Domain Name System (DNS) | 2538 |
| | DSA KEYs and SIGs in the Domain Name System (DNS) | 2536 |
| DNS-SECEXT | Domain Name System Security Extensions | 2535 |
| | Media Features for Display, Print, and Fax | 2534 |
| | A Syntax for Describing Media Feature Sets | 2533 |
| | Extended Facsimile Using Internet Mail | 2532 |
| | Indicating Supported Media Features Using Extensions to DSN and MDN | 2530 |
| | Transmission of IPv6 over IPv4 Domains without Explicit Tunnels | 2529 |
| | Reserved IPv6 Subnet Anycast Addresses | 2526 |
| WEBDAV | HTTP Extensions for Distributed Authoring WEBDAV | 2518 |
| ATM-MIBMAN | Definitions of Managed Objects for ATM Management | 2515 |
| | Definitions of Textual Conventions and | 2514 |
| | OBJECT-IDENTITIES for ATM Management | |
| | Managed Objects for Controlling the Collection and Storage of Accounting Information for | 2513 |
| | Connection-Oriented Networks | |

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| | Accounting Information for ATM Networks | 2512 |
|------------|--|------|
| X.509-CRM | · · | 2512 |
| PKICMP | Internet X.509 Public Key Infrastructure Certificate | 2511 |
| TRICHI | Management Protocols | 2310 |
| IPCOM-PPP | | 2509 |
| | Compressing IP/UDP/RTP Headers for Low-Speed Serial | 2508 |
| | Links | 2500 |
| | IP Header Compression | 2507 |
| | Transmission of IPv6 Packets over ARCnet Networks | 2497 |
| DS3-E3-MT | B Definitions of Managed Object for the DS3/E3 Interface | 2496 |
| D03 L3 III | Type | 2170 |
| | Definitions of Managed Objects for the DS1, E1, | 2495 |
| | DS2 and E2 Interface Types | |
| | Definitions of Managed Objects for the DSO and | 2494 |
| | DSO Bundle Interface Type | |
| | Textual Conventions for MIB Modules Using Performance | 2493 |
| | History Based on 15 Minute Intervals | |
| IPv6ATMNE | T IPv6 over ATM Networks | 2492 |
| IPv6-NBMA | | 2491 |
| | networks | |
| NAI | The Network Access Identifier | 2486 |
| | DHCP Option for The Open Group's User Authentication | 2485 |
| | Protocol | |
| | PPP LCP Internationalization Configuration Option | 2484 |
| | Gateways and MIME Security Multiparts | 2480 |
| | The Simple and Protected GSS-API Negotiation Mechanism | 2478 |
| | Message Submission | 2476 |
| | Definition of the Differentiated Services Field | 2474 |
| | (DS Field) in the IPv4 and IPv6 Headers | |
| | Generic Packet Tunneling in IPv6 Specification | 2473 |
| IPv6-PPP | IP Version 6 over PPP | 2472 |
| | Transmission of IPv6 Packets over Token Ring Networks | 2470 |
| | Transmission of IPv6 Packets over FDDI Networks | 2467 |
| ICMPv6-MI | B Management Information Base for IP Version 6: ICMPv6 | 2466 |
| | Group | |
| | Management Information Base for IP Version 6: Textual | 2465 |
| | Conventions and General Group | |
| | Transmission of IPv6 Packets over Ethernet Networks | 2464 |
| EBN-MIB | Definitions of Managed Objects for Extended Border | 2457 |
| | Node | |
| | Definitions of Managed Objects for APPN TRAPS | 2456 |
| APPN-MIB | Definitions of Managed Objects for APPN | 2455 |
| | IP Version 6 Management Information Base for the | 2454 |
| | User Datagram Protocol | |
| | IP Version 6 Management Information Base for the | 2452 |
| | Transmission Control Protocol | |
| | The ESP CBC-Mode Cipher Algorithms | 2451 |
| POP3-EXT | POP3 Extension Mechanism | 2449 |
| | | |

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| IMIP | <pre>iCalendar Message-Based Interoperability Protocol (iMIP)</pre> | 2447 |
|------------|--|-------|
| ITIP | iCalendar Transport-Independent Interoperability Protocol (iTIP) Scheduling Events, BusyTime, To-dos and Journal Entries | 2446 |
| ICALENDAR | Internet Calendaring and Scheduling Core Object Specification (iCalendar) | 2445 |
| OTP-SASL | The One-Time-Password SASL Mechanism | 2444 |
| | OpenPGP Message Format | 2440 |
| | BGP Route Flap Damping | 2439 |
| | RTP Payload Format for JPEG-compressed Video | 2435 |
| | RTP Payload Format for BT.656 Video Encoding | 2431 |
| | RTP Payload Format for the 1998 Version of ITU- | 2429 |
| | T Rec. H.263 Video (H.263+) | 0.400 |
| | FTP Extensions for IPv6 and NATs | 2428 |
| | vCard MIME Directory Profile | 2426 |
| TXT-DIR | A MIME Content-Type for Directory Information | 2425 |
| CONT-DUR | Content Duration MIME Header Definition | 2424 |
| MIME-VPIM | VPIM Voice Message MIME Sub-type Registration | 2423 |
| MIME-ADPCM | Toll Quality Voice - 32 kbit/s ADPCM MIME Sub-type Registration | 2422 |
| MIME-VP2 | Voice Profile for Internet Mail - version 2 | 2421 |
| 3DESE | The PPP Triple-DES Encryption Protocol (3DESE) | 2420 |
| DESE-bis | The PPP DES Encryption Protocol, Version 2 (DESE-bis) | 2419 |
| | Definitions of Managed Objects for Multicast over UNI 3.0/3.1 based ATM Networks | 2417 |
| | The NULL Encryption Algorithm and Its Use With IPsec | 2410 |
| IKE | The Internet Key Exchange (IKE) | 2409 |
| ISAKMP | Internet Security Association and Key Management Protocol (ISAKMP) | 2408 |
| ISAKMPSEC | The Internet IP Security Domain of Interpretation for ISAKMP | 2407 |
| ESP | IP Encapsulating Security Payload (ESP) | 2406 |
| ESPDES-CBC | The ESP DES-CBC Cipher Algorithm With Explicit IV | 2405 |
| | The Use of HMAC-SHA-1-96 within ESP and AH | 2404 |
| | The Use of HMAC-MD5-96 within ESP and AH | 2403 |
| IP-AUTH | IP Authentication Header | 2402 |
| IPSEC | Security Architecture for the Internet Protocol | 2401 |
| DATA-URL | The "data" URL scheme | 2397 |
| CIDMID-URL | Content-ID and Message-ID Uniform Resource Locators | 2392 |
| | Feature negotiation mechanism for the File Transfer Protocol | 2389 |
| | Returning Values from Forms: multipart/form-data | 2388 |
| MIME-RELAT | The MIME Multipart/Related Content-type | 2387 |
| | Protection of BGP Sessions via the TCP MD5 Signature Option | 2385 |
| POP-URL | POP URL Scheme | 2384 |

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| | Interoperation of Controlled-Load Service and Guaranteed Service with ATM | 2381 |
|------------|---|------|
| | RSVP over ATM Implementation Requirements | 2380 |
| | An IPv6 Aggregatable Global Unicast Address Format | 2374 |
| | IP Version 6 Addressing Architecture | 2373 |
| TIPV3 | Transaction Internet Protocol Version 3.0 | 2371 |
| OSPF-LSA | The OSPF Opaque LSA Option | 2371 |
| OSPF-LSA | | 2369 |
| | The Use of URLs as Meta-Syntax for Core Mail List Commands and their Transport through Message | 2309 |
| | Header Fields | 0260 |
| URLMAILTO | The mailto URL scheme | 2368 |
| PPP-AAL | PPP Over AAL5 | 2364 |
| PPP-FUNI | PPP Over FUNI | 2363 |
| IMAP4UIDPL | IMAP4 UIDPLUS extension | 2359 |
| IMAP4NAME | IMAP4 Namespace | 2342 |
| VRRP | Virtual Router Redundancy Protocol | 2338 |
| NHRP-SCSP | A Distributed NHRP Service Using SCSP | 2335 |
| SCSP | Server Cache Synchronization Protocol (SCSP) | 2334 |
| | NHRP Protocol Applicability Statement | 2333 |
| NHRP | NBMA Next Hop Resolution Protocol (NHRP) | 2332 |
| UNI-SIG | ATM Signalling Support for IP over ATM - UNI | 2331 |
| 01.1 010 | Signalling 4.0 Update | 2001 |
| SDP | SDP: Session Description Protocol | 2327 |
| RTSP | Real Time Streaming Protocol (RTSP) | 2326 |
| IPOA-MIB | Definitions of Managed Objects for Classical IP | 2320 |
| IPOA-MIB | and ARP Over ATM Using SMIv2 (IPOA-MIB) | 2320 |
| DNS-NCACHE | Negative Caching of DNS Queries (DNS NCACHE) | 2308 |
| SMFAX-IM | A Simple Mode of Facsimile Using Internet Mail | 2305 |
| FFIF | File Format for Internet Fax | 2301 |
| EMF-MDN | An Extensible Message Format for Message Disposition Notifications | 2298 |
| OR-ADD | Representing the O/R Address hierarchy in the X.500 | 2294 |
| | Directory Information Tree | |
| SUBTABLE | Representing Tables and Subtrees in the X.500 Directory | 2293 |
| | Mobile-IPv4 Configuration Option for PPP IPCP | 2290 |
| SLM-APP | Definitions of System-Level Managed Objects for | 2287 |
| DIM ALL | Applications | 2207 |
| PPP-EAP | PPP Extensible Authentication Protocol (EAP) | 2284 |
| | Definitions of Managed Objects for IEEE 802.12 | 2266 |
| | Repeater Devices | |
| | A Summary of the X.500(96) User Schema for use | 2256 |
| | with LDAPv3 | |
| LDAP-URL | The LDAP URL Format | 2255 |
| STR-LDAP | The String Representation of LDAP Search Filters | 2254 |
| LDAP3-UTF8 | Lightweight Directory Access Protocol (v3): UTF- | 2253 |
| | 8 String Representation of Distinguished Names | |
| | | |

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| LDAP3-ATD | Lightweight Directory Access Protocol (v3): Attribute Syntax Definitions | 2252 |
|------------|--|------|
| LDAPV3 | Lightweight Directory Access Protocol (v3) | 2251 |
| RTP-MPEG | RTP Payload Format for MPEG1/MPEG2 Video | 2250 |
| | Using Domains in LDAP/X.500 Distinguished Names | 2247 |
| | The TLS Protocol Version 1.0 | 2246 |
| SASL-ANON | Anonymous SASL Mechanism | 2245 |
| ACAP | ACAP Application Configuration Access Protocol | 2244 |
| OTP-ER | OTP Extended Responses | 2243 |
| NETWAREIP | NetWare/IP Domain Name and Information | 2242 |
| DHCP-NDS | DHCP Options for Novell Directory Services | 2241 |
| HPR-MIB | Definitions of Managed Objects for HPR using SMIv2 | 2238 |
| ABNF | Augmented BNF for Syntax Specifications: ABNF | 2234 |
| DLUR-MIB | Definitions of Managed Objects for DLUR using SMIv2 | 2232 |
| MIME-EXT | MIME Parameter Value and Encoded Word Extensions: | 2231 |
| | Character Sets, Languages, and Continuations | |
| FTPSECEXT | FTP Security Extensions | 2228 |
| | Simple Hit-Metering and Usage-Limiting for HTTP | 2227 |
| | IP Broadcast over ATM Networks | 2226 |
| IP-ATM | Classical IP and ARP over ATM | 2225 |
| SASL | Simple Authentication and Security Layer (SASL) | 2222 |
| | IMAP4 Login Referrals | 2221 |
| | A Common Schema for the Internet White Pages Service | 2218 |
| | General Characterization Parameters for Integrated | 2215 |
| | Service Network Elements | |
| | Integrated Services Management Information Base | 2214 |
| | Guaranteed Service Extensions using SMIv2 | |
| | Integrated Services Management Information Base using SMIv2 | 2213 |
| GQOS | Specification of Guaranteed Quality of Service | 2212 |
| | Specification of the Controlled-Load Network Element Service | 2211 |
| RSVP-IS | The Use of RSVP with IETF Integrated Services | 2210 |
| RSVP-IPSEC | RSVP Extensions for IPSEC Data Flows | 2207 |
| RSVP-MIB | RSVP Management Information Base using SMIv2 | 2206 |
| RSVP | Resource ReSerVation Protocol (RSVP) Version | 2205 |
| | 1 Functional Specification | |
| RPCSEC-GSS | RPCSEC_GSS Protocol Specification | 2203 |
| RTP-RAD | RTP Payload for Redundant Audio Data | 2198 |
| IMAPPOPAU | IMAP/POP AUTHorize Extension for Simple | 2195 |
| | Challenge/Response | |
| IMAP4MAIL | IMAP4 Mailbox Referrals | 2193 |
| IMAP-URL | IMAP URL Scheme | 2192 |
| | RTP Payload Format for H.263 Video Streams | 2190 |
| | Communicating Presentation Information in Internet | 2183 |
| | Messages: The Content-Disposition Header Field | 0105 |
| DNS-CLAR | Clarifications to the DNS Specification | 2181 |
| IMAP4-IDLE | IMAP4 IDLE command | 2177 |

| SLP | Service Location Protocol Use of an X.500/LDAP directory to support MIXER | 2165 2164 |
|------------|--|--------------|
| DNS-MCGAM | address mapping Using the Internet DNS to Distribute MIXER Conformant Global Address Mapping (MCGAM) | 2163 |
| | Carrying PostScript in X.400 and MIME | 2160 |
| | A MIME Body Part for FAX | 2159 |
| | X.400 Image Body Parts | 2158 |
| | Mapping between X.400 and RFC-822/MIME Message Bodies | 2157 |
| MIXER | MIXER (Mime Internet X.400 Enhanced Relay): Mapping between X.400 and RFC 822/MIME | 2156 |
| MAIL-SERV | Mailbox Names for Common Services, Roles and Functions | 2142 |
| URN-SYNTAX | URN Syntax | 2141 |
| DNS-UPDATE | Dynamic Updates in the Domain Name System (DNS UPDATE) | 2136 |
| DC-MIB | Dial Control Management Information Base using SMIv2 | 2128 |
| ISDN-MIB | ISDN Management Information Base using SMIv2 | 2127 |
| ITOT | ISO Transport Service on top of TCP (ITOT) | 2126 |
| BAP-BACP | The PPP Bandwidth Allocation Protocol (BAP) / The | 2125 |
| | PPP Bandwidth Allocation Control Protocol (BACP) | |
| VEMMI-URL | VEMMI URL Specification | 2122 |
| ROUT-ALERT | IP Router Alert Option | 2113 |
| 802.3-MIB | Definitions of Managed Objects for IEEE 802.3 Repeater Devices using SMIv2 | 2108 |
| PPP-NBFCP | The PPP NetBIOS Frames Control Protocol (NBFCP) | 2097 |
| TABLE-MIB | IP Forwarding Table MIB | 2096 |
| RIP-TRIG | Triggered Extensions to RIP to Support Demand Circuits | 2091 |
| IMAP4-LIT | IMAP4 non-synchronizing literals | 2088 |
| IMAP4-QUO | IMAP4 QUOTA extension | 2087 |
| IMAP4-ACL | IMAP4 ACL extension | 2086 |
| HMAC-MD5 | HMAC-MD5 IP Authentication with Replay Prevention | 2085 |
| RIP2-MD5 | RIP-2 MD5 Authentication | 2082 |
| RIPNG-IPV6 | RIPng for IPv6 | 2080 |
| URI-ATT | Definition of an X.500 Attribute Type and an Object Class to Hold Uniform Resource Identifiers (URIs) | 2079 |
| MIME-MODEL | The Model Primary Content Type for Multipurpose Internet Mail Extensions | 2077 |
| IMAPV4 | Internet Message Access Protocol - Version 4rev1 | 2060 |
| URLZ39.50 | Uniform Resource Locators for Z39.50 | 2056 |
| SNANAU-APP | Definitions of Managed Objects for APPC using SMIv2 | 2051 |
| PPP-SNACP | The PPP SNA Control Protocol (SNACP) | 2043 |
| SMTP-ENH | SMTP Service Extension for Returning Enhanced Error | 2034 |
| ·- 061 | Codes | 0000 |
| RTP-H.261 | RTP Payload Format for H.261 Video Streams | 2032 |
| RTP-CELLB | RTP Payload Format of Sun's CellB Video Encoding | 2029 |
| SPKM | The Simple Public-Key GSS-API Mechanism (SPKM) | 2025 |
| DLSW-MIB | Definitions of Managed Objects for Data Link Switching using SMIv2 | 2024 |

| MULTI-UNI | Support for Multicast over UNI 3.0/3.1 based ATM Networks | 2022 |
|------------|---|------|
| RMON-MIB | Remote Network Monitoring Management Information Base Version 2 using SMIv2 | 2021 |
| 802.12-MIB | IEEE 802.12 Interface MIB | 2020 |
| TCP-ACK | TCP Selective Acknowledgement Options | 2018 |
| URL-ACC | Definition of the URL MIME External-Body Access-Type | 2017 |
| MIME-PGP | MIME Security with Pretty Good Privacy (PGP) | 2015 |
| MIB-UDP | SNMPv2 Management Information Base for the User | 2013 |
| 1112 021 | Datagram Protocol using SMIv2 | 2013 |
| MIB-TCP | SNMPv2 Management Information Base for the | 2012 |
| | Transmission Control Protocol using SMIv2 | |
| MIB-IP | SNMPv2 Management Information Base for the Internet | 2011 |
| | Protocol using SMIv2 | |
| MOBILEIPMI | The Definitions of Managed Objects for IP Mobility | 2006 |
| | Support using SMIv2 | |
| | Applicability Statement for IP Mobility Support | 2005 |
| MINI-IP | Minimal Encapsulation within IP | 2004 |
| IPENCAPIP | IP Encapsulation within IP | 2003 |
| BGP-COMM | BGP Communities Attribute | 1997 |
| DNS-NOTIFY | A Mechanism for Prompt Notification of Zone Changes (DNS NOTIFY) | 1996 |
| DNS-IZT | Incremental Zone Transfer in DNS | 1995 |
| SMTP-ETRN | SMTP Service Extension for Remote Message Queue | 1985 |
| | Starting | |
| SNA | Serial Number Arithmetic | 1982 |
| MTU-IPV6 | Path MTU Discovery for IP version 6 | 1981 |
| PPP-FRAME | PPP in Frame Relay | 1973 |
| PPP-ECP | The PPP Encryption Control Protocol (ECP) | 1968 |
| GSSAPI-KER | The Kerberos Version 5 GSS-API Mechanism | 1964 |
| PPP-CCP | The PPP Compression Control Protocol (CCP) | 1962 |
| | GSS-API Authentication Method for SOCKS Version 5 | 1961 |
| | Username/Password Authentication for SOCKS V5 | 1929 |
| SOCKSV5 | SOCKS Protocol Version 5 | 1928 |
| WHOIS++M | How to Interact with a Whois++ Mesh | 1914 |
| WHOIS++A | Architecture of the Whois++ Index Service | 1913 |
| DSN | An Extensible Message Format for Delivery Status Notifications | 1894 |
| EMS-CODE | Enhanced Mail System Status Codes | 1893 |
| MIME-RPT | The Multipart/Report Content Type for the Reporting | 1892 |
| | of Mail System Administrative Messages | |
| SMTP-DSN | SMTP Service Extension for Delivery Status | 1891 |
| | Notifications | |
| RTP-AV | RTP Profile for Audio and Video Conferences with | 1890 |
| | Minimal Control | |
| RTP | RTP: A Transport Protocol for Real-Time Applications | 1889 |
| DNS-IPV6 | DNS Extensions to support IP version 6 | 1886 |
| MIME-Sec | MIME Object Security Services | 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 | 1831 |
| | Version 2 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-AUTH | 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 | Definitions of Managed Objects for SNA NAUs using SMIv2 | 1666 |
| PPP-TRANS | PPP Reliable Transmission | 1663 |
| | Postmaster Convention for X.400 Operations | 1648 |
| UPS-MIB | UPS Management Information Base | 1628 |
| PPP-ISDN | PPP over ISDN | 1618 |
| PPP-X25 | PPP in X.25 | 1598 |
| | The OSPF NSSA Option | 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 Protocol (IPXCP) | 1552 |
| | | |

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| 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 | FDDI Management Information Base | 1512 |
| KERBEROS | The Kerberos Network Authentication Service (V5) | 1510 |
| | X.400 Use of Extended Character Sets | 1502 |
| HARPOON | Rules for downgrading messages from X.400/88 to | 1496 |
| | X.400/84 when MIME content-types are present in the messages | |
| Ecuita | Equivalences between 1988 X.400 and RFC-822 Message | 1494 |
| Equiv | Bodies | 1494 |
| IDPR | Inter-Domain Policy Routing Protocol Specification: | 1479 |
| | Version 1 | |
| IDPR-ARCH | An Architecture for Inter-Domain Policy Routing | 1478 |
| PPP/Bridge | The Definitions of Managed Objects for the Bridge Network Control Protocol of the Point-to-Point Protocol | 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 | IP Multicast over Token-Ring Local Area Networks | 1469 |
| X25-MIB | SNMP MIB extension for Multiprotocol Interconnect over X.25 | 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 over IPX | 1420 |
| SNMP-AT | SNMP over AppleTalk | 1419 |
| SNMP-OSI | SNMP over OSI | 1418 |
| FTP | FTP-FTAM Gateway Specification | 1415 |
| | | |

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| IDENT-MIB | Identification MIB | 1414 |
|------------|---|------|
| IDENT | Identification Protocol | 1413 |
| | Default Route Advertisement In BGP2 and BGP3 Version | 1397 |
| | of The Border Gateway Protocol | |
| SNMP-X.25 | SNMP MIB Extension for the X.25 Packet Layer | 1382 |
| SNMP-LAPB | SNMP MIB Extension for X.25 LAPB | 1381 |
| PPP-ATCP | The PPP AppleTalk Control Protocol (ATCP) | 1378 |
| | The PPP OSI Network Layer Control Protocol (OSINLCP) | 1377 |
| TOPT-RFC | Telnet Remote Flow Control Option | 1372 |
| | Applicability Statement for OSPF | 1370 |
| PPP-IPCP | The PPP Internet Protocol Control Protocol (IPCP) | 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 | |
| | Replication and Distributed Operations extensions | 1276 |
| | to provide an Internet Directory using X.500 | 4054 |
| | The COSINE and Internet X.500 Schema | 1274 |
| BGP-MIB | Definitions of Managed Objects for the Border Gateway Protocol: Version 3 | 1269 |
| 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 |
| 10 10 | environments | |
| IP-CMPRS | 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 |
| | implementation | |
| TOPT-3270 | Telnet 3270 regime option | 1041 |
| NNTP | Network News Transfer Protocol | 977 |
| TOPT-TLN | Telnet terminal location number option | 946 |
| TOPT-OM | Output marking Telnet option | 933 |
| TOPT-TACAC | TACACS user identification Telnet option | 927 |
| TOPT-EOR | Telnet end of record option | 885 |
| TOPT-SNDL | Telnet send-location option | 779 |
| TOPT-SUPO | Telnet SUPDUP-Output option | 749 |
| TOPT-SUP | Telnet SUPDUP option | 736 |
| TOPT-BYTE | Revised Telnet byte macro option | 735 |
| | | |

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

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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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3.5. Best Current Practice by BCP

| Mnemonic | Title | RFC# | BCP# |
|----------|---|------|------|
| | Best Current Practices | 1818 | 1 |
| | Addendum to RFC 1602 Variance Procedure | 1871 | . 2 |
| | Variance for The PPP Compression Control Protocol | 1915 | 3 |
| | and The PPP Encryption Control Protocol | | |
| | An Appeal to the Internet Community to Return | 1917 | 4 |
| | Unused IP Networks (Prefixes) to the IANA | | _ |
| | Address Allocation for Private Internets | 1918 | 5 |
| | Guidelines for creation, selection, and | 1930 | |
| | registration of an Autonomous System (AS) | 1750 | O |
| | Implications of Various Address Allocation | 2008 | 7 |
| | Policies for Internet Routing | 2000 | , |
| | IRTF Research Group Guidelines and Procedures | 2014 | . 8 |
| | The Internet Standards Process Revision 3 | 2014 | |
| | | | |
| | IAB and IESG Selection, Confirmation, and Recall | 2727 | Τ0 |
| | Process: Operation of the Nominating and Recall | | |
| | Committees | | |
| | The Organizations Involved in the IETF Standards | 2028 | 11 |
| | Process | | |
| | Internet Registry IP Allocation Guidelines | 2050 | |
| | Multipurpose Internet Mail Extensions (MIME) Part | 2048 | 13 |
| | Four: Registration Procedures | | |
| | Key words for use in RFCs to Indicate Requirement | 2119 | 14 |
| | Levels | | |
| | Deployment of the Internet White Pages Service | 2148 | 15 |
| | Selection and Operation of Secondary DNS Servers | 2182 | 16 |
| | Use of DNS Aliases for Network Services | 2219 | 17 |
| | IETF Policy on Character Sets and Languages | 2277 | 18 |
| | IANA Charset Registration Procedures | 2978 | 19 |
| | Classless IN-ADDR.ARPA delegation | 2317 | 20 |
| | Expectations for Computer Security Incident | 2350 | 21 |
| | Response | | |
| | Guide for Internet Standards Writers | 2360 | 22 |
| | Administratively Scoped IP Multicast | 2365 | |
| | RSVP over ATM Implementation Guidelines | 2379 | |
| | IETF Working Group Guidelines and Procedures | 2418 | 25 |
| | Guidelines for Writing an IANA Considerations | 2434 | |
| | Section in RFCs | | |
| | Advancement of MIB specifications on the IETF | 2438 | 27 |
| | Standards Track | 2130 | |
| | Enhancing TCP Over Satellite Channels using | 2488 | 28 |
| | Standard Mechanisms | 2100 | 20 |
| | Procedure for Defining New DHCP Options | 2489 | 29 |
| | Anti-Spam Recommendations for SMTP MTAs | 2505 | |
| | Media Feature Tag Registration Procedure | 2506 | |
| | media reacute tay regiscration Procedure | 2500 | JΙ |

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| Reserved Top Level DNS Names | 2606 | 32 |
|--|------|----|
| URN Namespace Definition Mechanisms | 2611 | 33 |
| Changing the Default for Directed Broadcasts in Routers | 2644 | 34 |
| Registration Procedures for URL Scheme Names | 2717 | 35 |
| 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 | 2827 | 38 |
| Charter of the Internet Architecture Board (IAB) | 2850 | 39 |
| Root Name Server Operational Requirements | 2870 | |
| Congestion Control Principles | 2914 | |
| Domain Name System (DNS) IANA Considerations | 2929 | |
| Procedures and IANA Guidelines for Definition of | 2939 | |
| New DHCP Options and Message Types | | |
| Use of HTTP State Management | 2964 | 44 |
| IETF Discussion List Charter | 3005 | 45 |
| Recommended Internet Service Provider Security Services and Procedures | 3013 | 46 |
| Tags for the Identification of Languages | 3066 | 47 |
| End-to-end Performance Implications of Slow Links | 3150 | 48 |
| Delegation of IP6.ARPA | 3152 | 49 |
| End-to-end Performance Implications of Links with Errors | 3155 | |
| IANA Guidelines for IPv4 Multicast Address Assignments | 3171 | 51 |
| Management Guidelines & Operational Requirements for the Address and Routing Parameter Area Domain ("arpa") | 3172 | 52 |
| GLOP Addressing in 233/8 | 3180 | 53 |
| IETF Guidelines for Conduct | 3184 | |
| Guidelines for Evidence Collection and Archiving | 3227 | |
| On the use of HTTP as a Substrate | 3205 | |
| IANA Considerations for IPv4 Internet Group Management Protocol (IGMP) | 3228 | |
| Defining the IETF | 3233 | 58 |
| A Transient Prefix for Identifying Profiles under | 3349 | |
| Development | | |
| Inappropriate TCP Resets Considered Harmful | 3360 | |
| Strong Security Requirements for Internet Engineering Task Force Standard Protocols | 3365 | 61 |
| Advice to link designers on link Automatic Repeat reQuest (ARQ) | 3366 | 62 |
| Session Initiation Protocol (SIP) for Telephones (SIP-T): Context and Architectures | 3372 | 63 |

| RFC 3300 | Internet Standards | November 2002 |
|----------|---|---------------|
| | | |
| | Internet Assigned Numbers Authority (IANA) | 3383 64 |
| | Considerations for the Lightweight Directory | |
| | Access Protocol (LDAP) | |
| | Dynamic Delegation Discovery System (DDDS) Part | 3405 65 |
| | Five: URI.ARPA Assignment Procedures | |
| | Uniform Resource Names (URN) Namespace Definition | on 3406 66 |
| | Mechanisms | |

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3.6. Best Current Practice by RFC

| Mnemonic | Title | BCP# | RFC# |
|----------|--|------|------|
| | Uniform Resource Names (URN) Namespace Definition Mechanisms | 66 | 3406 |
| | 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 |
| | Session Initiation Protocol (SIP) for Telephones (SIP-T): Context and Architectures | 63 | 3372 |
| | Advice to link designers on link Automatic Repeat reQuest (ARQ) | 62 | 3366 |
| | Strong Security Requirements for Internet Engineering Task Force Standard Protocols | 61 | 3365 |
| | Inappropriate TCP Resets Considered Harmful | 60 | 3360 |
| | A Transient Prefix for Identifying Profiles under Development | 59 | 3349 |
| | Defining the IETF | 58 | 3233 |
| | IANA Considerations for IPv4 Internet Group Management Protocol (IGMP) | 57 | 3228 |
| | Guidelines for Evidence Collection and Archiving | 55 | 3227 |
| | On the use of HTTP as a Substrate | 56 | 3205 |
| | IETF Guidelines for Conduct | 54 | 3184 |
| | GLOP Addressing in 233/8 | 53 | 3180 |
| | Management Guidelines & Operational Requirements for the Address and Routing Parameter Area Domain ("arpa") | 52 | 3172 |
| | IANA Guidelines for IPv4 Multicast Address Assignments | 51 | 3171 |
| | End-to-end Performance Implications of Links with Errors | 50 | 3155 |
| | Delegation of IP6.ARPA | 49 | 3152 |
| | End-to-end Performance Implications of Slow Links | 48 | 3150 |
| | Tags for the Identification of Languages | 47 | 3066 |
| | Recommended Internet Service Provider Security Services and Procedures | 46 | 3013 |
| | IETF Discussion List Charter | 45 | 3005 |
| | IANA Charset Registration Procedures | 19 | 2978 |
| | Use of HTTP State Management | 44 | 2964 |
| | Procedures and IANA Guidelines for Definition of New DHCP Options and Message Types | 43 | 2939 |
| | Domain Name System (DNS) IANA Considerations | 42 | 2929 |
| | Congestion Control Principles | 41 | 2914 |
| | Root Name Server Operational Requirements | 40 | 2870 |
| | Charter of the Internet Architecture Board (IAB) | 39 | 2850 |

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| Network Ingress Filtering: Defeating Denial of Service Attacks which employ IP Source Address | 38 | 2827 |
|---|----|------|
| Spoofing IANA Allocation Guidelines For Values In the Internet Protocol and Related Headers | 37 | 2780 |
| Guidelines for Writers of RTP Payload Format Specifications | 36 | 2736 |
| IAB and IESG Selection, Confirmation, and Recall Process: Operation of the Nominating and Recall Committees | 10 | 2727 |
| Registration Procedures for URL Scheme Names | 35 | 2717 |
| Changing the Default for Directed Broadcasts in Routers | 34 | 2644 |
| URN Namespace Definition Mechanisms | 33 | 2611 |
| Reserved Top Level DNS Names | 32 | 2606 |
| Media Feature Tag Registration Procedure | 31 | 2506 |
| Anti-Spam Recommendations for SMTP MTAs | 30 | 2505 |
| Procedure for Defining New DHCP Options | 29 | 2489 |
| Enhancing TCP Over Satellite Channels using Standard Mechanisms | 28 | 2488 |
| Advancement of MIB specifications on the IETF Standards Track | 27 | 2438 |
| Guidelines for Writing an IANA Considerations Section in RFCs | 26 | 2434 |
| IETF Working Group Guidelines and Procedures | 25 | 2418 |
| RSVP over ATM Implementation Guidelines | 24 | 2379 |
| Administratively Scoped IP Multicast | 23 | 2365 |
| Guide for Internet Standards Writers | 22 | 2360 |
| Expectations for Computer Security Incident | 21 | 2350 |
| Response | | |
| Classless IN-ADDR.ARPA delegation | 20 | 2317 |
| IETF Policy on Character Sets and Languages | 18 | 2277 |
| Use of DNS Aliases for Network Services | 17 | 2219 |
| Selection and Operation of Secondary DNS Servers | 16 | 2182 |
| Deployment of the Internet White Pages Service | 15 | 2148 |
| Key words for use in RFCs to Indicate Requirement Levels | 14 | 2119 |
| Internet Registry IP Allocation Guidelines | 12 | 2050 |
| Multipurpose Internet Mail Extensions (MIME) Part Four: Registration Procedures | 13 | 2048 |
| The Organizations Involved in the IETF Standards Process | 11 | 2028 |
| The Internet Standards Process Revision 3 | 9 | 2026 |
| IRTF Research Group Guidelines and Procedures | 8 | 2014 |
| Implications of Various Address Allocation | 7 | 2008 |
| Policies for Internet Routing | | |
| Guidelines for creation, selection, and Registration of an Autonomous System (AS) | 6 | 1930 |
| | | |

| Address Allocation for Private Internets | 5 | 1918 |
|---|---|------|
| An Appeal to the Internet Community to Return | 4 | 1917 |
| Unused IP Networks (Prefixes) to the IANA | | |
| Variance for The PPP Compression Control Protocol | 3 | 1915 |
| and The PPP Encryption Control Protocol | | |
| Addendum to RFC 1602 Variance Procedure | 2 | 1871 |
| Best Current Practices | 1 | 1818 |

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3.7. Experimental Protocols

| Mnemonic | Title | RFC# |
|----------|--|-------|
| | 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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| | regionation find and some find the second se | 2656 |
| | or mach object format for born objects | 2655 |
| | A lagged flider object for use in the common flidering | 2654 |
| | Protocol | |
| | 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 | -S Photuris: Session-Key Management Protocol | 2522 |
| ICMP-SEC | | 2521 |
| NHRP-MNH | ICS NHRP with Mobile NHCs | 2520 |
| | URI Resolution Services Necessary for URN Resolution | 2483 |
| | | 2471 |
| MARS-SCS | | 2443 |
| TCP-WIN | Increasing TCP's Initial Window | 2414 |
| PIM-SM | Protocol Independent Multicast-Sparse Mode (PIM- | 2362 |
| | SM): Protocol Specification | |
| | | 2345 |
| RTP-MPEG | | 2343 |
| | | 2337 |
| | using Sparse Mode PIM | 2337 |
| | | 2310 |
| LDAP-NIS | | 2317 |
| DDAI NIC | Service | 2507 |
| HTTP-RVS | | 2296 |
| TCN-HTTE | | 2295 |
| | IPO Telnet Com Port Control Option | 2217 |
| 10P1=CON | | 2217 |
| | | 2189 |
| | Protocol Specification | 2109 |
| | | 21.60 |
| | II IIIVIGI CONVENCION TOL GRING MILL IN OUV NEBOLGETON | 2169 |
| MAP-MAII | | 2162 |
| MINTE OF | and Mail-11 mail | 21.61 |
| MIME-ODA | - | 2161 |
| OSPF-DIG | | 2154 |
| IP-SCSI | Encapsulating IP with the Small Computer System | 2143 |
| FOO | Interface | 0100 |
| | ME Managing the X.500 Root Naming Context | 2120 |
| GKMP-ARC | H Group Key Management Protocol (GKMP) Architecture | 2094 |
| | | |

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| GKMP-SPEC | Group Key Management Protocol (GKMP) Specification | 2093 |
|------------|---|------|
| TFTP-MULTI | TFTP Multicast Option | 2090 |
| IP-Echo | IP Echo Host Service | 2075 |
| | | |
| TOPT-CHARS | TELNET CHARSET Option | 2066 |
| URAS | Uniform Resource Agents (URAs) | 2016 |
| GPS-AR | GPS-Based Addressing and Routing | 2009 |
| ETFTP | Experiments with a Simple File Transfer Protocol | 1986 |
| D11 11 | | 1700 |
| | 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 | |
| COMT NO | | 1074 |
| 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 |
| 201 12111 | mesh routing | |
| man 3 pma | | 1051 |
| 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 |
| | | 1000 |
| | 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 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 |
| | | |
| | Charting Networks in the X.500 Directory | 1609 |
| X500-DIR | Representing IP Information in the X.500 Directory | 1608 |
| | | |

| SNMP-DPI | Simple Network Management Protocol Distributed Protocol Interface Version 2.0 | 1592 |
|--------------------|---|------|
| CLNP-TUBA | Use of ISO CLNP in TUBA Environments | 1561 |
| REM-PRINT | Principles of Operation for the TPC.INT Subdomain: | 1528 |
| | 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 | 1105 |
| | Table Format V3 for Static Routing | |
| | Using the Domain Name System To Store Arbitrary | 1464 |
| | String Attributes | 1101 |
| 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-SPX TEL-KER | Telnet Authentication: SPX Telnet Authentication: Kerberos Version 4 | 1411 |
| TRACE-IP | Traceroute Using an IP Option | 1393 |
| | | 1383 |
| DNS-IP RMCP | An Experiment in DNS Based IP Routing | |
| _ | 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 |
| GING MID | Version 1 | 1020 |
| CLNS-MIB | CLNS MIB for use with Connectionless Network Protocol | 1238 |
| | (ISO 8473) and End System to Intermediate | |
| GED D | System (ISO 9542) | 1005 |
| 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 | 1004 |
| 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 |

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

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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 |
| SNMP-PARTY | 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 |

| 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 | 1051 |
| | and ARP packets over ARCNET networks | |
| 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 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 |
| | | 002 |

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

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

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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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