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Internet Official Protocol Standards

Status of This Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

IESG Note

This document obsoletes RFC 3700. It also reclassifies RFCs that were previously published as STD 1 as Historic. More specifically, this RFC moves RFCs 3000, 3300, 3600, and 3700 to Historic status.

Abstract

This document is published by the RFC Editor to provide a summary of the current standards protocols (as of 18 February 2008). It lists those official protocol standards, Best Current Practice, and Experimental RFCs that have not been obsoleted; it is not a complete index to the RFC series. Newly published RFCs and RFCs whose status has changed are starred.

For an up-to-date list, see <http://www.rfc-editor.org/rfcxx00.html>, which is updated daily.

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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 a 18 February 2008 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 4 streams: IAB, IETF, IRTF, and Independent Submission via the RFC Editor.

This memo is published by the RFC Editor for the IESG and IAB, in which the categorizations are in accordance with Section 2.1 of "The Internet Standards Process -- Revision 3", RFC 2026, which specifies the rules and procedures by which all Internet standards are set. Sections 3.1 - 3.7 of this memo contain the lists of protocols in each stage of standardization - Standard, Draft Standard, Proposed Standard, Experimental, as well as Best Current Practice documents. Protocols that are new to this document or have been moved from one protocol level to another, or that differ from the previous edition of this document are marked with an asterisk. Informational and Historic RFCs are not included. This list is not a complete index to RFCs.

2. RFC Resources and Retrieval

This list is a live document that is updated daily on the RFC Editor site at:

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

RFCs are available online via http and ftp as:

<http://www.rfc-editor.org/rfc/rfcXXXX.txt>
<ftp://ftp.rfc-editor.org/in-notes/rfcXXXX.txt>

where XXXX represents the corresponding RFC number.

The RFC Editor maintains the official repository of all RFCs and indexes to them. The site also provides additional information about the history of the RFC Editor, current submission and review procedures, and editorial and publication procedures. Please see the RFC Editor site for all other RFC related information:

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

3. Current Technical Specifications

3.1. Standard Protocols Ordered by STD

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

| Mnemonic | Title | RFC# | STD# |
|-----------|---|-------|------|
| ----- | Internet Official Protocol Standards | 5000* | 1 |
| ----- | [Reserved for Assigned Numbers. See RFC 1700 and RFC 3232.] | xxx | 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.] | xxx | 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 |
| FTP | File Transfer Protocol | 959 | 9 |
| ----- | ["Mail routing and the domain system". Was RFC 974 (STANDARD), Now HISTORIC.] | xxx | 10 |
| SMTP | ["Simple Mail Transfer Protocol". Was RFC 821 (STANDARD), Obsoleted by RFC 2821 (PROPOSED STANDARD)] | xxx | 10 |
| ----- | ["SMTP Service Extensions". Was RFC 1869 (STANDARD), Obsoleted by RFC 2821 (PROPOSED STANDARD)] | xxx | 10 |
| SMTP-SIZE | SMTP Service Extension for Message Size Declaration | 1870 | 10 |
| MAIL | ["STANDARD FOR THE FORMAT OF ARPA INTERNET TEXT MESSAGES". Was RFC 822 (STANDARD), Obsoleted by RFC 2822 (PROPOSED STANDARD)] | xxx | 11 |
| ----- | [Reserved for Network Time Protocol (NTP). See RFC 1305.] | xxx | 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.] | xxx | 14 |
| ----- | [Was Simple Network Management Protocol. Now Historic.] | xxx | 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.] | xxx | 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 |
| ECHO | Echo Protocol | 862 | 20 |
| DISCARD | Discard Protocol | 863 | 21 |
| CHARGEN | Character Generator Protocol | 864 | 22 |
| QUOTE | Quote of the Day Protocol | 865 | 23 |
| USERS | Active users | 866 | 24 |
| DAYTIME | Daytime Protocol | 867 | 25 |
| TIME | Time Protocol | 868 | 26 |
| TOPT-BIN | Telnet Binary Transmission | 0 | 27 |
| TOPT-ECHO | Telnet Echo Option | 0 | 28 |
| TOPT-SUPP | Telnet Suppress Go Ahead Option | 0 | 29 |
| ----- | Telnet Status Option | 859 | 30 |
| TOPT-TIM | Telnet Timing Mark Option | 0 | 31 |
| TOPT-EXTOP | Telnet Extended Options: List Option | 0 | 32 |
| TFTP | The TFTP Protocol (Revision 2) | 1350 | 33 |
| ----- | [Was Routing Information Protocol (RIP). Replaced by STD 56.] | xxx | 34 |
| TP-TCP | ISO Transport Service on top of the TCP Version: 3 | 1006 | 35 |
| IP-FDDI | Transmission of IP and ARP over FDDI Networks | 1390 | 36 |
| ARP | Ethernet Address Resolution Protocol: Or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware | 826 | 37 |
| RARP | A Reverse Address Resolution Protocol | 903 | 38 |
| IP-ARPA | [Was BBN Report 1822 (IMP/Host Interface). Now Historic.] | xxx | 39 |
| IP-WB | Host Access Protocol specification | 907 | 40 |
| IP-E | A Standard for the Transmission of IP Datagrams over Ethernet Networks | 894 | 41 |
| IP-EE | Standard for the transmission of IP datagrams over experimental Ethernet networks | 895 | 42 |
| IP-IEEE | Standard for the transmission of IP datagrams over IEEE 802 networks | 1042 | 43 |
| IP-DC | DCN Local-Network Protocols | 891 | 44 |
| IP-HC | Internet Protocol on Network System's HYPERchannel: Protocol Specification | 1044 | 45 |
| IP-ARC | Transmitting IP traffic over ARCNET networks | 1201 | 46 |

| | | | |
|------------|--|-------|----|
| IP-SLIP | Nonstandard for transmission of IP datagrams over serial lines: SLIP | 1055 | 47 |
| IP-NETBIOS | Standard for the transmission of IP datagrams over NetBIOS networks | 1088 | 48 |
| IP-IPX | Standard for the transmission of 802.2 packets over IPX networks | 1132 | 49 |
| ----- | [Reserved for Definitions of Managed Objects for the Ethernet-like Interface Types. See RFC 3638.] | xxx | 50 |
| PPP | The Point-to-Point Protocol (PPP) | 1661 | 51 |
| PPP-HDLC | PPP in HDLC-like Framing | 1662 | 51 |
| IP-SMDS | The Transmission of IP Datagrams over the SMDS Service | 1209 | 52 |
| POP3 | Post Office Protocol - Version 3 | 1939 | 53 |
| OSPF2 | OSPF Version 2 | 2328 | 54 |
| IP-FR | Multiprotocol Interconnect over Frame Relay | 2427 | 55 |
| RIP2 | RIP Version 2 | 2453 | 56 |
| RIP2-APP | RIP Version 2 Protocol Applicability Statement | 1722 | 57 |
| SMIv2 | Structure of Management Information Version 2 (SMIv2) | 2578 | 58 |
| CONV-MIB | Textual Conventions for SMIv2 | 2579 | 58 |
| CONF-MIB | Conformance Statements for SMIv2 | 2580 | 58 |
| RMON-MIB | Remote Network Monitoring Management Information Base | 2819 | 59 |
| SMTP-Pipe | SMTP Service Extension for Command Pipelining | 2920 | 60 |
| ONE-PASS | A One-Time Password System | 2289 | 61 |
| ARCH-SNMP | An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks | 3411 | 62 |
| MPD-SNMP | Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) | 3412 | 62 |
| SNMP-APP | Simple Network Management Protocol (SNMP) Applications | 3413 | 62 |
| USM-SNMPV3 | User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) | 3414 | 62 |
| VACM-SNMP | View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP) | 3415 | 62 |
| OPS-MIB | Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP) | 3416 | 62 |
| TRANS-MIB | Transport Mappings for the Simple Network Management Protocol (SNMP) | 3417 | 62 |
| SNMPv2-MIB | Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) | 3418 | 62 |
| UTF-8 | UTF-8, a transformation format of ISO 10646 | 3629 | 63 |
| RTP | RTP: A Transport Protocol for Real-Time Applications | 3550 | 64 |
| RTP-AV | RTP Profile for Audio and Video Conferences with Minimal Control | 3551 | 65 |
| ----- | Uniform Resource Identifier (URI): Generic Syntax | 3986* | 66 |

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|------|---|-------|----|
| XDR | XDR: External Data Representation Standard | 4506* | 67 |
| ABNF | Augmented BNF for Syntax Specifications: ABNF | 5234* | 68 |

3.2. Standard Protocols Ordered by RFC

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

| Mnemonic | Title | STD# | RFC# |
|------------|--|------|-------|
| ABNF | Augmented BNF for Syntax Specifications: ABNF | 68 | 5234* |
| ----- | Internet Official Protocol Standards | 1 | 5000* |
| XDR | XDR: External Data Representation Standard | 67 | 4506* |
| ----- | Uniform Resource Identifier (URI): Generic Syntax | 66 | 3986* |
| UTF-8 | UTF-8, a transformation format of ISO 10646 | 63 | 3629 |
| RTP-AV | RTP Profile for Audio and Video Conferences with Minimal Control | 65 | 3551 |
| RTP | RTP: A Transport Protocol for Real-Time Applications | 64 | 3550 |
| SNMPv2-MIB | Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) | 62 | 3418 |
| TRANS-MIB | Transport Mappings for the Simple Network Management Protocol (SNMP) | 62 | 3417 |
| OPS-MIB | Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP) | 62 | 3416 |
| VACM-SNMP | View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP) | 62 | 3415 |
| USM-SNMPV3 | User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) | 62 | 3414 |
| SNMP-APP | Simple Network Management Protocol (SNMP) Applications | 62 | 3413 |
| MPD-SNMP | Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) | 62 | 3412 |
| ARCH-SNMP | An Architecture for Describing Simple Network Management Protocol (SNMP) Management Frameworks | 62 | 3411 |
| SMTP-Pipe | SMTP Service Extension for Command Pipelining | 60 | 2920 |
| RMON-MIB | Remote Network Monitoring Management Information Base | 59 | 2819 |
| CONF-MIB | Conformance Statements for SMIV2 | 58 | 2580 |
| CONV-MIB | Textual Conventions for SMIV2 | 58 | 2579 |
| SMIV2 | Structure of Management Information Version 2 (SMIV2) | 58 | 2578 |
| RIP2 | RIP Version 2 | 56 | 2453 |
| IP-FR | Multiprotocol Interconnect over Frame Relay | 55 | 2427 |
| OSPF2 | OSPF Version 2 | 54 | 2328 |
| ONE-PASS | A One-Time Password System | 61 | 2289 |
| POP3 | Post Office Protocol - Version 3 | 53 | 1939 |

| | | | |
|------------|---|----|------|
| SMTP-SIZE | SMTP Service Extension for Message Size Declaration | 10 | 1870 |
| RIP2-APP | RIP Version 2 Protocol Applicability Statement | 57 | 1722 |
| PPP-HDLC | PPP in HDLC-like Framing | 51 | 1662 |
| PPP | The Point-to-Point Protocol (PPP) | 51 | 1661 |
| IP-FDDI | Transmission of IP and ARP over FDDI Networks | 36 | 1390 |
| TFTP | The TFTP Protocol (Revision 2) | 33 | 1350 |
| MIB-II | Management Information Base for Network Management of TCP/IP-based internets:MIB-II | 17 | 1213 |
| Concise-MI | Concise MIB definitions | 16 | 1212 |
| IP-SMDS | The Transmission of IP Datagrams over the SMDS Service | 52 | 1209 |
| IP-ARC | Transmitting IP traffic over ARCNET networks | 46 | 1201 |
| SMI | Structure and identification of management information for TCP/IP-based internets | 16 | 1155 |
| IP-IPX | Standard for the transmission of 802.2 packets over IPX networks | 49 | 1132 |
| ----- | Requirements for Internet Hosts - Application and Support | 3 | 1123 |
| ----- | Requirements for Internet Hosts - Communication Layers | 3 | 1122 |
| IGMP | Host extensions for IP multicasting | 5 | 1112 |
| IP-NETBIOS | Standard for the transmission of IP datagrams over NetBIOS networks | 48 | 1088 |
| IP-SLIP | Nonstandard for transmission of IP datagrams over serial lines: SLIP | 47 | 1055 |
| IP-HC | Internet Protocol on Network System's HYPERchannel: Protocol Specification | 45 | 1044 |
| IP-IEEE | Standard for the transmission of IP datagrams over IEEE 802 networks | 43 | 1042 |
| DOMAIN | Domain names - implementation and specification | 13 | 1035 |
| DOMAIN | Domain names - concepts and facilities | 13 | 1034 |
| TP-TCP | ISO Transport Service on top of the TCP Version: 3 | 35 | 1006 |
| NETBIOS | Protocol standard for a NetBIOS service on a TCP/UDP transport: Detailed specifications | 19 | 1002 |
| NETBIOS | Protocol standard for a NetBIOS service on a TCP/UDP transport: Concepts and methods | 19 | 1001 |
| FTP | File Transfer Protocol | 9 | 959 |
| ----- | Internet Standard Subnetting Procedure | 5 | 950 |
| ----- | Broadcasting Internet datagrams in the presence of subnets | 5 | 922 |
| ----- | Broadcasting Internet Datagrams | 5 | 919 |
| IP-WB | Host Access Protocol specification | 40 | 907 |
| RARP | A Reverse Address Resolution Protocol | 38 | 903 |
| IP-EE | Standard for the transmission of IP datagrams over experimental Ethernet networks | 42 | 895 |

| | | | |
|---------|--|----|-----|
| IP-E | A Standard for the Transmission of IP Datagrams over Ethernet Networks | 41 | 894 |
| IP-DC | DCN Local-Network Protocols | 44 | 891 |
| TIME | Time Protocol | 26 | 868 |
| DAYTIME | Daytime Protocol | 25 | 867 |
| USERS | Active users | 24 | 866 |
| QUOTE | Quote of the Day Protocol | 23 | 865 |
| CHARGEN | Character Generator Protocol | 22 | 864 |
| DISCARD | Discard Protocol | 21 | 863 |
| ECHO | Echo Protocol | 20 | 862 |
| ----- | Telnet Status Option | 30 | 859 |
| TELNET | Telnet Protocol Specification | 8 | 854 |
| ARP | Ethernet Address Resolution Protocol: Or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware | 37 | 826 |
| TCP | Transmission Control Protocol | 7 | 793 |
| ICMP | Internet Control Message Protocol | 5 | 792 |
| IP | Internet Protocol | 5 | 791 |
| UDP | User Datagram Protocol | 6 | 768 |

3.3. Draft Standard Protocols

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

| Mnemonic | Title | RFC# |
|-----------|--|-------|
| IPv6-PPP | IP Version 6 over PPP | 5072* |
| ----- | Autonomous System Confederations for BGP | 5065* |
| ----- | LDP Specification | 5036* |
| ----- | Privacy Extensions for Stateless Address Autoconfiguration in IPv6 | 4941* |
| ----- | Extensible Provisioning Protocol (EPP) Transport Over TCP | 4934* |
| ----- | Extensible Provisioning Protocol (EPP) Contact Mapping | 4933* |
| ----- | Extensible Provisioning Protocol (EPP) Host Mapping | 4932* |
| ----- | Extensible Provisioning Protocol (EPP) Domain Name Mapping | 4931* |
| ----- | Extensible Provisioning Protocol (EPP) | 4930* |
| IPv6-AUTO | IPv6 Stateless Address Autoconfiguration | 4862* |
| IPv6-ND | Neighbor Discovery for IP version 6 (IPv6) | 4861* |
| MEXT-BGP4 | Multiprotocol Extensions for BGP-4 | 4760* |
| RMON-MIB | Remote Network Monitoring Management Information Base Version 2 | 4502* |
| BGP-RR | BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP) | 4456* |

| | | |
|------------|---|-------|
| ----- | Internet Control Message Protocol (ICMPv6) for the | 4443* |
| | Internet Protocol Version 6 (IPv6) Specification | |
| ----- | Message Submission for Mail | 4409* |
| ----- | IP Version 6 Addressing Architecture | 4291* |
| BGP-4 | A Border Gateway Protocol 4 (BGP-4) | 4271* |
| SMFAX-IM | A Simple Mode of Facsimile Using Internet Mail | 3965* |
| FFIF | Tag Image File Format Fax eXtended (TIFF-FX) - image/tiff-fx MIME Sub-type Registration | 3950* |
| FFIF | File Format for Internet Fax | 3949* |
| NICNAME | WHOIS Protocol Specification | 3912* |
| CONT-DUR | Content Duration MIME Header Definition | 3803 |
| MIME-ADPCM | Toll Quality Voice - 32 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM) MIME Sub-type Registration | 3802 |
| MIME-VP2 | Voice Profile for Internet Mail - version 2 (VPIMv2) | 3801 |
| EMF-MDN | Message Disposition Notification | 3798 |
| VRRP | Virtual Router Redundancy Protocol (VRRP) | 3768 |
| ----- | DNS Extensions to Support IP Version 6 | 3596 |
| ----- | Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals | 3593 |
| ----- | Definitions of Managed Objects for the Synchronous Optical Network/Synchronous Digital Hierarchy (SONET/SDH) Interface Type | 3592 |
| DSN | An Extensible Message Format for Delivery Status Notifications | 3464 |
| EMS-CODE | Enhanced Mail System Status Codes | 3463 |
| MIME-RPT | The Multipart/Report Content Type for the Reporting of Mail System Administrative Messages | 3462 |
| SMTP-DSN | Simple Mail Transfer Protocol (SMTP) Service Extension for Delivery Status Notifications (DSNs) | 3461 |
| ----- | Capabilities Advertisement with BGP-4 | 3392 |
| TIFF | Tag Image File Format (TIFF) - image/tiff MIME Sub-type Registration | 3302 |
| ----- | Content Language Headers | 3282 |
| ----- | (Extensible Markup Language) XML-Signature Syntax and Processing | 3275 |
| MINFAX-IM | Minimal FAX address format in Internet Mail | 3192 |
| MIN-PSTN | Minimal GSTN address format in Internet Mail | 3191 |
| RMON-MIB | Remote Network Monitoring MIB Protocol Identifier Reference | 2895 |
| RADIUS | Remote Authentication Dial In User Service (RADIUS) | 2865 |
| INTERGRMIB | The Interfaces Group MIB | 2863 |
| ----- | Host Resources MIB | 2790 |
| SNMP | Definitions of Managed Objects for Extensible SNMP Agents | 2742 |
| ----- | Agent Extensibility (AgentX) Protocol Version 1 | 2741 |
| ----- | HTTP Authentication: Basic and Digest Access Authentication | 2617 |

| | | |
|------------|--|------|
| HTTP | Hypertext Transfer Protocol -- HTTP/1.1 | 2616 |
| ----- | Remote Network Monitoring MIB Extensions for Switched Networks Version 1.0 | 2613 |
| IPv6 | Internet Protocol, Version 6 (IPv6) Specification | 2460 |
| 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 |
| DHCP-BOOTP | DHCP Options and BOOTP Vendor Extensions | 2132 |
| DHCP | Dynamic Host Configuration Protocol | 2131 |
| FRAME-MIB | Management Information Base for Frame Relay DTEs Using SMIV2 | 2115 |
| IP-HIPPI | IP over HIPPI | 2067 |
| MIME-CONF | Multipurpose Internet Mail Extensions (MIME) Part Five: Conformance Criteria and Examples | 2049 |
| MIME-MSG | MIME (Multipurpose Internet Mail Extensions) Part Three: Message Header Extensions for Non-ASCII Text | 2047 |
| MIME-MEDIA | Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types | 2046 |
| MIME | Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies | 2045 |
| PPP-CHAP | PPP Challenge Handshake Authentication Protocol (CHAP) | 1994 |
| PPP-MP | The PPP Multilink Protocol (MP) | 1990 |
| PPP-LINK | PPP Link Quality Monitoring | 1989 |
| MTU-IPv6 | Path MTU Discovery for IP version 6 | 1981 |
| CON-MD5 | The Content-MD5 Header Field | 1864 |
| BGP-4-APP | Application of the Border Gateway Protocol in the Internet | 1772 |
| 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 |
| ----- | SMTP Service Extension for 8bit-MIMEtransport | 1652 |
| OSI-NSAP | Guidelines for OSI NSAP Allocation in the Internet | 1629 |
| ISO-TS-ECH | An Echo Function for CLNP (ISO 8473) | 1575 |
| DECNET-MIB | DECnet Phase IV MIB Extensions | 1559 |
| ----- | Clarifications and Extensions for the Bootstrap Protocol | 1542 |
| DHCP-BOOTP | Interoperation Between DHCP and BOOTP | 1534 |

| | | |
|-----------|--|------|
| IP-X.25 | Multiprotocol Interconnect on X.25 and ISDN in the Packet Mode | 1356 |
| NTPV3 | Network Time Protocol (Version 3) Specification, Implementation and Analysis | 1305 |
| FINGER | The Finger User Information Protocol | 1288 |
| IP-MTU | Path MTU discovery | 1191 |
| ----- | Proposed Standard for the Transmission of IP Datagrams over FDDI Networks | 1188 |
| TOPT-LINE | Telnet Linemode Option | 1184 |
| BOOTP | Bootstrap Protocol | 951 |

3.4. Proposed Standard Protocols

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

| Mnemonic | Title | RFC# |
|----------|---|-------|
| ----- | Sieve Email Filtering: Spamtest and Virustest Extensions | 5235* |
| ----- | Sieve Email Filtering: Subaddress Extension | 5233* |
| ----- | Sieve Email Filtering: Imap4flags Extension | 5232* |
| ----- | Sieve Email Filtering: Relational Extension | 5231* |
| ----- | Sieve Email Filtering: Vacation Extension | 5230* |
| ----- | Sieve Email Filtering: Variables Extension | 5229* |
| ----- | Sieve: An Email Filtering Language | 5228* |
| ----- | A More Loss-Tolerant RTP Payload Format for MP3 Audio | 5219* |
| ----- | Mobility Header Home Agent Switch Message | 5142* |
| ----- | Terminal Endpoint Identifier (TEI) Query Request Number Change | 5133* |
| ----- | IP Multicast MIB | 5132* |
| ----- | A MIB Textual Convention for Language Tags | 5131* |
| ----- | A Policy Control Mechanism in IS-IS Using Administrative Tags | 5130* |
| ----- | Explicit Congestion Marking in MPLS | 5129* |
| ----- | Transmission of IPv6 via the IPv6 Convergence Sublayer over IEEE 802.16 Networks | 5121* |
| ----- | M-ISIS: Multi Topology (MT) Routing in Intermediate System to Intermediate Systems (IS-ISs) | 5120* |
| ----- | An Interface and Algorithms for Authenticated Encryption | 5116* |
| ----- | Telephony Routing over IP (TRIP) Attribute for Resource Priority | 5115* |
| ----- | The Presence-Specific Static Dictionary for Signaling Compression (Sigcomp) | 5112* |
| ----- | RTP Payload Format for Generic Forward Error Correction | 5109* |
| ----- | DHCP Server Identifier Override Suboption | 5107* |

| | | |
|----------|--|-------|
| ----- | ENUM Validation Token Format Definition | 5105* |
| ----- | Bidirectional Flow Export Using IP Flow Information Export (IPFIX) | 5103* |
| ----- | Information Model for IP Flow Information Export | 5102* |
| ----- | Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange of IP Traffic Flow Information | 5101* |
| ----- | MIB for the UDP-Lite protocol | 5097* |
| ----- | Mobile IPv6 Experimental Messages | 5096* |
| ----- | Deprecation of Type 0 Routing Headers in IPv6 | 5095* |
| ----- | Mobile IPv6 Vendor Specific Option | 5094* |
| IMAP-URL | IMAP URL Scheme | 5092* |
| ----- | RADIUS Extension for Digest Authentication | 5090* |
| ----- | IS-IS Protocol Extensions for Path Computation Element (PCE) Discovery | 5089* |
| ----- | OSPF Protocol Extensions for Path Computation Element (PCE) Discovery | 5088* |
| ----- | Pseudowire Virtual Circuit Connectivity Verification (VCCV): A Control Channel for Pseudowires | 5085* |
| ----- | Using AES-CCM and AES-GCM Authenticated Encryption in the Cryptographic Message Syntax (CMS) | 5084* |
| ----- | Cryptographic Message Syntax (CMS) Authenticated-Enveloped-Data Content Type | 5083* |
| ----- | The Generalized TTL Security Mechanism (GTSM) | 5082* |
| ----- | Common Remote Authentication Dial In User Service (RADIUS) Implementation Issues and Suggested Fixes | 5080* |
| ----- | Rejecting Anonymous Requests in the Session Initiation Protocol (SIP) | 5079* |
| ----- | Transport Layer Security (TLS) Session Resumption without Server-Side State | 5077* |
| ----- | ENUM Validation Information Mapping for the Extensible Provisioning Protocol | 5076* |
| ----- | IPv6 Router Advertisement Flags Option | 5075* |
| ----- | IGP Routing Protocol Extensions for Discovery of Traffic Engineering Node Capabilities | 5073* |
| ----- | The Incident Object Description Exchange Format | 5070* |
| ----- | Ethernet in the First Mile Copper (EFMCu) Interfaces MIB | 5066* |
| ----- | The Archived-At Message Header Field | 5064* |
| ----- | Extensions to GMPLS Resource Reservation Protocol (RSVP) Graceful Restart | 5063* |
| ----- | Stream Control Transmission Protocol (SCTP) Dynamic Address Reconfiguration | 5061* |
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| SIIT | Stateless IP/ICMP Translation Algorithm (SIIT) | 2765 |
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| COPS | The COPS (Common Open Policy Service) Protocol | 2748 |
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| L2TP | Layer Two Tunneling Protocol "L2TP" | 2661 |
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| ----- | MIME Object Definitions for the Common Indexing Protocol (CIP) | 2652 |
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| ITIP | iCalendar Transport-Independent Interoperability Protocol (iTIP) Scheduling Events, BusyTime, To-dos and Journal Entries | 2446 |
| ICALNDAR | Internet Calendaring and Scheduling Core Object Specification (iCalendar) | 2445 |
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| 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 |
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| ----- | The Use of HMAC-MD5-96 within ESP and AH | 2403 |
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| POP-URL | POP URL Scheme | 2384 |
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| ----- | RSVP over ATM Implementation Requirements | 2380 |
| TIPV3 | Transaction Internet Protocol Version 3.0 | 2371 |
| OSPF-LSA | The OSPF Opaque LSA Option | 2370 |
| ----- | The Use of URLs as Meta-Syntax for Core Mail List Commands and their Transport through Message Header Fields | 2369 |
| URLMAILTO | The mailto URL scheme | 2368 |
| PPP-AAL | PPP Over AAL5 | 2364 |
| PPP-FUNI | PPP Over FUNI | 2363 |
| IMAP4NAME | IMAP4 Namespace | 2342 |
| 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 Signalling 4.0 Update | 2331 |
| RTSP | Real Time Streaming Protocol (RTSP) | 2326 |
| IPOA-MIB | Definitions of Managed Objects for Classical IP and ARP Over ATM Using SMIPv2 (IPOA-MIB) | 2320 |
| DNS-NCACHE | Negative Caching of DNS Queries (DNS NCACHE) | 2308 |
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| ----- | Definitions of Managed Objects for IEEE 802.12 Repeater Devices | 2266 |
| RTP-MPEG | RTP Payload Format for MPEG1/MPEG2 Video | 2250 |
| ----- | Using Domains in LDAP/X.500 Distinguished Names | 2247 |
| 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 SMIPv2 | 2238 |
| DLUR-MIB | Definitions of Managed Objects for DLUR using SMIPv2 | 2232 |
| MIME-EXT | MIME Parameter Value and Encoded Word Extensions: Character Sets, Languages, and Continuations | 2231 |

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| 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 |
| IMAP4LOGIN | IMAP4 Login Referrals | 2221 |
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| ----- | General Characterization Parameters for Integrated Service Network Elements | 2215 |
| ----- | Integrated Services Management Information Base | 2214 |
| ----- | Guaranteed Service Extensions using SMIPv2 | |
| ----- | Integrated Services Management Information Base using SMIPv2 | 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 SMIPv2 | 2206 |
| RSVP | Resource ReSerVation Protocol (RSVP) -- Version 1 Functional Specification | 2205 |
| RPCSEC-GSS | RPCSEC_GSS Protocol Specification | 2203 |
| RTP-RAD | RTP Payload for Redundant Audio Data | 2198 |
| IMAPPOPAU | IMAP/POP AUTHorize Extension for Simple Challenge/Response | 2195 |
| IMAP4MAIL | IMAP4 Mailbox Referrals | 2193 |
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| IMAP4-IDLE | IMAP4 IDLE command | 2177 |
| SLP | Service Location Protocol | 2165 |
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| DNS-MCGAM | Using the Internet DNS to Distribute MIXER Conformant Global Address Mapping (MCGAM) | 2163 |
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| 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 SMIPv2 | 2128 |
| ISDN-MIB | ISDN Management Information Base using SMIPv2 | 2127 |
| ITOT | ISO Transport Service on top of TCP (ITOT) | 2126 |

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| BAP-BACP | The PPP Bandwidth Allocation Protocol (BAP) / The PPP Bandwidth Allocation Control Protocol (BACP) | 2125 |
| 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 SMIPv2 | 2108 |
| PPP-NBFCP | The PPP NetBIOS Frames Control Protocol (NBFCP) | 2097 |
| RIP-TRIG | Triggered Extensions to RIP to Support Demand Circuits | 2091 |
| IMAP4-LIT | IMAP4 non-synchronizing literals | 2088 |
| IMAP4-QUO | IMAP4 QUOTA extension | 2087 |
| HMAC-MD5 | HMAC-MD5 IP Authentication with Replay Prevention | 2085 |
| 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 |
| URLZ39.50 | Uniform Resource Locators for Z39.50 | 2056 |
| SNANAU-APP | Definitions of Managed Objects for APPC using SMIPv2 | 2051 |
| PPP-SNACP | The PPP SNA Control Protocol (SNACP) | 2043 |
| SMTP-ENH | SMTP Service Extension for Returning Enhanced Error Codes | 2034 |
| 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 SMIPv2 | 2024 |
| MULTI-UNI | Support for Multicast over UNI 3.0/3.1 based ATM Networks | 2022 |
| 802.12-MIB | IEEE 802.12 Interface MIB | 2020 |
| TCP-ACK | TCP Selective Acknowledgment Options | 2018 |
| URL-ACC | Definition of the URL MIME External-Body Access-Type | 2017 |
| MIME-PGP | MIME Security with Pretty Good Privacy (PGP) | 2015 |
| MOBILEIPMI | The Definitions of Managed Objects for IP Mobility Support using SMIPv2 | 2006 |
| ----- | 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 Starting | 1985 |
| SNA | Serial Number Arithmetic | 1982 |
| 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 |

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| GSSAPI-SOC | GSS-API Authentication Method for SOCKS Version 5 | 1961 |
| AUTH-SOCKS | Username/Password Authentication for SOCKS V5 | 1929 |
| SOCKSV5 | SOCKS Protocol Version 5 | 1928 |
| MIME-Encyp | Security Multiparts for MIME: Multipart/Signed and Multipart/Encrypted | 1847 |
| ----- | Binding Protocols for ONC RPC Version 2 | 1833 |
| RPC | RPC: Remote Procedure Call Protocol Specification Version 2 | 1831 |
| ----- | The ESP DES-CBC Transform | 1829 |
| ----- | Requirements for IP Version 4 Routers | 1812 |
| OSPF-DC | Extending OSPF to Support Demand Circuits | 1793 |
| MIME-EDI | MIME Encapsulation of EDI Objects | 1767 |
| ATM | ATM Signaling Support for IP over ATM | 1755 |
| IPNG | The Recommendation for the IP Next Generation Protocol | 1752 |
| MacMIME | MIME Encapsulation of Macintosh Files - MacMIME | 1740 |
| IMAP4-AUTH | IMAP4 Authentication Mechanisms | 1731 |
| RDBMS-MIB | Relational Database Management System (RDBMS) Management Information Base (MIB) using SMIV2 | 1697 |
| PPP-TRANS | PPP Reliable Transmission | 1663 |
| PPP-ISDN | PPP over ISDN | 1618 |
| PPP-X25 | PPP in X.25 | 1598 |
| RIP-DC | Extensions to RIP to Support Demand Circuits | 1582 |
| TOPT-ENVIR | Telnet Environment Option | 1572 |
| PPP-LCP | PPP LCP Extensions | 1570 |
| 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 |
| SNMP-IPX | SNMP over IPX | 1420 |
| IDENT | Identification Protocol | 1413 |
| SNMP-X.25 | SNMP MIB Extension for the X.25 Packet Layer | 1382 |
| SNMP-LAPB | SNMP MIB Extension for X.25 LAPB | 1381 |
| PPP-OSINLC | The PPP OSI Network Layer Control Protocol (OSINLCP) | 1377 |
| TOPT-RFC | Telnet Remote Flow Control Option | 1372 |
| PPP-IPCP | The PPP Internet Protocol Control Protocol (IPCP) | 1332 |
| TCP-EXT | TCP Extensions for High Performance | 1323 |
| ----- | Encoding Network Addresses to Support Operation over Non-OSI Lower Layers | 1277 |
| ICMP-ROUT | ICMP Router Discovery Messages | 1256 |
| IS-IS | Use of OSI IS-IS for routing in TCP/IP and dual environments | 1195 |
| 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 |

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| TOPT-TS | Telnet terminal speed option | 1079 |
| TOPT-NAWS | Telnet window size option | 1073 |
| TOPT-X.3 | Telnet X.3 PAD option | 1053 |
| TOPT-DATA | Telnet Data Entry Terminal option: DODIIS implementation | 1043 |
| TOPT-3270 | Telnet 3270 regime option | 1041 |
| 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 option | 726 |
| TOPT-EXT | Telnet extended ASCII option | 698 |

3.5. Best Current Practice Ordered by BCP

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

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| ----- | Address Allocation for Private Internets | 1918 | 5 |
| ----- | Guidelines for creation, selection, and registration of an Autonomous System (AS) | 1930 | 6 |
| ----- | Implications of Various Address Allocation Policies for Internet Routing | 2008 | 7 |
| ----- | IRTF Research Group Guidelines and Procedures | 2014 | 8 |
| ----- | The Internet Standards Process -- Revision 3 | 2026 | 9 |
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| ----- | The Organizations Involved in the IETF Standards Process | 2028 | 11 |
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| ----- | Key words for use in RFCs to Indicate Requirement Levels | 2119 | 14 |
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| ----- | 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 Response | 2350 | 21 |
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| ----- | Implications of Various Address Allocation Policies for Internet Routing | 7 2008 |
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3.7. Experimental Protocols

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| ----- | The Dynamic Source Routing Protocol (DSR) for Mobile Ad Hoc Networks for IPv4 | 4728* |
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| ----- | TCP-Friendly Multicast Congestion Control (TFMCC): Protocol Specification | 4654* |
| ----- | Improving the Robustness of TCP to Non-Congestion Events | 4653* |
| ----- | Experiment in Long-Term Suspensions From Internet Engineering Task Force (IETF) Mailing Lists | 4633* |
| ----- | Multicast Source Discovery Protocol (MSDP) MIB | 4624* |
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| ----- | NEC's Simple Middlebox Configuration (SIMCO) Protocol Version 3.0 | 4540* |
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| ----- | Web Distributed Authoring and Versioning (WebDAV) Redirect Reference Resources | 4437* |
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| ----- | Sender Policy Framework (SPF) for Authorizing Use of Domains in E-Mail, Version 1 | 4408* |
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| TFTP-MULTI | TFTP Multicast Option | 2090 |
| IP-Echo | IP Echo Host Service | 2075 |
| TOPT-CHARS | TELNET CHARSET Option | 2066 |
| URAS | Uniform Resource Agents (URAs) | 2016 |
| GPS-AR | GPS-Based Addressing and Routing | 2009 |
| ETFTP | Experiments with a Simple File Transfer Protocol for Radio Links using Enhanced Trivial File Transfer Protocol (ETFTP) | 1986 |
| SMKD | Scalable Multicast Key Distribution | 1949 |
| DNS-LOC | A Means for Expressing Location Information in the Domain Name System | 1876 |
| SGML-MT | SGML Media Types | 1874 |
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| ----- | Using the Domain Name System To Store Arbitrary String Attributes | 1464 |
| IRCP | Internet Relay Chat Protocol | 1459 |
| SIFT | SIFT/UFT: Sender-Initiated/Unsolicited File Transfer | 1440 |
| DIR-ARP | Directed ARP | 1433 |
| TEL-SPX | Telnet Authentication: SPX | 1412 |
| TEL-KER | Telnet Authentication: Kerberos Version 4 | 1411 |
| 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: Version 1 | 1241 |
| CLNS-MIB | CLNS MIB for use with Connectionless Network Protocol (ISO 8473) and End System to Intermediate System (ISO 9542) | 1238 |
| CFDP | Coherent File Distribution Protocol | 1235 |
| IP-AX.25 | Internet protocol encapsulation of AX.25 frames | 1226 |
| ALERTS | Techniques for managing asynchronously generated alerts | 1224 |
| MPP | Message Posting Protocol (MPP) | 1204 |
| SNMP-BULK | Bulk Table Retrieval with the SNMP | 1187 |
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| IMAP2 | Interactive Mail Access Protocol: Version 2 | 1176 |

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| DMF-MAIL | Digest message format | 1153 |
| RDP | Version 2 of the Reliable Data Protocol (RDP) | 1151 |
| ----- | Standard for the transmission of IP datagrams on avian carriers | 1149 |
| TCP-ACO | TCP alternate checksum options | 1146 |
| ----- | The Q Method of Implementing TELNET Option Negotiation | 1143 |
| IP-DVMRP | Distance Vector Multicast Routing Protocol | 1075 |
| VMTP | VMTP: Versatile Message Transaction Protocol | 1045 |
| COOKIE-JAR | Distributed-protocol authentication scheme | 1004 |
| NETBLT | NETBLT: A bulk data transfer protocol | 998 |
| IRTP | Internet Reliable Transaction Protocol functional and interface specification | 938 |
| LDP | Loader Debugger Protocol | 909 |
| RDP | Reliable Data Protocol | 908 |
| RLP | Resource Location Protocol | 887 |

4. Security Considerations

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

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