

INFORMATIONAL)

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[2466 Management Information Base for IP Version 6: ICMPv6 Group](#) D. Haskin, S. Onishi [December 1998] (TXT = 27547 bytes)(Obsoleted by [RFC4293](#)) (Status: PROPOSED STANDARD)

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[2458](#) **Toward the PSTN/Internet Inter-Networking--Pre-PINT Implementations** H. Lu, M. Krishnaswamy, L. Conroy, S. Bellovin, F. Burg, A. DeSimone, K. Tewani, P. Davidson, H. Schulzrinne, K. Vishwanathan [November 1998] (TXT = 139100 bytes) (Status: INFORMATIONAL)

[2457](#) **Definitions of Managed Objects for Extended Border Node** B. Clouston, B. Moore [November 1998] (TXT = 54380 bytes) (Status: PROPOSED STANDARD)

[2456](#) **Definitions of Managed Objects for APPN TRAPS** B. Clouston, B. Moore [November 1998] (TXT = 44023 bytes) (Status: PROPOSED STANDARD)

[2455](#) **Definitions of Managed Objects for APPN** B. Clouston, B. Moore [November 1998] (TXT = 251061 bytes)(Obsoletes [RFC2155](#)) (Status: PROPOSED STANDARD)

[2454](#) **IP Version 6 Management Information Base for the User Datagram Protocol** M. Daniele [December 1998] (TXT = 15862 bytes)(Obsoleted by [RFC4113](#)) (Status: HISTORIC)

[2453](#) **RIP Version 2** G. Malkin [November 1998] (TXT = 98462 bytes)(Obsoletes [RFC1723](#)) (Updated by [RFC4822](#)) (Also [STD0056](#)) (Status: STANDARD)

[2452](#) **IP Version 6 Management Information Base for the Transmission Control Protocol** M. Daniele [December 1998] (TXT = 19066 bytes)(Obsoleted by [RFC4022](#)) (Status: PROPOSED STANDARD)

[2451](#) **The ESP CBC-Mode Cipher Algorithms** R. Pereira, R. Adams [November 1998] (TXT = 26400 bytes) (Status: PROPOSED STANDARD)

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[2449](#) **POP3 Extension Mechanism** R. Gellens, C. Newman, L. Lundblade [November 1998] (TXT = 36017 bytes)(Updates [RFC1939](#)) (Updated by [RFC5034](#)) (Status: PROPOSED STANDARD)

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[2441](#) **Working with Jon, Tribute delivered at UCLA, October 30, 1998** D. Cohen [November 1998] (TXT = 11992 bytes) (Status: INFORMATIONAL)

[2440](#) **OpenPGP Message Format** J. Callas, L. Donnerhacke, H. Finney, R. Thayer [November 1998] (TXT = 141371 bytes)(Obsoleted by [RFC4880](#)) (Status: PROPOSED STANDARD)

[2439](#) **BGP Route Flap Damping** C. Villamizar, R. Chandra, R. Govindan [November 1998] (TXT = 86376 bytes) (Status: PROPOSED STANDARD)

[2438](#) **Advancement of MIB specifications on the IETF Standards Track** M. O'Dell, H. Alvestrand, B. Wijnen, S. Bradner [October 1998] (TXT = 13633 bytes)(Also [BCP0027](#)) (Status: BEST CURRENT PRACTICE)

[2437](#) **PKCS #1: RSA Cryptography Specifications Version 2.0** B. Kaliski, J. Staddon [October 1998] (TXT = 73529 bytes)(Obsoletes [RFC2313](#)) (Obsoleted by [RFC3447](#)) (Status: INFORMATIONAL)

[2436](#) **Collaboration between ISOC/IETF and ITU-T** R. Brett, S. Bradner, G. Parsons [October 1998] (TXT = 31154 bytes)(Obsoleted by [RFC3356](#)) (Status: INFORMATIONAL)

[2435](#) **RTP Payload Format for JPEG-compressed Video** L. Berc, W. Fenner, R. Frederick, S. McCanne, P. Stewart [October 1998] (TXT = 54173 bytes)(Obsoletes [RFC2035](#)) (Status: PROPOSED STANDARD)

[2434](#) **Guidelines for Writing an IANA Considerations Section in RFCs** T. Narten, H. Alvestrand [October 1998] (TXT = 25092 bytes)(Obsoleted by [RFC5226](#)) (Updated by [RFC3692](#)) (Status: BEST CURRENT PRACTICE)

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[2430](#) **A Provider Architecture for Differentiated Services and Traffic Engineering (PASTE)** T. Li, Y. Rekhter [October 1998] (TXT = 40148 bytes) (Status: INFORMATIONAL)

[2429](#) **RTP Payload Format for the 1998 Version of ITU-T Rec. H.263 Video (H.263+)** C. Bormann, L. Cline, G. Deisher, T. Gardos, C. Maciocco, D. Newell, J. Ott, G. Sullivan, S. Wenger, C. Zhu [October 1998] (TXT = 43166 bytes)(Obsoleted by [RFC4629](#)) (Status: PROPOSED STANDARD)

[2428](#) **FTP Extensions for IPv6 and NATs** M. Allman, S. Ostermann, C. Metz [September 1998] (TXT = 16028 bytes) (Status: PROPOSED STANDARD)

[2427](#) **Multiprotocol Interconnect over Frame Relay** C. Brown, A. Malis [September 1998] (TXT = 74671 bytes)(Obsoletes [RFC1490](#), [RFC1294](#)) (Also [STD0055](#)) (Status: STANDARD)

[2426](#) **vCard MIME Directory Profile** F. Dawson, T. Howes [September 1998] (TXT = 74646 bytes) (Status: PROPOSED STANDARD)

[2425](#) **A MIME Content-Type for Directory Information** T. Howes, M. Smith, F. Dawson [September 1998] (TXT = 64478 bytes) (Status: PROPOSED STANDARD)

[2424](#) **Content Duration MIME Header Definition** G. Vaudreuil, G. Parsons [September 1998] (TXT = 7116 bytes)(Obsoleted by [RFC3803](#)) (Status: PROPOSED STANDARD)

[2423](#) **VPIM Voice Message MIME Sub-type Registration** G. Vaudreuil, G. Parsons [September 1998] (TXT = 10729 bytes)(Obsoletes [RFC1911](#)) (Obsoleted by [RFC3801](#)) (Status: PROPOSED STANDARD)

[2422](#) **Toll Quality Voice - 32 kbit/s ADPCM MIME Sub-type Registration** G. Vaudreuil, G. Parsons [September 1998] (TXT = 10157 bytes)(Obsoletes [RFC1911](#)) (Obsoleted by [RFC3802](#)) (Status: PROPOSED STANDARD)

[2421](#) **Voice Profile for Internet Mail - version 2** G. Vaudreuil, G. Parsons [September 1998] (TXT = 123663 bytes)(Obsoletes [RFC1911](#)) (Obsoleted by [RFC3801](#)) (Status: PROPOSED STANDARD)

[2420](#) **The PPP Triple-DES Encryption Protocol (3DESE)** H. Kummert [September 1998] (TXT = 16729 bytes) (Status: PROPOSED STANDARD)

[2419](#) **The PPP DES Encryption Protocol, Version 2 (DESE-bis)** K. Sklower, G. Meyer [September 1998] (TXT = 24414 bytes)(Obsoletes [RFC1969](#)) (Status: PROPOSED STANDARD)

[2418](#) **IETF Working Group Guidelines and Procedures** S. Bradner [September 1998] (TXT = 62857 bytes)(Obsoletes [RFC1603](#)) (Updated by [RFC3934](#)) (Also [BCP0025](#)) (Status: BEST CURRENT PRACTICE)

[2417](#) **Definitions of Managed Objects for Multicast over UNI 3.0/3.1 based ATM Networks** C. Chung, M. Greene [September 1998] (TXT = 134862 bytes)(Obsoletes [RFC2366](#)) (Status: PROPOSED STANDARD)

[2416](#) **When TCP Starts Up With Four Packets Into Only Three Buffers** T. Shepard, C. Partridge [September 1998] (TXT = 12663 bytes) (Status: INFORMATIONAL)

[2415](#) **Simulation Studies of Increased Initial TCP Window Size** K. Poduri, K. Nichols [September 1998] (TXT = 24205 bytes) (Status: INFORMATIONAL)

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[2397](#) **IPsec Encapsulating Security Payload (ESP) Ciphers, ESP Ciphers** [November 1998] (TXT = 5757 bytes)(Obsoletes [RFC1827](#)) (Obsoleted by [RFC4306](#)) (Status: PROPOSED STANDARD)

[2408](#) **Internet Security Association and Key Management Protocol (ISAKMP)** D. Maughan, M. Schertler, M. Schneider, J. Turner [November 1998] (TXT = 209175 bytes) (Obsoleted by [RFC4306](#)) (Status: PROPOSED STANDARD)

[2407](#) **The Internet IP Security Domain of Interpretation for ISAKMP** D. Piper [November 1998] (TXT = 67878 bytes)(Obsoletes [RFC4306](#)) (Status: PROPOSED STANDARD)

[2406](#) **IP Encapsulating Security Payload (ESP)** S. Kent, R. Atkinson [November 1998] (TXT = 54202 bytes)(Obsoletes [RFC1827](#)) (Obsoleted by [RFC4303](#), [RFC4305](#)) (Status: PROPOSED STANDARD)

[2405](#) **The ESP DES-CBC Cipher Algorithm With Explicit IV** C. Madson, N. Doraswamy [November 1998] (TXT = 20208 bytes) (Status: PROPOSED STANDARD)

[2404](#) **The Use of HMAC-SHA-1-96 within ESP and AH** C. Madson, R. Glenn [November 1998] (TXT = 13089 bytes) (Status: PROPOSED STANDARD)

[2403](#) **The Use of HMAC-MD5-96 within ESP and AH** C. Madson, R. Glenn [November 1998] (TXT = 13578 bytes) (Status: PROPOSED STANDARD)

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[2363](#) **PPP Over FUNI** G. Gross, M. Kaycee, A. Li, A. Malis, J. Stephens [July 1998] (TXT = 22576 bytes) (Status: PROPOSED STANDARD)

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2286 Test Cases for HMAC-RIPEND160 and HMAC-RIPEND128 J. Kapp [February 1998] (TXT = 11849 bytes) (Status: INFORMATIONAL)

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[2019 Transmission of IPv6 Packets Over FDDI](#) M. Crawford [October 1996] (TXT = 12344 bytes)(Obsoleted by [RFC2467](#)) (Status: PROPOSED STANDARD)
[2018 TCP Selective Acknowledgment Options](#) M. Mathis, J. Mahdavi, S. Floyd, A. Romanow [October 1996] (TXT = 25671 bytes)(Obsoletes [RFC1072](#)) (Status: PROPOSED STANDARD)
[2017 Definition of the URL MIME External-Body Access-Type](#) N. Freed, K. Moore, A. Cargille [October 1996] (TXT = 9000 bytes) (Status: PROPOSED STANDARD)
[2016 Uniform Resource Agents \(URAs\)](#) L. Daigle, P. Deutsch, B. Heelan, C. Alpaugh, M. MacLachlan [October 1996] (TXT = 38355 bytes) (Status: EXPERIMENTAL)
[2015 MIME Security with Pretty Good Privacy \(PGP\)](#) M. Elkins [October 1996] (TXT = 14223 bytes)(Updated by [RFC3156](#)) (Status: PROPOSED STANDARD)
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[2013 SNMPv2 Management Information Base for the User Datagram Protocol using SMIPv2](#) K. McCloghrie, Ed. [November 1996] (TXT = 9333 bytes)(Obsoleted by [RFC4113](#)) (Updates [RFC1213](#)) (Status: PROPOSED STANDARD)
[2012 SNMPv2 Management Information Base for the Transmission Control Protocol using SMIPv2](#) K. McCloghrie, Ed. [November 1996] (TXT = 16792 bytes) (Obsoleted by [RFC4022](#)) (Updates [RFC1213](#)) (Status: PROPOSED STANDARD)
[2011 SNMPv2 Management Information Base for the Internet Protocol using SMIPv2](#) K. McCloghrie, Ed. [November 1996] (TXT = 31168 bytes)(Obsoleted by [RFC4293](#)) (Updates [RFC1213](#)) (Status: PROPOSED STANDARD)
[2010 Operational Criteria for Root Name Servers](#) B. Manning, P. Vixie [October 1996] (TXT = 14870 bytes)(Obsoleted by [RFC2870](#)) (Status: INFORMATIONAL)
[2009 GPS-Based Addressing and Routing](#) T. Imielinski, J. Navas [November 1996] (TXT = 66229 bytes) (Status: EXPERIMENTAL)
[2008 Implications of Various Address Allocation Policies for Internet Routing](#) Y. Rekhter, T. Li [October 1996] (TXT = 34717 bytes)(Also [BCP0007](#)) (Status: BEST CURRENT PRACTICE)
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- 1944 Benchmarking Methodology for Network Interconnect Devices** S. Bradner, J. McQuaid [May 1996] (TXT = 66061 bytes)(Obsoleted by [RFC2544](#)) (Status: INFORMATIONAL)
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- 1941 Frequently Asked Questions for Schools** J. Sellers, J. Robichaux [May 1996] (TXT = 150980 bytes)(Obsoletes [RFC1578](#)) (Also [FYI0022](#)) (Status: INFORMATIONAL)
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[1871 Addendum to RFC 1602 -- Variance Procedure](#) J. Postel [November 1995] (TXT = 7747 bytes)(Obsoleted by [RFC2026](#)) (Updates [RFC1602](#), [RFC1603](#)) (Status: HISTORIC)
[1870 SMTP Service Extension for Message Size Declaration](#) J. Klensin, N. Freed, K. Moore [November 1995] (TXT = 18226 bytes)(Obsoletes [RFC1653](#)) (Also [STD0010](#)) (Status: STANDARD)
[1869 SMTP Service Extensions](#) J. Klensin, N. Freed, M. Rose, E. Stefferud, D. Crocker [November 1995] (TXT = 23299 bytes)(Obsoletes [RFC1651](#)) (Obsoleted by [RFC2821](#)) (Also [STD0010](#)) (Status: STANDARD)
[1868 ARP Extension - UNARP](#) G. Malkin [November 1995] (TXT = 7681 bytes) (Status: EXPERIMENTAL)
[1867 Form-based File Upload in HTML](#) E. Nebel, L. Masinter [November 1995] (TXT = 26183 bytes)(Obsoleted by [RFC2854](#)) (Status: HISTORIC)
[1866 Hypertext Markup Language - 2.0](#) T. Berners-Lee, D. Connolly [November 1995] (TXT = 146904 bytes)(Obsoleted by [RFC2854](#)) (Status: HISTORIC)
[1865 EDI Meets the Internet Frequently Asked Questions about Electronic Data Interchange \(EDI\) on the Internet](#) W. Houser, J. Griffin, C. Hage [January 1996] (TXT = 98361 bytes) (Status: INFORMATIONAL)
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[1862 Report of the IAB Workshop on Internet Information Infrastructure, October 12-14, 1994](#) M. McCahill, J. Romkey, M. Schwartz, K. Sollins, T. Verschuren, C. Weider [November 1995] (TXT = 62483 bytes) (Status: INFORMATIONAL)
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[1857 A Model for Common Operational Statistics](#) M. Lambert [October 1995] (TXT = 55314 bytes)(Obsoletes [RFC1404](#)) (Status: INFORMATIONAL)
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[1851 The ESP Triple DES Transform](#) P. Karn, P. Metzger, W. Simpson [September 1995] (TXT = 20000 bytes) (Status: EXPERIMENTAL)
[1850 OSPF Version 2 Management Information Base](#) F. Baker, R. Coltun [November 1995] (TXT = 140255 bytes)(Obsoletes [RFC1253](#)) (Obsoleted by [RFC4750](#)) (Status: DRAFT STANDARD)
1849 Not Issued.
[1848 MIME Object Security Services](#) S. Crocker, N. Freed, J. Galvin, S. Murphy [October 1995] (TXT = 95010 bytes) (Status: HISTORIC)
[1847 Security Multiparts for MIME: Multipart/Signed and Multipart/Encrypted](#) J. Galvin, S. Murphy, S. Crocker, N. Freed [October 1995] (TXT = 23679 bytes) (Status: PROPOSED STANDARD)
[1846 SMTP 521 Reply Code](#) A. Durand, F. Dupont [September 1995] (TXT = 6558 bytes) (Status: EXPERIMENTAL)
[1845 SMTP Service Extension for Checkpoint/Restart](#) D. Crocker, N. Freed, A. Cargille [September 1995] (TXT = 15399 bytes) (Status: EXPERIMENTAL)
[1844 Multimedia E-mail \(MIME\) User Agent Checklist](#) E. Huizer [August 1995] (TXT = 15072 bytes)(Obsoletes [RFC1820](#)) (Status: INFORMATIONAL)
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[1842 ASCII Printable Characters-Based Chinese Character Encoding for Internet Messages](#) Y. Wei, Y. Zhang, J. Li, J. Ding, Y. Jiang [August 1995] (TXT = 24143 bytes) (Status: INFORMATIONAL)
[1841 PPP Network Control Protocol for LAN Extension](#) J. Chapman, D. Coli, A. Harvey, B. Jensen, K. Rowett [September 1995] (TXT = 146206 bytes) (Status: INFORMATIONAL)
1840 Not Issued.
1839 Not Issued.
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[1818 Best Current Practices](#) J. Postel, T. Li, Y. Rekhter [August 1995] (TXT = 4114 bytes) (Status: HISTORIC)
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[1803 Recommendations for an X.500 Production Directory Service](#) R. Wright, A. Getchell, T. Howes, S. Sataluri, P. Yee, W. Yeong [June 1995] (TXT = 14721 bytes) (Status: INFORMATIONAL)
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[1798 Connection-less Lightweight X.500 Directory Access Protocol](#) A. Young [June 1995] (TXT = 18548 bytes)(Obsoleted by [RFC3352](#)) (Status: HISTORIC)
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[1785 TFTP Option Negotiation Analysis](#) G. Malkin, A. Harkin [March 1995] (TXT = 3354 bytes)(Updates [RFC1350](#)) (Status: INFORMATIONAL)
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1724 RIP Version 2 MIB Extension G. Malkin, F. Baker [November 1994] (TXT = 29645 bytes)(Obsoletes [RFC1389](#)) (Status: DRAFT STANDARD)

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1722 RIP Version 2 Protocol Applicability Statement G. Malkin [November 1994] (TXT = 10236 bytes)(Also [STD0057](#)) (Status: STANDARD)

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[1716 Towards Requirements for IP Routers](#) P. Almquist, F. Kastenholz [November 1994] (TXT = 432330 bytes)(Obsoleted by [RFC1812](#)) (Status: INFORMATIONAL)
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[1658](#) **Definitions of Managed Objects for Character Stream Devices using SMIPv2** B. Stewart [July 1994] (TXT = 32579 bytes)(Obsoletes [RFC1316](#)) (Status: DRAFT STANDARD)

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[1656](#) **BGP-4 Protocol Document Roadmap and Implementation Experience** P. Traina [July 1994] (TXT = 7705 bytes)(Obsoleted by [RFC1773](#)) (Status: INFORMATIONAL)

[1655](#) **Application of the Border Gateway Protocol in the Internet** Y. Rekhter, P. Gross, Eds. [July 1994] (TXT = 43664 bytes)(Obsoletes [RFC1268](#)) (Obsoleted by [RFC1772](#)) (Status: PROPOSED STANDARD)

[1654](#) **A Border Gateway Protocol 4 (BGP-4)** Y. Rekhter, T. Li, Eds. [July 1994] (TXT = 130118 bytes)(Obsoleted by [RFC1771](#)) (Status: PROPOSED STANDARD)

[1653](#) **SMTP Service Extension for Message Size Declaration** J. Klensin, N. Freed, K. Moore [July 1994] (TXT = 17883 bytes)(Obsoletes [RFC1427](#)) (Obsoleted by [RFC1870](#)) (Status: DRAFT STANDARD)

[1652](#) **SMTP Service Extension for 8bit-MIMEtransport** J. Klensin, N. Freed, M. Rose, E. Stefferud, D. Crocker [July 1994] (TXT = 11842 bytes)(Obsoletes [RFC1426](#)) (Status: DRAFT STANDARD)

[1651](#) **SMTP Service Extensions** J. Klensin, N. Freed, M. Rose, E. Stefferud, D. Crocker [July 1994] (TXT = 22153 bytes)(Obsoletes [RFC1425](#)) (Obsoleted by [RFC1869](#)) (Status: DRAFT STANDARD)

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[1637](#) **DNS NSAP Resource Records** B. Manning, R. Colella [June 1994] (TXT = 21768 bytes)(Obsoletes [RFC1348](#)) (Obsoleted by [RFC1706](#)) (Status: EXPERIMENTAL)

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[1564 DSA Metrics \(OSI-DS 34 \(v3\)\)](#) P. Barker, R. Hedberg [January 1994] (TXT = 46205 bytes) (Status: INFORMATIONAL)

[1563 The text/enriched MIME Content-type](#) N. Borenstein [January 1994] (TXT, PS, PDF = 32913, 73543, 37459 bytes)(Obsoletes [RFC1523](#)) (Obsoleted by [RFC1896](#)) (Status: INFORMATIONAL)

[1562 Naming Guidelines for the AARNet X.500 Directory Service](#) G. Michaelson, M. Prior [December 1993] (TXT = 6884 bytes) (Status: INFORMATIONAL)

[1561 Use of ISO CLNP in TUBA Environments](#) D. Piscitello [December 1993] (TXT = 55902 bytes) (Status: EXPERIMENTAL)

[1560 The MultiProtocol Internet](#) B. Leiner, Y. Rekhter [December 1993] (TXT = 16651 bytes) (Status: INFORMATIONAL)

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[1556 Handling of Bi-directional Texts in MIME](#) H. Nussbacher [December 1993] (TXT = 5602 bytes) (Status: INFORMATIONAL)

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[1553 Compressing IPX Headers Over WAN Media \(CIPX\)](#) S. Mathur, M. Lewis [December 1993] (TXT = 47450 bytes) (Status: HISTORIC)

[1552 The PPP Internetworking Packet Exchange Control Protocol \(IPXCP\)](#) W. Simpson [December 1993] (TXT = 29173 bytes) (Status: HISTORIC)

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[1549 PPP in HDLC Framing](#) W. Simpson, Ed. [December 1993] (TXT = 36352 bytes)(Obsoletes [RFC1662](#)) (Status: DRAFT STANDARD)

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[1544 The Content-MD5 Header Field](#) M. Rose [November 1993] (TXT = 6478 bytes)(Obsoletes [RFC1864](#)) (Status: PROPOSED STANDARD)

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[1541 Dynamic Host Configuration Protocol](#) R. Droms [October 1993] (TXT = 96950 bytes)(Obsoletes [RFC1531](#)) (Obsoletes [RFC2131](#)) (Status: PROPOSED STANDARD)

[1540 Internet Official Protocol Standards](#) J. Postel [October 1993] (TXT = 75496 bytes)(Obsoletes [RFC1500](#)) (Obsoletes [RFC1600](#)) (Status: HISTORIC)

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[1538 Advanced SNA/IP: A Simple SNA Transport Protocol](#) W. Behl, B. Sterling, W. Teskey [October 1993] (TXT = 21217 bytes) (Status: INFORMATIONAL)

[1537 Common DNS Data File Configuration Errors](#) P. Beertema [October 1993] (TXT = 19825 bytes)(Obsoletes [RFC1912](#)) (Status: INFORMATIONAL)

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[1530 Principles of Operation for the TPC.INT Subdomain: General Principles and Policy](#) C. Malamud, M. Rose [October 1993] (TXT = 15031 bytes) (Status: INFORMATIONAL)

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[1527 What Should We Plan Given the Dilemma of the Network?](#) G. Cook [September 1993] (TXT = 46935 bytes) (Status: INFORMATIONAL)

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[1525 Definitions of Managed Objects for Source Routing Bridges](#) E. Decker, K. McCloghrie, P. Langille, A. Rijssinghani [September 1993] (TXT = 38100 bytes)(Obsoletes [RFC1286](#)) (Status: HISTORIC)

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[1521 MIME \(Multipurpose Internet Mail Extensions\) Part One: Mechanisms for Specifying and Describing the Format of Internet Message Bodies](#) N. Borenstein, N. Freed [September 1993] (TXT, PS, PDF = 187424, 393670, 205091 bytes)(Obsoletes [RFC1341](#)) (Obsoletes [RFC2045](#), [RFC2046](#), [RFC2047](#), [RFC2048](#), [RFC2049](#)) (Updated by [RFC1590](#)) (Status: DRAFT STANDARD)

[1520 Exchanging Routing Information Across Provider Boundaries in the CIDR Environment](#) Y. Rekhter, C. Topolcic [September 1993] (TXT = 20389 bytes) (Status: HISTORIC)

[1519 Classless Inter-Domain Routing \(CIDR\): an Address Assignment and Aggregation Strategy](#) V. Fuller, T. Li, J. Yu, K. Varadhan [September 1993] (TXT = 59998 bytes)(Obsoletes [RFC1338](#)) (Obsoletes [RFC4632](#)) (Status: PROPOSED STANDARD)

[1518 An Architecture for IP Address Allocation with CIDR](#) Y. Rekhter, T. Li [September 1993] (TXT = 72609 bytes) (Status: HISTORIC)

[1517 Applicability Statement for the Implementation of Classless Inter-Domain Routing \(CIDR\)](#) Internet Engineering Steering Group, R. Hinden [September 1993] (TXT = 7357 bytes) (Status: HISTORIC)

[1516 Definitions of Managed Objects for IEEE 802.3 Repeater Devices](#) D. McMaster, K. McCloghrie [September 1993] (TXT = 82918 bytes)(Obsoletes [RFC1368](#)) (Obsoletes [RFC2108](#)) (Status: DRAFT STANDARD)

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[1514 Host Resources MIB](#) P. Grillo, S. Waldbusser [September 1993] (TXT = 63775 bytes)(Obsoletes [RFC2790](#)) (Status: PROPOSED STANDARD)

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[1499 Summary of 1400-1499](#) J. Elliott [January 1997] (TXT = 40923 bytes) (Status: INFORMATIONAL)

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[1496 Rules for downgrading messages from X.400/88 to X.400/84 when MIME content-types are present in the messages](#) H. Alvestrand, J. Romaguera, K. Jordan [August 1993] (TXT = 8411 bytes) (Status: HISTORIC)

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[1489 Registration of a Cyrillic Character Set](#) A. Chernov [July 1993] (TXT = 7798 bytes) (Status: INFORMATIONAL)

[1488 The X.500 String Representation of Standard Attribute Syntaxes](#) T. Howes, S. Kille, W. Yeong, C. Robbins [July 1993] (TXT = 17182 bytes)(Obsoleted by [RFC1778](#)) (Status: PROPOSED STANDARD)

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[1467 Status of CIDR Deployment in the Internet](#) C. Topolcic [August 1993] (TXT = 20720 bytes)(Obsoletes [RFC1367](#)) (Status: HISTORIC)

[1466 Guidelines for Management of IP Address Space](#) E. Gerich [May 1993] (TXT = 22262 bytes)(Obsoletes [RFC1366](#)) (Obsoleted by [RFC2050](#)) (Status: INFORMATIONAL)

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[1452 Coexistence between version 1 and version 2 of the Internet-standard Network Management Framework](#) J. Case, K. McCloghrie, M. Rose, S. Waldbusser [April 1993] (TXT = 32176 bytes)(Obsoleted by [RFC1908](#)) (Status: PROPOSED STANDARD)

[1451 Manager-to-Manager Management Information Base](#) J. Case, K. McCloghrie, M. Rose, S. Waldbusser [April 1993] (TXT = 62935 bytes) (Status: HISTORIC)

[1450 Management Information Base for version 2 of the Simple Network Management Protocol \(SNMPv2\)](#) J. Case, K. McCloghrie, M. Rose, S. Waldbusser [April 1993] (TXT = 42172 bytes)(Obsoleted by [RFC1907](#)) (Status: PROPOSED STANDARD)

[1449 Transport Mappings for version 2 of the Simple Network Management Protocol \(SNMPv2\)](#) J. Case, K. McCloghrie, M. Rose, S. Waldbusser [April 1993] (TXT =

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[1448 Protocol Operations for version 2 of the Simple Network Management Protocol \(SNMPv2\)](#) J. Case, K. McCloghrie, M. Rose, S. Waldbusser [April 1993] (TXT = 74224 bytes)(Obsoleted by [RFC1905](#)) (Status: PROPOSED STANDARD)

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[1428 Transition of Internet Mail from Just-Send-8 to 8bit-SMTP/MIME](#) G. Vaudreuil [February 1993] (TXT = 12064 bytes) (Status: INFORMATIONAL)

[1427 SMTP Service Extension for Message Size Declaration](#) J. Klensin, WG Chair, N. Freed, Ed., K. Moore [February 1993] (TXT = 17856 bytes)(Obsoleted by [RFC1653](#)) (Status: PROPOSED STANDARD)

[1426 SMTP Service Extension for 8bit-MIMEtransport](#) J. Klensin, WG Chair, N. Freed, Ed., M. Rose, E. Stefferud, D. Crocker [February 1993] (TXT = 11661 bytes) (Obsoleted by [RFC1652](#)) (Status: PROPOSED STANDARD)

[1425 SMTP Service Extensions](#) J. Klensin, WG Chair, N. Freed, Ed., M. Rose, E. Stefferud, D. Crocker [February 1993] (TXT = 20932 bytes)(Obsoleted by [RFC1651](#)) (Status: PROPOSED STANDARD)

[1424 Privacy Enhancement for Internet Electronic Mail: Part IV](#) B. Kaliski [February 1993] (TXT = 17537 bytes) (Status: HISTORIC)

[1423 Privacy Enhancement for Internet Electronic Mail: Part III](#) D. Balenson [February 1993] (TXT = 33277 bytes)(Obsoletes [RFC1115](#)) (Status: HISTORIC)

[1422 Privacy Enhancement for Internet Electronic Mail: Part II](#) S. Kent [February 1993] (TXT = 86085 bytes)(Obsoletes [RFC1114](#)) (Status: HISTORIC)

[1421 Privacy Enhancement for Internet Electronic Mail: Part I](#) J. Linn [February 1993] (TXT = 103894 bytes)(Obsoletes [RFC1113](#)) (Status: HISTORIC)

[1420 SNMP over IPX](#) S. Bostock [March 1993] (TXT = 6762 bytes)(Obsoletes [RFC1298](#)) (Status: PROPOSED STANDARD)

[1419 SNMP over AppleTalk](#) G. Minshall, M. Ritter [March 1993] (TXT = 16470 bytes) (Status: HISTORIC)

[1418 SNMP over OSI](#) M. Rose [March 1993] (TXT = 7721 bytes)(Obsoletes [RFC1161](#), [RFC1283](#)) (Status: HISTORIC)

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[1416 Telnet Authentication Option](#) D. Borman, Ed. [February 1993] (TXT = 13270 bytes)(Obsoletes [RFC1409](#)) (Obsoleted by [RFC2941](#)) (Status: EXPERIMENTAL)

[1415 FTP-FTAM Gateway Specification](#) J. Mindel, R. Slaski [January 1993] (TXT = 128261 bytes) (Status: HISTORIC)

[1414 Identification MIB](#) M. St. Johns, M. Rose [February 1993] (TXT = 14165 bytes) (Status: HISTORIC)

[1413 Identification Protocol](#) M. St. Johns [February 1993] (TXT = 16291 bytes)(Obsoletes [RFC0931](#)) (Status: PROPOSED STANDARD)

[1412 Telnet Authentication: SPX](#) K. Alagappan [January 1993] (TXT = 6952 bytes) (Status: EXPERIMENTAL)

[1411 Telnet Authentication: Kerberos Version 4](#) D. Borman, Ed. [January 1993] (TXT = 7967 bytes) (Status: EXPERIMENTAL)

[1410 IAB Official Protocol Standards](#) J. Postel, Ed. [March 1993] (TXT = 76524 bytes)(Obsoletes [RFC1360](#)) (Obsoleted by [RFC1500](#)) (Status: HISTORIC)

[1409 Telnet Authentication Option](#) D. Borman, Ed. [January 1993] (TXT = 13119 bytes)(Obsoleted by [RFC1416](#)) (Status: EXPERIMENTAL)

[1408 Telnet Environment Option](#) D. Borman, Ed. [January 1993] (TXT = 13936 bytes)(Updated by [RFC1571](#)) (Status: HISTORIC)

[1407 Definitions of Managed Objects for the DS3/E3 Interface Type](#) T. Cox, K. Tesink [January 1993] (TXT = 90682 bytes)(Obsoletes [RFC1233](#)) (Obsoleted by [RFC2496](#)) (Status: PROPOSED STANDARD)

[1406 Definitions of Managed Objects for the DS1 and E1 Interface Types](#) F. Baker, J. Watt, Eds. [January 1993] (TXT = 97559 bytes)(Obsoletes [RFC1232](#)) (Obsoleted by [RFC2495](#)) (Status: PROPOSED STANDARD)

[1405 Mapping between X.400\(1984/1988\) and Mail-11 \(DECnet mail\)](#) C. Allocchio [January 1993] (TXT = 33885 bytes)(Obsoleted by [RFC2162](#)) (Status: EXPERIMENTAL)

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[1401 Correspondence between the IAB and DISA on the use of DNS](#) Internet Architecture Board [January 1993] (TXT = 12528 bytes) (Status: INFORMATIONAL)

[1400 Transition and Modernization of the Internet Registration Service](#) S. Williamson [March 1993] (TXT = 13008 bytes) (Status: INFORMATIONAL)

[1399 Summary of 1300-1399](#) J. Elliott [January 1997] (TXT = 43662 bytes) (Status: INFORMATIONAL)

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- [1395 BOOTP Vendor Information Extensions](#) J. Reynolds [January 1993] (TXT = 16314 bytes)(Obsoletes [RFC1084](#), [RFC1048](#)) (Obsoleted by [RFC1497](#), [RFC1533](#)) (Updates [RFC0951](#)) (Status: DRAFT STANDARD)
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- [1389 RIP Version 2 MIB Extensions](#) G. Malkin, F. Baker [January 1993] (TXT = 23569 bytes)(Obsoleted by [RFC1724](#)) (Status: PROPOSED STANDARD)
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- [1367 Schedule for IP Address Space Management Guidelines](#) C. Topolcic [October 1992] (TXT = 4780 bytes)(Obsoleted by [RFC1467](#)) (Status: INFORMATIONAL)
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- [1348 DNS NSAP RRs](#) B. Manning [July 1992] (TXT = 6871 bytes)(Obsoleted by [RFC1637](#)) (Updates [RFC1034](#), [RFC1035](#)) (Status: EXPERIMENTAL)
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[1084 BOOTP vendor information extensions](#) J.K. Reynolds [December 1988] (TXT = 16327 bytes)(Obsoletes [RFC1048](#)) (Obsoleted by [RFC1395](#), [RFC1497](#), [RFC1533](#)) (Status: UNKNOWN)

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[1066 Management Information Base for network management of TCP/IP-based internets](#) K. McCloghrie, M.T. Rose [August 1988] (TXT = 135177 bytes)(Obsoleted by [RFC1156](#)) (Status: UNKNOWN)

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[1057 RPC: Remote Procedure Call Protocol specification](#) Sun Microsystems [June 1988] (TXT = 52462 bytes)(Obsoletes [RFC1050](#)) (Status: INFORMATIONAL)

[1056 PCMAIL: A distributed mail system for personal computers](#) M.L. Lambert [June 1988] (TXT = 85368 bytes)(Obsoletes [RFC0993](#)) (Status: INFORMATIONAL)

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[1053 Telnet X.3 PAD option](#) S. Levy, T. Jacobson [April 1 1988] (TXT = 48952 bytes) (Status: PROPOSED STANDARD)

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[1036 Standard for interchange of USENET messages](#) M.R. Horton, R. Adams [December 1987] (TXT = 46891 bytes)(Obsoletes [RFC0850](#)) (Status: UNKNOWN)

[1035 Domain names - implementation and specification](#) P.V. Mockapetris [November 1987] (TXT = 125626 bytes)(Obsoletes [RFC0973](#), [RFC0882](#), [RFC0883](#)) (Updated by [RFC1101](#), [RFC1183](#), [RFC1348](#), [RFC1376](#), [RFC1876](#), [RFC1982](#), [RFC1995](#), [RFC1996](#), [RFC2065](#), [RFC2136](#), [RFC2181](#), [RFC2137](#), [RFC2308](#), [RFC2535](#), [RFC2845](#), [RFC3425](#), [RFC3658](#), [RFC4033](#), [RFC4034](#), [RFC4035](#), [RFC4343](#)) (Also [STD0013](#)) (Status: STANDARD)

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[990 Assigned numbers](#) J.K. Reynolds, J. Postel [November 1986] (TXT = 174784 bytes)(Obsoletes [RFC0960](#)) (Obsoleted by [RFC1010](#)) (Updated by [RFC0997](#)) (Status: HISTORIC)

[989 Privacy enhancement for Internet electronic mail: Part I](#) J. Linn [February 1987] (TXT = 63934 bytes)(Obsoleted by [RFC1040](#), [RFC1113](#)) (Status: UNKNOWN)

[988 Host extensions for IP multicasting](#) S.E. Deering [July 1986] (TXT = 45220 bytes)(Obsoletes [RFC0966](#)) (Obsoleted by [RFC1054](#), [RFC1112](#)) (Status: UNKNOWN)

[987 Mapping between X.400 and RFC 822](#) S.E. Kille [June 1986] (TXT = 127540 bytes)(Obsoleted by [RFC2156](#), [RFC1327](#)) (Updated by [RFC1026](#), [RFC1138](#), [RFC1148](#)) (Status: UNKNOWN)

[986 Guidelines for the use of Internet-IP addresses in the ISO Connectionless-Mode Network Protocol](#) R.W. Callon, H.W. Braun [June 1986] (TXT = 13950 bytes) (Obsoleted by [RFC1069](#)) (Status: UNKNOWN)

[985 Requirements for Internet gateways - draft](#) National Science Foundation, Network Technical Advisory Group [May 1986] (TXT = 59221 bytes)(Obsoleted by [RFC1009](#)) (Status: UNKNOWN)

[984 PCMAIL: A distributed mail system for personal computers](#) D.D. Clark, M.L. Lambert [May 1986] (TXT = 69333 bytes)(Obsoleted by [RFC0993](#)) (Status: UNKNOWN)

[983 ISO transport arrives on top of the TCP](#) D.E. Cass, M.T. Rose [April 1 1986] (TXT = 59819 bytes)(Obsoleted by [RFC1006](#)) (Status: UNKNOWN)

[982 Guidelines for the specification of the structure of the Domain Specific Part \(DSP\) of the ISO standard NSAP address](#) H.W. Braun [April 1 1986] (TXT = 22595 bytes) (Status: UNKNOWN)

[981 Experimental multiple-path routing algorithm](#) D.L. Mills [March 1986] (TXT = 59069 bytes) (Status: UNKNOWN)

[980 Protocol document order information](#) O.J. Jacobsen, J. Postel [March 1986] (TXT = 24416 bytes) (Status: UNKNOWN)

[979 PSN End-to-End functional specification](#) A.G. Malis [March 1986] (TXT = 39472 bytes) (Status: UNKNOWN)

[978 Voice File Interchange Protocol \(VFIP\)](#) J.K. Reynolds, R. Gillman, W.A. Brackenridge, A. Witkowski, J. Postel [February 1986] (TXT = 9223 bytes) (Status: UNKNOWN)

[977 Network News Transfer Protocol](#) B. Kantor, P. Lapsley [February 1986] (TXT = 55062 bytes)(Obsoleted by [RFC3977](#)) (Status: PROPOSED STANDARD)

[976 UUCP mail interchange format standard](#) M.R. Horton [February 1986] (TXT = 26814 bytes)(Updated by [RFC1137](#)) (Status: UNKNOWN)

[975 Autonomous confederations](#) D.L. Mills [February 1986] (TXT = 28010 bytes) (Status: UNKNOWN)

[974 Mail routing and the domain system](#) C. Partridge [January 1986] (TXT = 18581 bytes)(Obsoleted by [RFC2821](#)) (Also [STD0010](#)) (Status: HISTORIC)

[973 Domain system changes and observations](#) P.V. Mockapetris [January 1986] (TXT = 22364 bytes)(Obsoleted by [RFC1034](#), [RFC1035](#)) (Updates [RFC0882](#), [RFC0883](#)) (Status: UNKNOWN)

[972 Password Generator Protocol](#) F.J. Wanchow [January 1986] (TXT = 3890 bytes) (Status: UNKNOWN)

[971 Survey of data representation standards](#) A.L. DeSchon [January 1986] (TXT = 22883 bytes) (Status: UNKNOWN)

[970 On packet switches with infinite storage](#) J. Nagle [December 1985] (TXT = 35316 bytes) (Status: UNKNOWN)

[969 NETBLT: A bulk data transfer protocol](#) D.D. Clark, M.L. Lambert, L. Zhang [December 1985] (TXT = 40040 bytes)(Obsoleted by [RFC0998](#)) (Status: UNKNOWN)

[968 Twas the night before start-up](#) V.G. Cerf [December 1985] (TXT = 2459 bytes) (Status: UNKNOWN)

[967 All victims together](#) M.A. Padlinski [December 1985] (TXT = 4706 bytes) (Status: UNKNOWN)

[9666](#) **LAN Working Group: Data Linking** [December 1985] (TXT = 1700 bytes) (Status: UNKNOWN)

[9666](#) **Host groups: A multicast extension to the Internet Protocol** S.E. Deering, D.R. Cheriton [December 1985] (TXT = 59469 bytes) (Obsoleted by [RFC0988](#)) (Status: UNKNOWN)

[9665](#) **Format for a graphical communication protocol** L. Aguilar [December 1985] (TXT = 105456 bytes) (Status: UNKNOWN)

[9664](#) **Some problems with the specification of the Military Standard Transmission Control Protocol** D.P. Sidhu, T. Blumer [November 1985] (TXT = 20972 bytes) (Status: UNKNOWN)

[9663](#) **Some problems with the specification of the Military Standard Internet Protocol** D.P. Sidhu [November 1985] (TXT = 44019 bytes) (Status: UNKNOWN)

[9662](#) **TCP-4 prime** M.A. Padlipsky [November 1985] (TXT = 2773 bytes) (Status: UNKNOWN)

[9661](#) **Official ARPA-Internet protocols** J.K. Reynolds, J. Postel [December 1985] (TXT = 52672 bytes) (Obsoletes [RFC0944](#)) (Obsoleted by [RFC0991](#)) (Status: UNKNOWN)

[9660](#) **Assigned numbers** J.K. Reynolds, J. Postel [December 1985] (TXT = 125814 bytes) (Obsoletes [RFC0943](#)) (Obsoleted by [RFC0990](#)) (Status: HISTORIC)

[9659](#) **File Transfer Protocol** J. Postel, J. Reynolds [October 1985] (TXT = 147316 bytes) (Obsoletes [RFC0765](#)) (Updated by [RFC2228](#), [RFC2640](#), [RFC2773](#), [RFC3659](#)) (Also [STD0009](#)) (Status: STANDARD)

[9658](#) **Network Time Protocol (NTP)** D.L. Mills [September 1985] (TXT = 30723 bytes) (Obsoleted by [RFC1059](#), [RFC1119](#), [RFC1305](#)) (Status: UNKNOWN)

[9657](#) **Experiments in network clock synchronization** D.L. Mills [September 1985] (TXT = 68952 bytes) (Status: UNKNOWN)

[9656](#) **Algorithms for synchronizing network clocks** D.L. Mills [September 1985] (TXT = 67387 bytes) (Status: UNKNOWN)

[9655](#) **Towards a transport service for transaction processing applications** R.T. Braden [September 1985] (TXT = 22497 bytes) (Status: UNKNOWN)

[9654](#) **NICNAME/WHOIS** K. Harrenstien, M.K. Stahl, E.J. Feinler [October 1985] (TXT = 7397 bytes) (Obsoletes [RFC0812](#)) (Obsoleted by [RFC3912](#)) (Status: DRAFT STANDARD)

[9653](#) **Hostname Server** K. Harrenstien, M.K. Stahl, E.J. Feinler [October 1985] (TXT = 8305 bytes) (Obsoletes [RFC0811](#)) (Status: HISTORIC)

[9652](#) **DoD Internet host table specification** K. Harrenstien, M.K. Stahl, E.J. Feinler [October 1985] (TXT = 12388 bytes) (Obsoletes [RFC0810](#)) (Status: UNKNOWN)

[9651](#) **Bootstrap Protocol** W.J. Croft, J. Gilmore [September 1985] (TXT = 28354 bytes) (Updated by [RFC1395](#), [RFC1497](#), [RFC1532](#), [RFC1542](#)) (Status: DRAFT STANDARD)

[9650](#) **Internet Standard Subnetting Procedure** J.C. Mogul, J. Postel [August 1985] (TXT = 37985 bytes) (Updates [RFC0792](#)) (Also [STD0005](#)) (Status: STANDARD)

[9649](#) **FTP unique-named store command** M.A. Padlipsky [July 1985] (TXT = 4017 bytes) (Status: UNKNOWN)

[9648](#) **Two methods for the transmission of IP datagrams over IEEE 802.3 networks** I. Winston [June 1985] (TXT = 11495 bytes) (Obsoleted by [RFC1042](#)) (Status: UNKNOWN)

[9647](#) **Multi-network broadcasting within the Internet** K. Lebowitz, D. Mankins [June 1985] (TXT = 12569 bytes) (Status: UNKNOWN)

[9646](#) **Telnet terminal location number option** R. Nedved [May 1985] (TXT = 6285 bytes) (Status: PROPOSED STANDARD)

[9645](#) **DoD statement on the NRC report** J. Postel [May 1985] (TXT = 5017 bytes) (Obsoleted by [RFC1039](#)) (Status: UNKNOWN)

[9644](#) **Official ARPA-Internet protocols** J.K. Reynolds, J. Postel [April 1 1985] (TXT = 61373 bytes) (Obsoletes [RFC0924](#)) (Obsoleted by [RFC0961](#)) (Status: UNKNOWN)

[9643](#) **Assigned numbers** J.K. Reynolds, J. Postel [April 1 1985] (TXT = 105234 bytes) (Obsoletes [RFC0923](#)) (Obsoleted by [RFC0960](#)) (Status: HISTORIC)

[9642](#) **Transport protocols for Department of Defense data networks** National Research Council [February 1985] (TXT = 217284 bytes) (Status: UNKNOWN)

[9641](#) **Addendum to the network service definition covering network layer addressing** International Organization for Standardization [April 1 1985] (TXT = 68733 bytes) (Status: UNKNOWN)

[9640](#) **Toward an Internet standard scheme for subnetting** Gateway Algorithms and Data Structures Task Force [April 1 1985] (TXT = 6881 bytes) (Status: UNKNOWN)

[9639](#) **Executive summary of the NRC report on transport protocols for Department of Defense data networks** National Research Council [February 1985] (TXT = 42345 bytes) (Status: UNKNOWN)

[9638](#) **Internet Reliable Transaction Protocol functional and interface specification** T. Miller [February 1985] (TXT = 39478 bytes) (Status: EXPERIMENTAL)

[9637](#) **Post Office Protocol: Version 2** M. Butler, J. Postel, D. Chase, J. Goldberger, J.K. Reynolds [February 1985] (TXT = 42370 bytes) (Obsoletes [RFC0918](#)) (Status: HISTORIC)

[9636](#) **Another Internet subnet addressing scheme** M.J. Karels [February 1985] (TXT = 10179 bytes) (Status: UNKNOWN)

[9635](#) **Reliable link layer protocols** J.G. Robinson [January 1985] (TXT = 31625 bytes) (Status: UNKNOWN)

[9634](#) **Proposed standard for message encapsulation** M.T. Rose, E.A. Stefferud [January 1985] (TXT = 21770 bytes) (Status: UNKNOWN)

[9633](#) **Output marking Telnet option** S. Silverman [January 1985] (TXT = 6715 bytes) (Status: PROPOSED STANDARD)

[9632](#) **Subnetwork addressing scheme** D.D. Clark [January 1985] (TXT = 9283 bytes) (Status: UNKNOWN)

[9631](#) **Authentication server** M. St. Johns [January 1985] (TXT = 8982 bytes) (Obsoletes [RFC0912](#)) (Obsoleted by [RFC1413](#)) (Status: UNKNOWN)

[9630](#) **Telnet terminal type option** M. Solomon, E. Wimmers [January 1985] (TXT = 6583 bytes) (Obsoletes [RFC0884](#)) (Obsoleted by [RFC1091](#)) (Status: UNKNOWN)

[9629](#) **Proposed Host-Front End Protocol** J. Lilienkamp, R. Mandell, M.A. Padlipsky [December 1984] (TXT = 135042 bytes) (Status: HISTORIC)

[9628](#) **Introduction to proposed DoD standard H-FP** M.A. Padlipsky [December 1984] (TXT = 60461 bytes) (Status: UNKNOWN)

[9627](#) **TACACS user identification Telnet option** B.A. Anderson [December 1984] (TXT = 5474 bytes) (Status: PROPOSED STANDARD)

[9626](#) **Protocol for providing the connectionless mode network services** International Organization for Standardization [December 1984] (TXT = 165895 bytes) (Obsoleted by [RFC0994](#)) (Status: UNKNOWN)

[9625](#) **Multi-LAN address resolution** J. Postel [October 1984] (TXT = 31137 bytes) (Status: UNKNOWN)

[9624](#) **Official ARPA-Internet protocols for connecting personal computers to the Internet** J.K. Reynolds, J. Postel [October 1984] (TXT = 48513 bytes) (Obsoletes [RFC0901](#)) (Obsoleted by [RFC0944](#)) (Status: UNKNOWN)

[9623](#) **Assigned numbers** J.K. Reynolds, J. Postel [October 1984] (TXT = 96467 bytes) (Obsoletes [RFC0900](#)) (Obsoleted by [RFC0943](#)) (Status: HISTORIC)

[9622](#) **Broadcasting Internet datagrams in the presence of subnets** J.C. Mogul [October 1984] (TXT = 24147 bytes) (Also [STD0005](#)) (Status: STANDARD)

[9621](#) **Domain name system implementation schedule - revised** J. Postel [October 1984] (TXT = 23318 bytes) (Updates [RFC0897](#)) (Status: UNKNOWN)

[9620](#) **Domain requirements** J. Postel, J.K. Reynolds [October 1984] (TXT = 27823 bytes) (Status: UNKNOWN)

[9619](#) **Broadcasting Internet Datagrams** J.C. Mogul [October 1984] (TXT = 16382 bytes) (Also [STD0005](#)) (Status: STANDARD)

[9618](#) **Post Office Protocol** J.K. Reynolds [October 1984] (TXT = 9876 bytes) (Obsoleted by [RFC0937](#)) (Status: UNKNOWN)

[9617](#) **Internet subnets** J.C. Mogul [October 1984] (TXT = 47072 bytes) (Status: UNKNOWN)

[9616](#) **Reliable Asynchronous Transfer Protocol (RATP)** G.G. Finn [October 1984] (TXT = 110737 bytes) (Status: HISTORIC)

[9615](#) **Network mail path service** M.A. Elvy, R. Nedved [December 1984] (TXT = 21635 bytes) (Status: UNKNOWN)

[9614](#) **Thinwire protocol for connecting personal computers to the Internet** D.J. Farber, G. Delp, T.M. Conte [September 1984] (TXT = 57288 bytes) (Status: HISTORIC)

[9613](#) **Simple File Transfer Protocol** M. Lottor [September 1984] (TXT = 20929 bytes) (Status: HISTORIC)

[9612](#) **Authentication service** M. St. Johns [September 1984] (TXT = 4544 bytes) (Obsoleted by [RFC0931](#)) (Status: UNKNOWN)

[9611](#) **EGP Gateway under Berkeley UNIX 4.2** P. Kirtan [August 1984] (TXT = 55908 bytes) (Status: UNKNOWN)

[9610](#) **Multimedia mail meeting notes** H.C. Forsdick [August 1984] (TXT = 24915 bytes) (Status: UNKNOWN)

[9609](#) **Loader Debugger Protocol** C. Welles, W. Milliken [July 1984] (TXT = 209813 bytes) (Status: EXPERIMENTAL)

[9608](#) **Reliable Data Protocol** D. Velten, R.M. Hinden, J. Sax [July 1984] (TXT = 97646 bytes) (Updated by [RFC1151](#)) (Status: EXPERIMENTAL)

[9607](#) **Host Access Protocol specification** Bolt Beranek and Newman Laboratories [July 1984] (TXT = 129985 bytes) (Updated by [RFC1221](#)) (Also [STD0040](#)) (Status: UNKNOWN)

STANDARD)

- [0906 Bootstrap loading using TFTP](#) R. Finlayson [June 1984] (TXT = 10102 bytes) (Status: UNKNOWN)
- [0905 ISO Transport Protocol specification ISO DP 8073](#) ISO [April 1 1984] (TXT = 249214 bytes)(Obsoletes [RFC0892](#)) (Status: UNKNOWN)
- [0904 Exterior Gateway Protocol formal specification](#) D.L. Mills [April 1 1984] (TXT = 65226 bytes)(Updates [RFC0827](#), [RFC0888](#)) (Status: HISTORIC)
- [0903 A Reverse Address Resolution Protocol](#) R. Finlayson, T. Mann, J.C. Mogul, M. Theimer [June 1984] (TXT = 9345 bytes)(Also [STD0038](#)) (Status: STANDARD)
- [0902 ARPA Internet Protocol policy](#) J.K. Reynolds, J. Postel [July 1984] (TXT = 11027 bytes) (Status: UNKNOWN)
- [0901 Official ARPA-Internet protocols](#) J.K. Reynolds, J. Postel [June 1984] (TXT = 41058 bytes)(Obsoletes [RFC0880](#)) (Obsoleted by [RFC0924](#)) (Status: UNKNOWN)
- [0900 Assigned Numbers](#) J.K. Reynolds, J. Postel [June 1984] (TXT = 82116 bytes)(Obsoletes [RFC0870](#)) (Obsoleted by [RFC0923](#)) (Status: HISTORIC)
- [0899 Request For Comments summary notes: 800-899](#) J. Postel, A. Westine [May 1984] (TXT = 39996 bytes) (Status: INFORMATIONAL)
- [0898 Gateway special interest group meeting notes](#) R.M. Hinden, J. Postel, M. Muuss, J.K. Reynolds [April 1 1984] (TXT = 42112 bytes) (Status: UNKNOWN)
- [0897 Domain name system implementation schedule](#) J. Postel [February 1984] (TXT = 15683 bytes)(Updates [RFC0881](#)) (Updated by [RFC0921](#)) (Status: UNKNOWN)
- [0896 Congestion control in IP/TCP internetworks](#) J. Nagle [January 1984] (TXT = 26782 bytes) (Status: UNKNOWN)
- [0895 Standard for the transmission of IP datagrams over experimental Ethernet networks](#) J. Postel [April 1 1984] (TXT = 4985 bytes)(Also [STD0042](#)) (Status: STANDARD)
- [0894 A Standard for the Transmission of IP Datagrams over Ethernet Networks](#) C. Hornig [April 1 1984] (TXT = 5697 bytes)(Also [STD0041](#)) (Status: STANDARD)
- [0893 Trailer encapsulations](#) S. Leffler, M.J. Karels [April 1 1984] (TXT = 13353 bytes) (Status: UNKNOWN)
- [0892 ISO Transport Protocol specification](#) International Organization for Standardization [December 1983] (TXT = 158151 bytes)(Obsoleted by [RFC0905](#)) (Status: UNKNOWN)
- [0891 DCN Local-Network Protocols](#) D.L. Mills [December 1983] (TXT = 65340 bytes)(Also [STD0044](#)) (Status: STANDARD)
- [0890 Exterior Gateway Protocol implementation schedule](#) J. Postel [February 1984] (TXT = 5899 bytes) (Status: UNKNOWN)
- [0889 Internet delay experiments](#) D.L. Mills [December 1983] (TXT = 27128 bytes) (Status: UNKNOWN)
- [0888 "STUB" Exterior Gateway Protocol](#) L. Seamonson, E.C. Rosen [January 1984] (TXT = 53227 bytes)(Updated by [RFC0904](#)) (Status: UNKNOWN)
- [0887 Resource Location Protocol](#) M. Accetta [December 1983] (TXT = 36770 bytes) (Status: EXPERIMENTAL)
- [0886 Proposed standard for message header munging](#) M.T. Rose [December 1983] (TXT = 30566 bytes) (Status: UNKNOWN)
- [0885 Telnet end of record option](#) J. Postel [December 1983] (TXT = 3232 bytes) (Status: PROPOSED STANDARD)
- [0884 Telnet terminal type option](#) M. Solomon, E. Wimmers [December 1983] (TXT = 7881 bytes)(Obsoleted by [RFC0930](#)) (Status: UNKNOWN)
- [0883 Domain names: Implementation specification](#) P.V. Mockapetris [November 1983] (TXT = 175067 bytes)(Obsoleted by [RFC1034](#), [RFC1035](#)) (Updated by [RFC0973](#)) (Status: UNKNOWN)
- [0882 Domain names: Concepts and facilities](#) P.V. Mockapetris [November 1983] (TXT = 79776 bytes)(Obsoleted by [RFC1034](#), [RFC1035](#)) (Updated by [RFC0973](#)) (Status: UNKNOWN)
- [0881 Domain names plan and schedule](#) J. Postel [November 1983] (TXT = 23490 bytes)(Updated by [RFC0897](#)) (Status: UNKNOWN)
- [0880 Official protocols](#) J.K. Reynolds, J. Postel [October 1983] (TXT = 37332 bytes)(Obsoletes [RFC0840](#)) (Obsoleted by [RFC0901](#)) (Status: HISTORIC)
- [0879 TCP maximum segment size and related topics](#) J. Postel [November 1983] (TXT = 22024 bytes) (Status: UNKNOWN)
- [0878 ARPANET 1822L Host Access Protocol](#) A.G. Malis [December 1983] (TXT = 74774 bytes)(Obsoletes [RFC0851](#)) (Status: UNKNOWN)
- [0877 Standard for the transmission of IP datagrams over public data networks](#) J.T. Korb [September 1983] (TXT = 3272 bytes)(Obsoleted by [RFC1356](#)) (Status: UNKNOWN)
- [0876 Survey of SMTP implementations](#) D. Smallberg [September 1983] (TXT = 37775 bytes) (Status: UNKNOWN)
- [0875 Gateways, architectures, and heffalumps](#) M.A. Padlipsky [September 1982] (TXT = 22816 bytes) (Status: UNKNOWN)
- [0874 Critique of X.25](#) M.A. Padlipsky [September 1982] (TXT = 36386 bytes) (Status: UNKNOWN)
- [0873 Illusion of vendor support](#) M.A. Padlipsky [September 1982] (TXT = 23095 bytes) (Status: UNKNOWN)
- [0872 TCP-on-a-LAN](#) M.A. Padlipsky [September 1982] (TXT = 22446 bytes) (Status: UNKNOWN)
- [0871 Perspective on the ARPANET reference model](#) M.A. Padlipsky [September 1982] (TXT = 74455 bytes) (Status: UNKNOWN)
- [0870 Assigned numbers](#) J.K. Reynolds, J. Postel [October 1983] (TXT = 56055 bytes)(Obsoletes [RFC0820](#)) (Obsoleted by [RFC0900](#)) (Status: HISTORIC)
- [0869 Host Monitoring Protocol](#) R. Hinden [December 1983] (TXT = 94550 bytes) (Status: HISTORIC)
- [0868 Time Protocol](#) J. Postel, K. Harrenstien [May 1983] (TXT = 3024 bytes)(Also [STD0026](#)) (Status: STANDARD)
- [0867 Daytime Protocol](#) J. Postel [May 1983] (TXT = 2289 bytes)(Also [STD0025](#)) (Status: STANDARD)
- [0866 Active users](#) J. Postel [May 1983] (TXT = 2029 bytes)(Also [STD0024](#)) (Status: STANDARD)
- [0865 Quote of the Day Protocol](#) J. Postel [May 1983] (TXT = 1676 bytes)(Also [STD0023](#)) (Status: STANDARD)
- [0864 Character Generator Protocol](#) J. Postel [May 1983] (TXT = 6842 bytes)(Also [STD0022](#)) (Status: STANDARD)
- [0863 Discard Protocol](#) J. Postel [May 1983] (TXT = 1239 bytes)(Also [STD0021](#)) (Status: STANDARD)
- [0862 Echo Protocol](#) J. Postel [May 1983] (TXT = 1237 bytes)(Also [STD0020](#)) (Status: STANDARD)
- [0861 Telnet Extended Options: List Option](#) J. Postel, J. Reynolds [May 1983] (TXT = 3068 bytes)(Obsoletes NIC16239) (Also [STD0032](#)) (Status: STANDARD)
- [0860 Telnet Timing Mark Option](#) J. Postel, J. Reynolds [May 1983] (TXT = 7881 bytes)(Obsoletes NIC16238) (Also [STD0031](#)) (Status: STANDARD)
- [0859 Telnet Status Option](#) J. Postel, J. Reynolds [May 1983] (TXT = 4273 bytes)(Obsoletes [RFC0651](#)) (Also [STD0030](#)) (Status: STANDARD)
- [0858 Telnet Suppress Go Ahead Option](#) J. Postel, J. Reynolds [May 1983] (TXT = 3712 bytes)(Obsoletes NIC15392) (Also [STD0029](#)) (Status: STANDARD)
- [0857 Telnet Echo Option](#) J. Postel, J. Reynolds [May 1983] (TXT = 10859 bytes)(Obsoletes NIC15390) (Also [STD0028](#)) (Status: STANDARD)
- [0856 Telnet Binary Transmission](#) J. Postel, J. Reynolds [May 1983] (TXT = 8965 bytes)(Obsoletes NIC15389) (Also [STD0027](#)) (Status: STANDARD)
- [0855 Telnet Option Specifications](#) J. Postel, J.K. Reynolds [May 1983] (TXT = 6218 bytes)(Obsoletes NIC18640) (Also [STD0008](#)) (Status: STANDARD)
- [0854 Telnet Protocol Specification](#) J. Postel, J.K. Reynolds [May 1983] (TXT = 39371 bytes)(Obsoletes [RFC0764](#)) (Updated by [RFC5198](#)) (Also [STD0008](#)) (Status: STANDARD)
- 0853 Not Issued.
- [0852 ARPANET short blocking feature](#) A.G. Malis [April 1 1983] (TXT = 17151 bytes) (Status: UNKNOWN)
- [0851 ARPANET 1822L Host Access Protocol](#) A.G. Malis [April 1983] (TXT = 72042 bytes)(Obsoletes [RFC0802](#)) (Obsoleted by [RFC0878](#)) (Status: UNKNOWN)
- [0850 Standard for interchange of USENET messages](#) M.R. Horton [June 1983] (TXT = 43871 bytes)(Obsoleted by [RFC1036](#)) (Status: UNKNOWN)
- [0849 Suggestions for improved host table distribution](#) M.R. Crispin [May 1983] (TXT = 5178 bytes) (Status: UNKNOWN)
- [0848 Who provides the "little" TCP services?](#) D. Smallberg [March 1983] (TXT = 10985 bytes) (Status: UNKNOWN)
- [0847 Summary of Smallberg surveys](#) A. Westine, D. Smallberg, J. Postel [February 1983] (TXT = 3789 bytes)(Obsoletes [RFC0846](#)) (Status: UNKNOWN)
- [0846 Who talks TCP? - survey of 22 February 1983](#) D. Smallberg [February 1983] (TXT = 45597 bytes)(Obsoletes [RFC0845](#)) (Obsoleted by [RFC0847](#)) (Status: UNKNOWN)
- [0845 Who talks TCP? - survey of 15 February 1983](#) D. Smallberg [February 1983] (TXT = 45983 bytes)(Obsoletes [RFC0843](#)) (Obsoleted by [RFC0846](#)) (Status: UNKNOWN)

[0844 Who talks ICMP, too? - Survey of 18 February 1983](#) R. Clements [February 1983] (TXT = 9078 bytes)(Updates [RFC0843](#)) (Status: UNKNOWN)

[0843 Who talks TCP? - survey of 8 February 83](#) D. Smallberg [February 1983] (TXT = 46193 bytes)(Obsoletes [RFC0842](#)) (Obsoleted by [RFC0845](#)) (Updated by [RFC0844](#)) (Status: UNKNOWN)

[0842 Who talks TCP? - survey of 1 February 83](#) D. Smallberg [February 1983] (TXT = 45962 bytes)(Obsoletes [RFC0839](#)) (Obsoleted by [RFC0843](#)) (Status: UNKNOWN)

[0841 Specification for message format for Computer Based Message Systems](#) National Bureau of Standards [January 1983] (TXT = 231871 bytes)(Obsoletes [RFC0806](#)) (Status: UNKNOWN)

[0840 Official protocols](#) J. Postel [April 1983] (TXT = 33534 bytes)(Obsoleted by [RFC0880](#)) (Status: HISTORIC)

[0839 Who talks TCP?](#) D. Smallberg [January 1983] (TXT = 45175 bytes)(Obsoletes [RFC0838](#)) (Obsoleted by [RFC0842](#)) (Status: UNKNOWN)

[0838 Who talks TCP?](#) D. Smallberg [January 1983] (TXT = 45033 bytes)(Obsoletes [RFC0837](#)) (Obsoleted by [RFC0839](#)) (Status: UNKNOWN)

[0837 Who talks TCP?](#) D. Smallberg [January 1983] (TXT = 44864 bytes)(Obsoletes [RFC0836](#)) (Obsoleted by [RFC0838](#)) (Status: UNKNOWN)

[0836 Who talks TCP?](#) D. Smallberg [January 1983] (TXT = 43643 bytes)(Obsoletes [RFC0835](#)) (Obsoleted by [RFC0837](#)) (Status: UNKNOWN)

[0835 Who talks TCP?](#) D. Smallberg [December 1982] (TXT = 42959 bytes)(Obsoletes [RFC0834](#)) (Obsoleted by [RFC0836](#)) (Status: UNKNOWN)

[0834 Who talks TCP?](#) D. Smallberg [December 1982] (TXT = 42764 bytes)(Obsoletes [RFC0833](#)) (Obsoleted by [RFC0835](#)) (Status: UNKNOWN)

[0833 Who talks TCP?](#) D. Smallberg [December 1982] (TXT = 42973 bytes)(Obsoletes [RFC0832](#)) (Obsoleted by [RFC0834](#)) (Status: UNKNOWN)

[0832 Who talks TCP?](#) D. Smallberg [December 1982] (TXT = 42751 bytes)(Obsoleted by [RFC0833](#)) (Status: UNKNOWN)

[0831 Backup access to the European side of SATNET](#) R.T. Braden [December 1982] (TXT = 11735 bytes) (Status: UNKNOWN)

[0830 Distributed system for Internet name service](#) Z. Su [October 1982] (TXT = 31597 bytes) (Status: UNKNOWN)

[0829 Packet satellite technology reference sources](#) V.G. Cerf [November 1982] (TXT = 10919 bytes) (Status: UNKNOWN)

[0828 Data communications: IFIP's international "network" of experts](#) K. Owen [August 1982] (TXT = 29922 bytes) (Status: UNKNOWN)

[0827 Exterior Gateway Protocol \(EGP\)](#) E.C. Rosen [October 1982] (TXT = 68436 bytes)(Updated by [RFC0904](#)) (Status: UNKNOWN)

[0826 Ethernet Address Resolution Protocol: Or Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware](#) D. Plummer [November 1982] (TXT = 21556 bytes)(Updated by [RFC5227](#)) (Also [STD0037](#)) (Status: STANDARD)

[0825 Request for comments on Requests For Comments](#) J. Postel [November 1982] (TXT = 4255 bytes)(Obsoleted by [RFC1111](#), [RFC1543](#), [RFC2223](#)) (Status: UNKNOWN)

[0824 CRONUS Virtual Local Network](#) W.I. MacGregor, D.C. Tappan [August 1982] (TXT = 58732 bytes) (Status: UNKNOWN)

[0823 DARPA Internet gateway](#) R.M. Hinden, A. Sheltzer [September 1982] (TXT = 62620 bytes)(Updates [IEN109](#), [IEN30](#)) (Status: HISTORIC)

[0822 STANDARD FOR THE FORMAT OF ARPA INTERNET TEXT MESSAGES](#) D. Crocker [August 1982] (TXT = 106299 bytes)(Obsoletes [RFC0733](#)) (Obsoleted by [RFC2822](#)) (Updated by [RFC1123](#), [RFC2156](#), [RFC1327](#), [RFC1138](#), [RFC1148](#)) (Also [STD0011](#)) (Status: STANDARD)

[0821 Simple Mail Transfer Protocol](#) J. Postel [August 1982] (TXT = 124482 bytes)(Obsoletes [RFC0788](#)) (Obsoleted by [RFC2821](#)) (Also [STD0010](#)) (Status: STANDARD)

[0820 Assigned numbers](#) J. Postel [August 1982] (TXT = 54213 bytes)(Obsoletes [RFC0790](#)) (Obsoleted by [RFC0870](#)) (Status: HISTORIC)

[0819 Domain naming convention for Internet user applications](#) Z. Su, J. Postel [August 1982] (TXT = 35314 bytes) (Status: UNKNOWN)

[0818 Remote User Telnet service](#) J. Postel [November 1982] (TXT = 3693 bytes) (Status: HISTORIC)

[0817 Modularity and efficiency in protocol implementation](#) D.D. Clark [July 1982] (TXT = 45931 bytes) (Status: UNKNOWN)

[0816 Fault isolation and recovery](#) D.D. Clark [July 1982] (TXT = 20106 bytes) (Status: UNKNOWN)

[0815 IP datagram reassembly algorithms](#) D.D. Clark [July 1982] (TXT = 14575 bytes) (Status: UNKNOWN)

[0814 Name, addresses, ports, and routes](#) D.D. Clark [July 1982] (TXT = 24663 bytes) (Status: UNKNOWN)

[0813 Window and Acknowledgement Strategy in TCP](#) D.D. Clark [July 1982] (TXT = 38110 bytes) (Status: UNKNOWN)

[0812 NICNAME/WHOIS](#) K. Harrenstien, V. White [March 1982] (TXT = 5389 bytes)(Obsoleted by [RFC0954](#), [RFC3912](#)) (Status: UNKNOWN)

[0811 Hostnames Server](#) K. Harrenstien, V. White, E.J. Feinler [March 1982] (TXT = 7771 bytes)(Obsoleted by [RFC0953](#)) (Status: UNKNOWN)

[0810 DoD Internet host table specification](#) E.J. Feinler, K. Harrenstien, Z. Su, V. White [March 1982] (TXT = 14196 bytes)(Obsoletes [RFC0608](#)) (Obsoleted by [RFC0952](#)) (Status: UNKNOWN)

[0809 UCL facsimile system](#) T. Chang [February 1982] (TXT = 171153 bytes) (Status: UNKNOWN)

[0808 Summary of computer mail services meeting held at BBN on 10 January 1979](#) J. Postel [March 1982] (TXT = 15930 bytes) (Status: UNKNOWN)

[0807 Multimedia mail meeting notes](#) J. Postel [February 1982] (TXT = 11633 bytes) (Status: UNKNOWN)

[0806 Proposed Federal Information Processing Standard: Specification for message format for computer based message systems](#) National Bureau of Standards [September 1981] (TXT = 216377 bytes)(Obsoleted by [RFC0841](#)) (Status: UNKNOWN)

[0805 Computer mail meeting notes](#) J. Postel [February 1982] (TXT = 12522 bytes) (Status: UNKNOWN)

[0804 CCITT draft recommendation T.4](#) International Telegraph and Telephone Consultative Committee of the International Telecommunication Union [January 1981] (TXT = 17025 bytes) (Status: UNKNOWN)

[0803 Dacom 450/500 facsimile data transcoding](#) A. Agarwal, M.J. O'Connor, D.L. Mills [November 1981] (TXT = 33826 bytes) (Status: UNKNOWN)

[0802 ARPANET 1822L Host Access Protocol](#) A.G. Malis [November 1981] (TXT = 62470 bytes)(Obsoleted by [RFC0851](#)) (Status: UNKNOWN)

[0801 NCP/TCP transition plan](#) J. Postel [November 1981] (TXT = 42041 bytes) (Status: UNKNOWN)

[0800 Request For Comments summary notes: 700-799](#) J. Postel, J. Vernon [November 1982] (TXT = 18354 bytes) (Status: INFORMATIONAL)

[0799 Internet name domains](#) D.L. Mills [September 1981] (TXT = 13896 bytes) (Status: UNKNOWN)

[0798 Decoding facsimile data from the Rapicom 450](#) A.R. Katz [September 1981] (TXT = 38867 bytes) (Status: UNKNOWN)

[0797 Format for Bitmap files](#) A.R. Katz [September 1981] (TXT = 3067 bytes) (Status: UNKNOWN)

[0796 Address mappings](#) J. Postel [September 1981] (TXT = 11239 bytes)(Obsoletes [IEN115](#)) (Status: UNKNOWN)

[0795 Service mappings](#) J. Postel [September 1981] (TXT = 5228 bytes) (Status: UNKNOWN)

[0794 Pre-emption](#) V.G. Cerf [September 1981] (TXT = 5906 bytes)(Updates [IEN125](#)) (Status: UNKNOWN)

[0793 Transmission Control Protocol](#) J. Postel [September 1981] (TXT = 172710 bytes)(Updated by [RFC1122](#), [RFC3168](#)) (Also [STD0007](#)) (Status: STANDARD)

[0792 Internet Control Message Protocol](#) J. Postel [September 1981] (TXT = 30404 bytes)(Obsoletes [RFC0777](#)) (Updated by [RFC0950](#), [RFC4884](#)) (Also [STD0005](#)) (Status: STANDARD)

[0791 Internet Protocol](#) J. Postel [September 1981] (TXT = 97779 bytes)(Obsoletes [RFC0760](#)) (Updated by [RFC1349](#)) (Also [STD0005](#)) (Status: STANDARD)

[0790 Assigned numbers](#) J. Postel [September 1981] (TXT = 35316 bytes)(Obsoletes [RFC0776](#)) (Obsoleted by [RFC0820](#)) (Status: HISTORIC)

[0789 Vulnerabilities of network control protocols: An example](#) E.C. Rosen [July 1981] (TXT = 25541 bytes) (Status: UNKNOWN)

[0788 Simple Mail Transfer Protocol](#) J. Postel [November 1981] (TXT = 109001 bytes)(Obsoletes [RFC0780](#)) (Obsoleted by [RFC0821](#), [STD0010](#)) (Status: UNKNOWN)

[0787 Connectionless data transmission survey/tutorial](#) A.L. Chapin [July 1981] (TXT = 84265 bytes) (Status: UNKNOWN)

[0786 Mail Transfer Protocol: ISI TOPS20 MTP-NIMAIL interface](#) S. Sluizer, J. Postel [July 1981] (TXT = 3129 bytes) (Status: UNKNOWN)

[0785 Mail Transfer Protocol: ISI TOPS20 file definitions](#) S. Sluizer, J. Postel [July 1981] (TXT = 7032 bytes) (Status: UNKNOWN)

[0784 Mail Transfer Protocol: ISI TOPS20 implementation](#) S. Sluizer, J. Postel [July 1981] (TXT = 5856 bytes) (Status: UNKNOWN)

[0783 TFTP Protocol \(revision 2\)](#) K.R. Sollins [June 1981] (TXT = 23522 bytes)(Obsoletes [IEN133](#)) (Obsoleted by [RFC1350](#)) (Status: UNKNOWN)

0782 **Virtual Terminal management model** J. Nablisky, A.P. Skelton [January 1981] (TXT = 43589 bytes) (Status: UNKNOWN)

0781 **Specification of the Internet Protocol (IP) timestamp option** Z. Su [May 1981] (TXT = 4002 bytes) (Status: UNKNOWN)

0780 **Mail Transfer Protocol** S. Sluizer, J. Postel [May 1981] (TXT = 80352 bytes)(Obsoletes [RFC0772](#)) (Obsoleted by [RFC0788](#), [STD0010](#)) (Status: UNKNOWN)

0779 **Telnet send-location option** E. Kilian [April 1 1981] (TXT = 2564 bytes) (Status: PROPOSED STANDARD)

0778 **DCNET Internet Clock Service** D.L. Mills [April 1981] (TXT = 9464 bytes) (Status: HISTORIC)

0777 **Internet Control Message Protocol** J. Postel [April 1 1981] (TXT = 19407 bytes)(Obsoleted by [RFC0792](#)) (Updates [RFC0760](#)) (Status: UNKNOWN)

0776 **Assigned numbers** J. Postel [January 1981] (TXT = 30311 bytes)(Obsoletes [RFC0770](#)) (Obsoleted by [RFC0790](#)) (Status: HISTORIC)

0775 **Directory oriented FTP commands** D. Mankins, D. Franklin, A.D. Owen [December 1980] (TXT = 9511 bytes) (Status: UNKNOWN)

0774 **Internet Protocol Handbook: Table of contents** J. Postel [October 1980] (TXT = 3452 bytes)(Obsoletes [RFC0766](#)) (Status: UNKNOWN)

0773 **Comments on NCP/TCP mail service transition strategy** V.G. Cerf [October 1980] (TXT = 22181 bytes) (Status: UNKNOWN)

0772 **Mail Transfer Protocol** S. Sluizer, J. Postel [September 1980] (TXT = 61061 bytes)(Obsoleted by [RFC0780](#), [STD0010](#)) (Status: UNKNOWN)

0771 **Mail transition plan** V.G. Cerf, J. Postel [September 1980] (TXT = 18623 bytes) (Status: UNKNOWN)

0770 **Assigned numbers** J. Postel [September 1980] (TXT = 26248 bytes)(Obsoletes [RFC0762](#)) (Obsoleted by [RFC0776](#)) (Status: HISTORIC)

0769 **Rapicom 450 facsimile file format** J. Postel [September 1980] (TXT = 4079 bytes) (Status: UNKNOWN)

0768 **User Datagram Protocol** J. Postel [August 1980] (TXT = 5896 bytes)(Also [STD0006](#)) (Status: STANDARD)

0767 **Structured format for transmission of multi-media documents** J. Postel [August 1980] (TXT = 59971 bytes) (Status: UNKNOWN)

0766 **Internet Protocol Handbook: Table of contents** J. Postel [July 1980] (TXT = 3465 bytes)(Obsoleted by [RFC0774](#)) (Status: UNKNOWN)

0765 **File Transfer Protocol specification** J. Postel [June 1980] (TXT = 146641 bytes)(Obsoletes [RFC0542](#)) (Obsoleted by [RFC0959](#)) (Status: UNKNOWN)

0764 **Telnet Protocol specification** J. Postel [June 1980] (TXT = 40005 bytes)(Obsoleted by [RFC0854](#)) (Status: UNKNOWN)

0763 **Role mailboxes** M.D. Abrams [May 1980] (TXT = 942 bytes) (Status: UNKNOWN)

0762 **Assigned numbers** J. Postel [January 1980] (TXT = 24668 bytes)(Obsoletes [RFC0758](#)) (Obsoleted by [RFC0770](#)) (Status: HISTORIC)

0761 **DoD standard Transmission Control Protocol** J. Postel [January 1980] (TXT = 167049 bytes) (Status: UNKNOWN)

0760 **DoD standard Internet Protocol** J. Postel [January 1980] (TXT = 81507 bytes)(Obsoletes [IEN123](#)) (Obsoleted by [RFC0791](#)) (Updated by [RFC0777](#)) (Status: UNKNOWN)

0759 **Internet Message Protocol** J. Postel [August 1980] (TXT = 123606 bytes) (Status: HISTORIC)

0758 **Assigned numbers** J. Postel [August 1979] (TXT = 22911 bytes)(Obsoletes [RFC0755](#)) (Obsoleted by [RFC0762](#)) (Status: HISTORIC)

0757 **Suggested solution to the naming, addressing, and delivery problem for ARPANET message systems** D.P. Deutsch [September 1979] (TXT = 35618 bytes) (Status: UNKNOWN)

0756 **NIC name server - a datagram-based information utility** J.R. Pickens, E.J. Feinler, J.E. Mathis [July 1979] (TXT = 23491 bytes) (Status: UNKNOWN)

0755 **Assigned numbers** J. Postel [May 1979] (TXT = 22039 bytes)(Obsoletes [RFC0750](#)) (Obsoleted by [RFC0758](#)) (Status: HISTORIC)

0754 **Out-of-net host addresses for mail** J. Postel [April 1979] (TXT = 19212 bytes) (Status: UNKNOWN)

0753 **Internet Message Protocol** J. Postel [March 1979] (TXT = 93363 bytes) (Status: UNKNOWN)

0752 **Universal host table** M.R. Crispin [January 1979] (TXT = 33793 bytes) (Status: UNKNOWN)

0751 **Survey of FTP mail and MLFL** P.D. Lebling [December 1978] (TXT = 10069 bytes) (Status: UNKNOWN)

0750 **Assigned numbers** J. Postel [September 1978] (TXT = 19979 bytes)(Obsoletes [RFC0739](#)) (Obsoleted by [RFC0755](#)) (Status: HISTORIC)

0749 **Telnet SUPDUP-Output option** B. Greenberg [September 1978] (TXT = 8933 bytes) (Status: PROPOSED STANDARD)

0748 **Telnet randomly-lose option** M.R. Crispin [April 1 1978] (TXT = 2741 bytes) (Status: UNKNOWN)

0747 **Recent extensions to the SUPDUP Protocol** M.R. Crispin [March 1978] (TXT = 2870 bytes) (Status: UNKNOWN)

0746 **SUPDUP graphics extension** R. Stallman [March 1978] (TXT = 30197 bytes) (Status: UNKNOWN)

0745 **JANUS interface specifications** M. Beeler [March 1978] (TXT = 21453 bytes) (Status: UNKNOWN)

0744 **MARS - a Message Archiving and Retrieval Service** J. Sattley [January 1978] (TXT = 10984 bytes) (Status: UNKNOWN)

0743 **FTP extension: XRSQ/XRCP** K. Harrenstien [December 1977] (TXT = 16249 bytes) (Status: UNKNOWN)

0742 **NAME/FINGER Protocol** K. Harrenstien [December 1977] (TXT = 12321 bytes)(Obsoleted by [RFC1288](#), [RFC1196](#), [RFC1194](#)) (Status: UNKNOWN)

0741 **Specifications for the Network Voice Protocol (NVP)** D. Cohen [November 1977] (TXT = 57581 bytes) (Status: UNKNOWN)

0740 **NETRJS Protocol** R.T. Braden [November 1977] (TXT = 38833 bytes)(Obsoletes [RFC0599](#)) (Status: HISTORIC)

0739 **Assigned numbers** J. Postel [November 1977] (TXT = 16346 bytes)(Obsoletes [RFC0604](#), [RFC0503](#)) (Obsoleted by [RFC0750](#)) (Status: HISTORIC)

0738 **Time server** K. Harrenstien [October 1977] (TXT = 1851 bytes) (Status: UNKNOWN)

0737 **FTP extension: XSEN** K. Harrenstien [October 1977] (TXT = 2127 bytes) (Status: UNKNOWN)

0736 **Telnet SUPDUP option** M.R. Crispin [October 1977] (TXT = 3081 bytes) (Status: PROPOSED STANDARD)

0735 **Revised Telnet byte macro option** D. Crocker, R.H. Gumpertz [November 1977] (TXT = 10585 bytes)(Obsoletes [RFC0729](#)) (Status: PROPOSED STANDARD)

0734 **SUPDUP Protocol** M.R. Crispin [October 1977] (TXT = 33256 bytes) (Status: HISTORIC)

0733 **Standard for the format of ARPA network text messages** D. Crocker, J. Vittal, K.T. Pogran, D.A. Henderson [November 1977] (TXT = 73006 bytes)(Obsoletes [RFC0724](#)) (Obsoleted by [RFC0822](#)) (Status: UNKNOWN)

0732 **Telnet Data Entry Terminal option** J.D. Day [September 1977] (TXT = 57160 bytes)(Obsoletes [RFC0731](#)) (Updated by [RFC1043](#)) (Status: UNKNOWN)

0731 **Telnet Data Entry Terminal option** J.D. Day [June 1977] (TXT = 61648 bytes)(Obsoleted by [RFC0732](#)) (Status: UNKNOWN)

0730 **Extensible field addressing** J. Postel [May 1977] (TXT = 9519 bytes) (Status: UNKNOWN)

0729 **Telnet byte macro option** D. Crocker [May 1977] (TXT = 6509 bytes)(Obsoleted by [RFC0735](#)) (Status: UNKNOWN)

0728 **Minor pitfall in the Telnet Protocol** J.D. Day [April 1977] (TXT = 2224 bytes) (Status: UNKNOWN)

0727 **Telnet logout option** M.R. Crispin [April 1977] (TXT = 5674 bytes) (Status: PROPOSED STANDARD)

0726 **Remote Controlled Transmission and Echoing Telnet option** J. Postel, D. Crocker [March 1977] (TXT = 38651 bytes) (Status: PROPOSED STANDARD)

0725 **RJE protocol for a resource sharing network** J.D. Day, G.R. Grossman [March 1977] (TXT = 44025 bytes) (Status: UNKNOWN)

0724 **Proposed official standard for the format of ARPA Network messages** D. Crocker, K.T. Pogran, J. Vittal, D.A. Henderson [May 1977] (TXT = 75554 bytes) (Obsoleted by [RFC0733](#)) (Status: UNKNOWN)

0723 Not Issued.

0722 **Thoughts on Interactions in Distributed Services** J. Haverty [September 1976] (TXT = 29478 bytes) (Status: UNKNOWN)

0721 **Out-of-Band Control Signals in a Host-to-Host Protocol** L.L. Garlick [September 1976] (TXT = 13566 bytes) (Status: UNKNOWN)

0720 **Address Specification Syntax for Network Mail** D. Crocker [August 1976] (TXT = 6602 bytes) (Status: UNKNOWN)

0719 **Discussion on RCTE** J. Postel [July 1976] (TXT = 4708 bytes) (Status: UNKNOWN)

0718 **Comments on RCTE from the Tenex Implementation Experience** J. Postel [June 1976] (TXT = 3829 bytes) (Status: UNKNOWN)

0717 **Assigned Network Numbers** J. Postel [July 1976] (TXT = 2322 bytes) (Status: HISTORIC)

0716 **Interim Revision to Appendix F of BBN 1822** D.C. Walden, J. Levin [May 1976] (TXT = 3345 bytes) (Status: UNKNOWN)
0715 Not Issued.

0714 **Host-Host Protocol for an ARPANET-Type Network** A.M. McKenzie [April 1976] (PDF = 1599012 bytes) (Status: UNKNOWN)
0713 **MSDTP-Message Services Data Transmission Protocol** J. Haverty [April 1976] (TXT = 41175 bytes) (Status: UNKNOWN)
0712 **Distributed Capability Computing System (DCCS)** J.E. Donnelley [February 1976] (PDF = 1201164 bytes) (Status: UNKNOWN)
0711 Not Issued.
0710 Not Issued.
0709 Not Issued.

0708 **Elements of a Distributed Programming System** J.E. White [January 1976] (TXT = 57888 bytes) (Status: UNKNOWN)
0707 **High-level framework for network-based resource sharing** J.E. White [December 1975] (TXT = 57254 bytes) (Status: UNKNOWN)
0706 **On the junk mail problem** J. Postel [November 1975] (TXT = 2085 bytes) (Status: UNKNOWN)
0705 **Front-end Protocol B6700 version** R.F. Bryan [November 1975] (TXT = 70998 bytes) (Status: UNKNOWN)
0704 **IMP/Host and Host/IMP Protocol change** P.J. Santos [September 1975] (TXT = 7504 bytes)(Obsoletes [RFC0687](#)) (Status: UNKNOWN)
0703 **July, 1975, survey of New-Protocol Telnet Servers** D.W. Dodds [July 1975] (TXT = 5691 bytes)(Updates [RFC0679](#)) (Status: UNKNOWN)
0702 **September, 1974, survey of New-Protocol Telnet servers** D.W. Dodds [September 1974] (TXT = 5386 bytes)(Updates [RFC0701](#)) (Updated by [RFC0669](#)) (Status: UNKNOWN)
0701 **August, 1974, survey of New-Protocol Telnet servers** D.W. Dodds [August 1974] (TXT = 3549 bytes)(Updated by [RFC0702](#)) (Status: UNKNOWN)
0700 **Protocol experiment** E. Mader, W.W. Plummer, R.S. Tomlinson [August 1974] (TXT = 14600 bytes) (Status: UNKNOWN)
0699 **Request For Comments summary notes: 600-699** J. Postel, J. Vernon [November 1982] (TXT = 14688 bytes) (Status: INFORMATIONAL)
0698 **Telnet extended ASCII option** T. Mock [July 1975] (TXT = 5086 bytes)(Obsoleted by [RFC5198](#)) (Status: PROPOSED STANDARD)
0697 **CWD command of FTP** J. Lieb [July 1975] (TXT = 3047 bytes) (Status: UNKNOWN)
0696 **Comments on the IMP/Host and Host/IMP Protocol changes** V.G. Cerf [July 1975] (PDF = 227873 bytes) (Status: UNKNOWN)
0695 **Official change in Host-Host Protocol** M. Krilanovich [July 1975] (TXT = 3425 bytes) (Status: UNKNOWN)
0694 **Protocol information** J. Postel [June 1975] (PDF = 1457530 bytes)(Updates [RFC0661](#)) (Status: UNKNOWN)
0693 Not Issued.

0692 **Comments on IMP/Host Protocol changes (RFCs 687 and 690)** S.M. Wolfe [June 1975] (TXT = 2681 bytes)(Updates [RFC0690](#)) (Status: UNKNOWN)
0691 **One more try on the FTP** B. Harvey [June 1975] (TXT = 32821 bytes) (Status: UNKNOWN)
0690 **Comments on the proposed Host/IMP Protocol changes** J. Postel [June 1975] (TXT = 7215 bytes)(Updates [RFC0687](#)) (Updated by [RFC0692](#)) (Status: UNKNOWN)
0689 **Tenex NCP finite state machine for connections** R. Clements [May 1975] (TXT = 13101 bytes) (Status: UNKNOWN)
0688 **Tentative schedule for the new Telnet implementation for the TIP** D.C. Walden [June 1975] (TXT = 1593 bytes) (Status: UNKNOWN)
0687 **IMP/Host and Host/IMP Protocol changes** D.C. Walden [June 1975] (TXT = 6013 bytes)(Obsoleted by [RFC0704](#)) (Updated by [RFC0690](#)) (Status: UNKNOWN)
0686 **Leaving well enough alone** B. Harvey [May 1975] (TXT = 24605 bytes) (Status: UNKNOWN)
0685 **Response time in cross network debugging** M. Beeler [April 1975] (TXT = 6914 bytes) (Status: UNKNOWN)
0684 **Commentary on procedure calling as a network protocol** R. Schantz [April 1975] (TXT = 21164 bytes) (Status: UNKNOWN)
0683 **FTPSRV - Tenex extension for paged files** R. Clements [April 1975] (TXT = 8806 bytes)(Updates [RFC0354](#)) (Status: UNKNOWN)
0682 Not Issued.

0681 **Network UNIX** S. Holmgren [March 1975] (TXT = 18874 bytes) (Status: UNKNOWN)
0680 **Message Transmission Protocol** T.H. Myer, D.A. Henderson [April 1975] (TXT = 11539 bytes)(Updates [RFC0561](#)) (Status: UNKNOWN)
0679 **February, 1975, survey of New-Protocol Telnet servers** D.W. Dodds [February 1975] (PDF = 142853 bytes)(Updates [RFC0669](#)) (Updated by [RFC0703](#)) (Status: UNKNOWN)
0678 **Standard file formats** J. Postel [December 1974] (TXT = 12393 bytes) (Status: UNKNOWN)
0677 **Maintenance of duplicate databases** P.R. Johnson, R. Thomas [January 1975] (TXT = 22990 bytes) (Status: UNKNOWN)
0676 Not Issued.

0675 **Specification of Internet Transmission Control Program** V. Cerf, Y. Dalal, C. Sunshine [December 1974] (TXT = 156874 bytes) (Status: UNKNOWN)
0674 **Procedure call documents: Version 2** J. Postel, J.E. White [December 1974] (TXT = 12178 bytes) (Status: UNKNOWN)
0673 Not Issued.

0672 **Multi-site data collection facility** R. Schantz [December 1974] (TXT = 25736 bytes) (Status: UNKNOWN)
0671 **Note on Reconnection Protocol** R. Schantz [December 1974] (PDF = 686491 bytes) (Status: UNKNOWN)
0670 Not Issued.

0669 **November, 1974, survey of New-Protocol Telnet servers** D.W. Dodds [December 1974] (PDF = 134962 bytes)(Updates [RFC0702](#)) (Updated by [RFC0679](#)) (Status: UNKNOWN)
0668 Not Issued.

0667 **Host Ports** S.G. Chipman [December 1974] (TXT, PDF = 3244, 52660 bytes) (Status: UNKNOWN)
0666 **Specification of the Unified User-Level Protocol** M.A. Padlipsky [November 1974] (TXT = 49024 bytes) (Status: UNKNOWN)
0665 Not Issued.
0664 Not Issued.

0663 **Lost message detection and recovery protocol** R. Kanodia [November 1974] (TXT = 44702 bytes) (Status: UNKNOWN)
0662 **Performance improvement in ARPANET file transfers from Multics** R. Kanodia [November 1974] (TXT = 8872 bytes) (Status: UNKNOWN)
0661 **Protocol information** J. Postel [November 1974] (PDF = 1071305 bytes)(Updated by [RFC0694](#)) (Status: UNKNOWN)
0660 **Some changes to the IMP and the IMP/Host interface** D.C. Walden [October 1974] (TXT = 4991 bytes) (Status: UNKNOWN)
0659 **Announcing additional Telnet options** J. Postel [October 1974] (TXT = 2016 bytes) (Status: UNKNOWN)
0658 **Telnet output linefeed disposition** D. Crocker [October 1974] (TXT = 6484 bytes) (Status: HISTORIC)
0657 **Telnet output vertical tab disposition option** D. Crocker [October 1974] (TXT = 5759 bytes) (Status: HISTORIC)
0656 **Telnet output vertical tabstops option** D. Crocker [October 1974] (TXT = 4858 bytes) (Status: HISTORIC)
0655 **Telnet output formfeed disposition option** D. Crocker [October 1974] (TXT = 5991 bytes) (Status: HISTORIC)
0654 **Telnet output horizontal tab disposition option** D. Crocker [October 1974] (TXT = 6158 bytes) (Status: HISTORIC)
0653 **Telnet output horizontal tabstops option** D. Crocker [October 1974] (TXT = 4694 bytes) (Status: HISTORIC)
0652 **Telnet output carriage-return disposition option** D. Crocker [October 1974] (TXT = 7003 bytes) (Status: HISTORIC)
0651 **Revised Telnet status option** D. Crocker [October 1974] (TXT = 4360 bytes)(Obsoleted by [RFC0859](#)) (Status: UNKNOWN)
0650 Not Issued.

0649 Not Issued.

0648 Not Issued.

0647 **Proposed protocol for connecting host computers to ARPA-like networks via front end processors** M.A. Padlipsky [November 1974] (PDF = 1948940 bytes) (Status: UNKNOWN)

0646 Not Issued.

0645 **Network Standard Data Specification syntax** D. Crocker [June 1974] (PDF = 567325 bytes)(Obsoletes [RFC0615](#)) (Status: UNKNOWN)

[0644 On the problem of signature authentication for network mail](#) R. Thomas [July 1974] (TXT = 9501 bytes) (Status: UNKNOWN)

[0643 Network Debugging Protocol](#) E. Mader [July 1974] (TXT = 12563 bytes) (Status: UNKNOWN)

[0642 Ready line philosophy and implementation](#) J.D. Burchfiel [July 1974] (TXT = 8414 bytes) (Status: UNKNOWN)

0641 Not Issued.

[0640 Revised FTP reply codes](#) J. Postel [June 1974] (TXT = 39670 bytes)(Updates [RFC0542](#)) (Status: UNKNOWN)

0639 Not Issued.

[0638 IMP/TIP preventive maintenance schedule](#) A.M. McKenzie [April 1974] (TXT = 4088 bytes)(Obsoletes [RFC0633](#)) (Status: UNKNOWN)

[0637 Change of network address for SU-DSL](#) A.M. McKenzie [April 1974] (TXT = 916 bytes) (Status: UNKNOWN)

[0636 TIP/Tenex reliability improvements](#) J.D. Burchfiel, B. Cosell, R.S. Tomlinson, D.C. Walden [June 1974] (TXT = 19914 bytes) (Status: UNKNOWN)

[0635 Assessment of ARPANET protocols](#) V. Cerf [April 1974] (TXT, PDF = 338, 3208268 bytes) (Status: UNKNOWN)

[0634 Change in network address for Haskins Lab](#) A.M. McKenzie [April 1974] (TXT = 1098 bytes) (Status: UNKNOWN)

[0633 IMP/TIP preventive maintenance schedule](#) A.M. McKenzie [March 1974] (TXT = 3733 bytes)(Obsoleted by [RFC0638](#)) (Status: UNKNOWN)

[0632 Throughput degradations for single packet messages](#) H. Opderbeck [May 1974] (TXT = 14563 bytes) (Status: UNKNOWN)

[0631 International meeting on minicomputers and data communication: Call for papers](#) A. Danthine [April 1974] (TXT = 2707 bytes) (Status: UNKNOWN)

[0630 FTP error code usage for more reliable mail service](#) J. Sussman [April 1974] (TXT = 4070 bytes) (Status: UNKNOWN)

[0629 Scenario for using the Network Journal](#) J.B. North [March 1974] (TXT = 4504 bytes) (Status: UNKNOWN)

[0628 Status of RFC numbers and a note on pre-assigned journal numbers](#) M.L. Keeney [March 1974] (TXT = 1036 bytes) (Status: UNKNOWN)

[0627 ASCII text file of hostnames](#) M.D. Kudlick, E.J. Feinler [March 1974] (TXT = 2007 bytes) (Status: UNKNOWN)

[0626 On a possible lockup condition in IMP subnet due to message sequencing](#) L. Kleinrock, H. Opderbeck [March 1974] (TXT = 13150 bytes) (Status: UNKNOWN)

[0625 On-line hostnames service](#) M.D. Kudlick, E.J. Feinler [March 1974] (TXT = 2172 bytes) (Status: UNKNOWN)

[0624 Comments on the File Transfer Protocol](#) M. Krilanovich, G. Gregg, W. Hathaway, J.E. White [February 1974] (TXT = 10105 bytes)(Obsoletes [RFC0607](#)) (Status: UNKNOWN)

[0623 Comments on on-line host name service](#) M. Krilanovich [February 1974] (TXT = 3740 bytes) (Status: UNKNOWN)

[0622 Scheduling IMP/TIP down time](#) A.M. McKenzie [March 1974] (TXT = 4367 bytes) (Status: UNKNOWN)

[0621 NIC user directories at SRI ARC](#) M.D. Kudlick [March 1974] (TXT = 1351 bytes) (Status: UNKNOWN)

[0620 Request for monitor host table updates](#) B. Ferguson [March 1974] (TXT = 1950 bytes) (Status: UNKNOWN)

[0619 Mean round-trip times in the ARPANET](#) W. Naylor, H. Opderbeck [March 1974] (TXT = 30946 bytes) (Status: UNKNOWN)

[0618 Few observations on NCP statistics](#) E.A. Taft [February 1974] (TXT = 4929 bytes) (Status: UNKNOWN)

[0617 Note on socket number assignment](#) E.A. Taft [February 1974] (TXT = 8062 bytes) (Status: UNKNOWN)

[0616 LATEST NETWORK MAPS](#) D. Walden [February 1973] (TXT, PDF = 848, 117083 bytes) (Status: UNKNOWN)

[0615 Proposed Network Standard Data Pathname syntax](#) D. Crocker [March 1974] (TXT = 9448 bytes)(Obsoleted by RFC0645) (Status: UNKNOWN)

[0614 Response to RFC 607: "Comments on the File Transfer Protocol"](#) K.T. Pogran, N. Neigus [January 1974] (TXT = 11409 bytes)(Updates [RFC0542](#), [RFC0607](#)) (Status: UNKNOWN)

[0613 Network connectivity: A response to RFC 603](#) A.M. McKenzie [January 1974] (TXT = 2557 bytes)(Updates [RFC0603](#)) (Status: UNKNOWN)

[0612 Traffic statistics \(December 1973\)](#) A.M. McKenzie [January 1974] (TXT = 9667 bytes) (Status: UNKNOWN)

[0611 Two changes to the IMP/Host Protocol to improve user/network communications](#) D.C. Walden [February 1974] (TXT = 7481 bytes) (Status: UNKNOWN)

[0610 Further datalanguage design concepts](#) R. Winter, J. Hill, W. Greiff [December 1973] (TXT = 198692 bytes) (Status: UNKNOWN)

[0609 Statement of upcoming move of NIC/NLS service](#) B. Ferguson [January 1974] (TXT = 1260 bytes) (Status: UNKNOWN)

[0608 Host names on-line](#) M.D. Kudlick [January 1974] (TXT = 7010 bytes)(Obsoleted by [RFC0810](#)) (Status: UNKNOWN)

[0607 Comments on the File Transfer Protocol](#) M. Krilanovich, G. Gregg [January 1974] (TXT = 8652 bytes)(Obsoleted by [RFC0624](#)) (Updated by [RFC0614](#)) (Status: UNKNOWN)

[0606 Host names on-line](#) L.P. Deutsch [December 1973] (TXT = 6855 bytes) (Status: UNKNOWN)

0605 Not Issued.

[0604 Assigned link numbers](#) J. Postel [December 1973] (TXT = 2758 bytes)(Obsoletes [RFC0317](#)) (Obsoleted by [RFC0739](#)) (Status: UNKNOWN)

[0603 Response to RFC 597: Host status](#) J.D. Burchfiel [December 1973] (TXT = 1482 bytes)(Updates [RFC0597](#)) (Updated by [RFC0613](#)) (Status: UNKNOWN)

[0602 "The stockings were hung by the chimney with care"](#) R.M. Metcalfe [December 1973] (TXT = 1988 bytes) (Status: UNKNOWN)

[0601 Traffic statistics \(November 1973\)](#) A.M. McKenzie [December 1973] (TXT = 9100 bytes) (Status: UNKNOWN)

[0600 Interfacing an Illinois plasma terminal to the ARPANET](#) A. Berggreen [November 1973] (PDF = 213041 bytes) (Status: UNKNOWN)

[0599 Update on NETRJS](#) R.T. Braden [December 1973] (TXT = 16590 bytes)(Obsoletes [RFC0189](#)) (Obsoleted by [RFC0740](#)) (Status: UNKNOWN)

[0598 RFC index - December 5, 1973](#) Network Information Center. Stanford Research Institute [December 1973] (PDF = 1078956 bytes) (Status: UNKNOWN)

[0597 Host status](#) N. Neigus, E.J. Feinler [December 1973] (TXT = 11678 bytes)(Updated by [RFC0603](#)) (Status: UNKNOWN)

[0596 Second thoughts on Telnet Go-Ahead](#) E.A. Taft [December 1973] (TXT = 11919 bytes) (Status: UNKNOWN)

[0595 Second thoughts in defense of the Telnet Go-Ahead](#) W. Hathaway [December 1973] (TXT = 13507 bytes) (Status: UNKNOWN)

[0594 Speedup of Host-IMP interface](#) J.D. Burchfiel [December 1973] (PDF = 182977 bytes) (Status: UNKNOWN)

[0593 Telnet and FTP implementation schedule change](#) A.M. McKenzie, J. Postel [November 1973] (TXT = 2506 bytes) (Status: UNKNOWN)

[0592 Some thoughts on system design to facilitate resource sharing](#) R.W. Watson [November 1973] (PDF = 289505 bytes) (Status: UNKNOWN)

[0591 Addition to the Very Distant Host specifications](#) D.C. Walden [November 1973] (TXT = 901 bytes) (Status: UNKNOWN)

[0590 MULTICS address change](#) M.A. Padlipsky [November 1973] (TXT = 1436 bytes) (Status: UNKNOWN)

[0589 CCN NETRJS server messages to remote user](#) R.T. Braden [November 1973] (TXT = 7998 bytes) (Status: UNKNOWN)

[0588 London node is now up](#) A.V. Stokes [October 1973] (PDF = 180352 bytes) (Status: UNKNOWN)

[0587 Announcing New Telnet Options](#) J. Postel [November 1973] (TXT = 832 bytes) (Status: UNKNOWN)

[0586 Traffic statistics \(October 1973\)](#) A.M. McKenzie [November 1973] (PDF = 231714 bytes)(Updates RFC0579) (Status: UNKNOWN)

[0585 ARPANET users interest working group meeting](#) D. Crocker, N. Neigus, E.J. Feinler, J. Iseli [November 1973] (TXT = 18243 bytes) (Status: UNKNOWN)

[0584 Charter for ARPANET Users Interest Working Group](#) J. Iseli, D. Crocker, N. Neigus [November 1973] (TXT = 3461 bytes) (Status: UNKNOWN)

0583 Not Issued.

[0582 Comments on RFC 580: Machine readable protocols](#) R. Clements [November 1973] (TXT = 1635 bytes)(Updates [RFC0580](#)) (Status: UNKNOWN)

[0581 Corrections to RFC 560: Remote Controlled Transmission and Echoing Telnet Option](#) D. Crocker, J. Postel [November 1973] (PDF = 385657 bytes)(Updates [RFC0560](#)) (Status: UNKNOWN)

[0580 Note to Protocol Designers and Implementers](#) J. Postel [October 1973] (TXT = 1451 bytes)(Updated by [RFC0582](#)) (Status: UNKNOWN)

[0579 Traffic statistics \(September 1973\)](#) A.M. McKenzie [November 1973] (PDF = 283306 bytes)(Updates [RFC0566](#)) (Updated by RFC0586) (Status: UNKNOWN)

[0578 Using MIT-Mathlab MACSYMA from MIT-DMS Muddle](#) A.K. Bhushan, N.D. Ryan [October 1973] (PDF = 1044808 bytes) (Status: UNKNOWN)

[0577 Mail priority](#) D. Crocker [October 1973] (PDF = 91292 bytes) (Status: UNKNOWN)

[0576 Proposal for modifying linking](#) K. Victor [September 1973] (PDF = 175955 bytes) (Status: UNKNOWN)

0575 Not Issued.

[0574 Announcement of a Mail Facility at UCSB](#) M. Krilanovich [September 1973] (TXT, PDF = 1253, 40358 bytes) (Status: UNKNOWN)

[0573 DATA AND FILE TRANSFER - SOME MEASUREMENT RESULTS](#) A. Bhushan [September 1973] (TXT, PDF = 19474, 543794 bytes) (Status: UNKNOWN)

0572 Not Issued.

[0571 TENEX FTP PROBLEM](#) R. Braden [November 1973] (TXT = 1530 bytes) (Status: UNKNOWN)

[0570 Experimental input mapping between NVT ASCII and UCSB On Line System](#) J.R. Pickens [October 1973] (TXT, PS, PDF = 177, 488023, 375635 bytes) (Status: UNKNOWN)

[0569 NETED: A Common Editor for the ARPA Network](#) M.A. Padlipsky [October 1973] (TXT = 17717 bytes) (Status: HISTORIC)

[0568 Response to RFC 567 - cross country network bandwidth](#) J.M. McQuillan [September 1973] (TXT = 3244 bytes)(Updates [RFC0567](#)) (Status: UNKNOWN)

[0567 Cross Country Network Bandwidth](#) L.P. Deutsch [September 1973] (TXT = 1529 bytes)(Updated by [RFC0568](#)) (Status: UNKNOWN)

[0566 Traffic statistics \(August 1973\)](#) A.M. McKenzie [September 1973] (TXT = 6674 bytes)(Updated by RFC0579) (Status: UNKNOWN)

[0565 Storing network survey data at the datacomputer](#) D. Cantor [August 1973] (TXT = 9307 bytes) (Status: UNKNOWN)

0564 Not Issued.

[0563 Comments on the RCTE Telnet option](#) J. Davidson [August 1973] (TXT = 10788 bytes) (Status: UNKNOWN)

[0562 Modifications to the TELNET Specification](#) A.M. McKenzie [August 1973] (TXT, PDF = 2760, 79307 bytes)(Updates [RFC0495](#)) (Status: UNKNOWN)

[0561 Standardizing Network Mail Headers](#) A.K. Bhushan, K.T. Pogran, R.S. Tomlinson, J.E. White [September 1973] (TXT = 6159 bytes)(Updated by [RFC0680](#)) (Status: UNKNOWN)

[0560 Remote Controlled Transmission and Echoing Telnet option](#) D. Crocker, J. Postel [August 1973] (TXT, PDF = 22686, 649235 bytes)(Updated by RFC0581) (Status: UNKNOWN)

[0559 Comments on The New Telnet Protocol and its Implementation](#) A.K. Bushan [August 1973] (TXT = 10643 bytes) (Status: UNKNOWN)

0558 Not Issued.

[0557 REVELATIONS IN NETWORK HOST MEASUREMENTS](#) B.D. Wessler [August 1973] (TXT, PDF = 3167, 90256 bytes) (Status: UNKNOWN)

[0556 Traffic Statistics \(July 1973\)](#) A.M. McKenzie [August 1973] (TXT, PDF = 6648, 142156 bytes)(Updates [RFC0538](#)) (Status: UNKNOWN)

[0555 Responses to critiques of the proposed mail protocol](#) J.E. White [July 1973] (TXT = 21521 bytes) (Status: UNKNOWN)

0554 Not Issued.

[0553 Draft design for a text/graphics protocol](#) C.H. Irby, K. Victor [July 1973] (TXT = 35414 bytes) (Status: UNKNOWN)

[0552 Single access to standard protocols](#) A.D. Owen [July 1973] (TXT = 1404 bytes) (Status: UNKNOWN)

[0551 NYU, ANL, and LBL Joining the Net](#) Y. Feinroth, R. Fink [August 1973] (PDF = 73188 bytes) (Status: UNKNOWN)

[0550 NIC NCP experiment](#) L.P. Deutsch [August 1973] (TXT = 3688 bytes) (Status: UNKNOWN)

[0549 Minutes of Network Graphics Group meeting, 15-17 July 1973](#) J.C. Michener [July 1973] (TXT = 23367 bytes) (Status: UNKNOWN)

[0548 Hosts using the IMP Going Down message](#) D.C. Walden [August 1973] (TXT = 1435 bytes) (Status: UNKNOWN)

[0547 Change to the Very Distant Host specification](#) D.C. Walden [August 1973] (TXT = 6236 bytes) (Status: UNKNOWN)

[0546 Tenex load averages for July 1973](#) R. Thomas [August 1973] (TXT, PS, PDF = 6632, 356023, 268918 bytes) (Status: UNKNOWN)

[0545 Of what quality be the UCSB resources evaluators?](#) J.R. Pickens [July 1973] (TXT = 3754 bytes) (Status: UNKNOWN)

[0544 Locating on-line documentation at SRI-ARC](#) N.D. Meyer, K. Kelley [July 1973] (TXT = 1541 bytes) (Status: UNKNOWN)

[0543 Network journal submission and delivery](#) N.D. Meyer [July 1973] (TXT = 15621 bytes) (Status: UNKNOWN)

[0542 File Transfer Protocol](#) N. Neigus [August 1973] (TXT = 100666 bytes)(Obsoletes [RFC0354](#)) (Obsoleted by [RFC0765](#)) (Updated by [RFC0614](#), [RFC0640](#)) (Also [RFC0454](#), [RFC0495](#)) (Status: UNKNOWN)

0541 Not Issued.

0540 Not Issued.

[0539 Thoughts on the mail protocol proposed in RFC 524](#) D. Crocker, J. Postel [July 1973] (TXT = 6213 bytes) (Status: UNKNOWN)

[0538 Traffic statistics \(June 1973\)](#) A.M. McKenzie [July 1973] (TXT = 6389 bytes)(Updated by [RFC0556](#)) (Status: UNKNOWN)

[0537 Announcement of NGG meeting July 16-17](#) S. Bunch [June 1973] (TXT = 2695 bytes) (Status: UNKNOWN)

0536 Not Issued.

[0535 Comments on File Access Protocol](#) R. Thomas [July 1973] (PDF = 239916 bytes) (Status: UNKNOWN)

[0534 Lost message detection](#) D.C. Walden [July 1973] (TXT = 3227 bytes) (Status: UNKNOWN)

[0533 Message-ID numbers](#) D.C. Walden [July 1973] (TXT = 2102 bytes) (Status: UNKNOWN)

[0532 UCSD-CC Server-FTP facility](#) R.G. Merryman [July 1973] (TXT = 7298 bytes) (Status: UNKNOWN)

[0531 Feast or famine? A response to two recent RFC's about network information](#) M.A. Padlipsky [June 1973] (TXT = 5070 bytes) (Status: UNKNOWN)

[0530 Report on the Survey Project](#) A.K. Bhushan [June 1973] (PDF = 408102 bytes)(Updates [RFC0308](#), [RFC0523](#)) (Status: UNKNOWN)

[0529 Note on protocol synch sequences](#) A.M. McKenzie, R. Thomas, R.S. Tomlinson, K.T. Pogran [June 1973] (TXT = 9068 bytes) (Status: UNKNOWN)

[0528 Software checksumming in the IMP and network reliability](#) J.M. McQuillan [June 1973] (TXT = 23152 bytes) (Status: UNKNOWN)

[0527 ARPAWOCKY](#) R. Merryman [May 1973] (TXT = 1857 bytes) (Status: UNKNOWN)

[0526 Technical meeting: Digital image processing software systems](#) W.K. Pratt [June 1973] (TXT = 4062 bytes) (Status: UNKNOWN)

[0525 MIT-MATHLAB meets UCSB-OLS -an example of resource sharing](#) W. Parrish, J.R. Pickens [June 1973] (TXT, PS, PDF = 18501, 304440, 228274 bytes) (Status: UNKNOWN)

[0524 Proposed Mail Protocol](#) J.E. White [June 1973] (TXT = 75385 bytes) (Status: UNKNOWN)

[0523 SURVEY is in operation again](#) A.K. Bhushan [June 1973] (TXT = 2852 bytes) (Status: UNKNOWN)

[0522 Traffic Statistics \(May 1973\)](#) A.M. McKenzie [June 1973] (PDF = 163705 bytes)(Updates [RFC0509](#)) (Status: UNKNOWN)

[0521 Restricted use of IMP DDT](#) A.M. McKenzie [May 1973] (TXT = 3724 bytes) (Status: UNKNOWN)

[0520 Memo to FTP group: Proposal for File Access Protocol](#) J.D. Day [June 1973] (TXT = 16825 bytes) (Status: UNKNOWN)

0519 **Resource Evaluation** J.R. Pickens [June 1973] (TXT, PDF = 7750, 224969 bytes) (Status: UNKNOWN)

0518 **ARPANET accounts** N. Vaughan, E.J. Feinler [June 1973] (TXT = 12880 bytes) (Status: UNKNOWN)

0517 Not Issued.

0516 **Lost message detection** J. Postel [May 1973] (TXT = 4086 bytes) (Status: UNKNOWN)

0515 **Specifications for Datalanguage, Version 0/9** R. Winter [June 1973] (TXT = 60557 bytes) (Status: UNKNOWN)

0514 **Network make-work** W. Kantrowitz [June 1973] (TXT = 8734 bytes) (Status: UNKNOWN)

0513 **Comments on the new Telnet specifications** W. Hathaway [May 1973] (TXT = 7980 bytes) (Status: UNKNOWN)

0512 **More on lost message detection** W. Hathaway [May 1973] (TXT = 3641 bytes) (Status: UNKNOWN)

0511 **Enterprise phone service to NIC from ARPANET sites** J.B. North [May 1973] (TXT = 4664 bytes) (Status: UNKNOWN)

0510 **Request for network mailbox addresses** J.E. White [May 1973] (TXT = 4150 bytes) (Status: UNKNOWN)

0509 **Traffic statistics (April 1973)** A.M. McKenzie [April 1973] (TXT = 6538 bytes) (Status: UNKNOWN)

0508 **Real-time data transmission on the ARPANET** L. Pfeifer, J. McAfee [May 1973] (TXT = 25002 bytes) (Status: UNKNOWN)

0507 Not Issued.

0506 **FTP command naming problem** M.A. Padlipsky [June 1973] (TXT = 1974 bytes) (Status: UNKNOWN)

0505 **Two solutions to a file transfer access problem** M.A. Padlipsky [June 1973] (TXT = 7476 bytes) (Status: UNKNOWN)

0504 **Distributed resources workshop announcement** R. Thomas [April 1973] (TXT = 9061 bytes) (Status: UNKNOWN)

0503 **Socket number list** N. Neigus, J. Postel [April 1973] (TXT = 8690 bytes)(Obsoletes [RFC0433](#)) (Obsoleted by [RFC0739](#)) (Status: UNKNOWN)

0502 Not Issued.

0501 **Un-muddling "free file transfer"** K.T. Pogran [May 1973] (TXT = 13177 bytes) (Status: UNKNOWN)

0500 **Integration of data management systems on a computer network** A. Shoshani, I. Spiegler [April 1973] (Status: UNKNOWN)

0499 **Harvard's network RJE** B.R. Reussow [April 1 1973] (TXT = 12584 bytes) (Status: UNKNOWN)

0498 **On mail service to CCN** R.T. Braden [April 1973] (TXT = 5315 bytes) (Status: UNKNOWN)

0497 **Traffic Statistics (March 1973)** A.M. McKenzie [April 1973] (TXT, PDF = 6078, 191264 bytes)(Updates [RFC0482](#)) (Status: UNKNOWN)

0496 **TNLS quick reference card is available** M.F. Auerbach [April 1973] (TXT = 1110 bytes) (Status: UNKNOWN)

0495 **Telnet Protocol specifications** A.M. McKenzie [May 1973] (TXT = 4260 bytes)(Obsoletes [RFC0158](#)) (Updated by [RFC0562](#)) (Status: UNKNOWN)

0494 **Availability of MIX and MIXAL in the Network** D.C. Walden [April 1973] (TXT = 2007 bytes) (Status: UNKNOWN)

0493 **GRAPHICS PROTOCOL** J.C. Michener, I.W. Cotton, K.C. Kelley, D.E. Liddle, E. Meyer [April 1973] (TXT, PDF = 67843, 1563891 bytes)(Obsoletes [RFC0292](#)) (Status: UNKNOWN)

0492 **Response to RFC 467** E. Meyer [April 1973] (TXT = 18791 bytes)(Updates [RFC0467](#)) (Status: UNKNOWN)

0491 **What is "Free"?** M.A. Padlipsky [April 1973] (TXT = 5872 bytes) (Status: UNKNOWN)

0490 **Surrogate RJS for UCLA-CCN** J.R. Pickens [March 1973] (TXT = 9858 bytes) (Status: UNKNOWN)

0489 **Comment on resynchronization of connection status proposal** J. Postel [March 1973] (TXT = 2010 bytes) (Status: UNKNOWN)

0488 **NLS classes at network sites** M.F. Auerbach [March 1973] (TXT = 3806 bytes) (Status: UNKNOWN)

0487 **Free file transfer** R.D. Bressler [April 1973] (TXT = 3249 bytes) (Status: UNKNOWN)

0486 **Data transfer revisited** R.D. Bressler [March 1973] (TXT = 4664 bytes) (Status: UNKNOWN)

0485 **MIX and MIXAL at UCSB** J.R. Pickens [March 1973] (TXT = 2226 bytes) (Status: UNKNOWN)

0484 Not Issued.

0483 **Cancellation of the resource notebook framework meeting** M.D. Kudlick [March 1973] (TXT = 1021 bytes) (Status: UNKNOWN)

0482 **Traffic statistics (February 1973)** A.M. McKenzie [March 1973] (TXT = 6162 bytes)(Updated by [RFC0497](#)) (Status: UNKNOWN)

0481 Not Issued.

0480 **Host-dependent FTP parameters** J.E. White [March 1973] (TXT = 2084 bytes) (Status: UNKNOWN)

0479 **Use of FTP by the NIC Journal** J.E. White [March 1973] (TXT = 11183 bytes) (Status: UNKNOWN)

0478 **FTP server-server interaction - II** R.D. Bressler, R. Thomas [March 1973] (TXT = 4199 bytes) (Status: UNKNOWN)

0477 **Remote Job Service at UCSB** M. Krillanovich [May 1973] (TXT = 40535 bytes) (Status: UNKNOWN)

0476 **IMP/TIP memory retrofit schedule (rev 2)** A.M. McKenzie [March 1973] (TXT = 2281 bytes)(Obsoletes [RFC0447](#)) (Status: UNKNOWN)

0475 **FTP and Network Mail System** A.K. Bhushan [March 1973] (PDF = 600361 bytes) (Status: UNKNOWN)

0474 **Announcement of NGWG meeting: Call for papers** S. Bunch [March 1973] (TXT = 1170 bytes)(Updates [RFC0396](#)) (Status: UNKNOWN)

0473 **MIX and MIXAL?** D.C. Walden [February 1973] (TXT = 868 bytes) (Status: UNKNOWN)

0472 **Illinois' reply to Maxwell's request for graphics information (NIC 14925)** S. Bunch [March 1973] (TXT = 4780 bytes) (Status: UNKNOWN)

0471 **Workshop on multi-site executive programs** R. Thomas [March 1973] (TXT = 3339 bytes) (Status: UNKNOWN)

0470 **Change in socket for TIP news facility** R. Thomas [March 1973] (TXT = 1014 bytes) (Status: UNKNOWN)

0469 **Network mail meeting summary** M.D. Kudlick [March 1973] (TXT = 17774 bytes) (Status: UNKNOWN)

0468 **FTP data compression** R.T. Braden [March 1973] (TXT = 14909 bytes) (Status: UNKNOWN)

0467 **Proposed change to Host-Host Protocol: Resynchronization of connection status** J.D. Burchfiel, R.S. Tomlinson [February 1973] (TXT = 14325 bytes)(Updated by [RFC0492](#)) (Status: UNKNOWN)

0466 **Telnet logger/server for host LL-67** J.M. Winett [February 1973] (TXT = 17595 bytes) (Status: UNKNOWN)

0465 Not Issued.

0464 **Resource notebook framework** M.D. Kudlick [February 1973] (TXT = 3684 bytes) (Status: UNKNOWN)

0463 **FTP comments and response to RFC 430** A.K. Bhushan [February 1973] (TXT = 5729 bytes) (Status: UNKNOWN)

0462 **Responding to user needs** J. Iseli, D. Crocker [February 1973] (TXT = 2808 bytes) (Status: UNKNOWN)

0461 **Telnet Protocol meeting announcement** A.M. McKenzie [February 1973] (TXT = 1966 bytes) (Status: UNKNOWN)

0460 **NCP survey** C. Kline [February 1973] (TXT = 10324 bytes) (Status: UNKNOWN)

0459 **Network questionnaires** W. Kantrowitz [February 1973] (TXT = 1950 bytes) (Status: UNKNOWN)

0458 **Mail retrieval via FTP** R.D. Bressler, R. Thomas [February 1973] (TXT = 2705 bytes) (Status: UNKNOWN)

0457 **TIPUG** D.C. Walden [February 1973] (TXT = 845 bytes) (Status: UNKNOWN)

0456 **Memorandum: Date change of mail meeting** M.D. Kudlick [February 1973] (TXT = 950 bytes) (Status: UNKNOWN)

0455 **Traffic statistics (January 1973)** A.M. McKenzie [February 1973] (TXT = 5746 bytes) (Status: UNKNOWN)

0454 **File Transfer Protocol - meeting announcement and a new proposed document** A.M. McKenzie [February 1973] (TXT = 78966 bytes)(Updates [RFC0354](#)) (Status: UNKNOWN)

0453 **Meeting announcement to discuss a network mail system** M.D. Kudlick [February 1973] (TXT = 4572 bytes) (Status: UNKNOWN)

0452 **TELNET Command at Host** LL J. Winett [February 1973] (TXT, PDF = 28415, 777983 bytes) (Status: UNKNOWN)

0451 **Tentative proposal for a Unified User Level Protocol** M.A. Padlipsky [February 1973] (TXT = 8114 bytes) (Status: UNKNOWN)

0450 **MULTICS sampling timeout change** M.A. Padlipsky [February 1973] (TXT = 924 bytes) (Status: UNKNOWN)

0449 **Current flow-control scheme for IMPSYS** D.C. Walden [January 1973] (TXT = 1662 bytes)(Updates [RFC0442](#)) (Status: UNKNOWN)

0448 **Print files in FTP** R.T. Braden [February 1973] (TXT = 6838 bytes) (Status: UNKNOWN)

0447 **IMP/TIP memory retrofit schedule** A.M. McKenzie [January 1973] (TXT = 2332 bytes)(Obsoletes [RFC0434](#)) (Obsoleted by [RFC0476](#)) (Status: UNKNOWN)

0446 **Proposal to consider a network program resource notebook** L.P. Deutsch [January 1973] (TXT = 3053 bytes) (Status: UNKNOWN)

0445 **IMP/TIP preventive maintenance schedule** A.M. McKenzie [January 1973] (TXT = 2668 bytes) (Status: UNKNOWN)

0444 Not Issued.

0443 **Traffic statistics (December 1972)** A.M. McKenzie [January 1973] (TXT = 5664 bytes) (Status: UNKNOWN)

0442 **Current flow-control scheme for IMPSYS** V. Cerf [January 1973] (TXT = 16315 bytes)(Updated by [RFC0449](#)) (Status: UNKNOWN)

0441 **Inter-Entity Communication - an experiment** R.D. Bressler, R. Thomas [January 1973] (TXT = 12876 bytes) (Status: UNKNOWN)

0440 **Scheduled network software maintenance** D.C. Walden [January 1973] (TXT = 1870 bytes) (Status: UNKNOWN)

0439 **PARRY encounters the DOCTOR** V. Cerf [January 1973] (TXT = 7066 bytes) (Status: UNKNOWN)

0438 **FTP server-server interaction** R. Thomas, R. Clements [January 1973] (TXT = 6514 bytes) (Status: UNKNOWN)

0437 **Data Reconfiguration Service at UCSB** E. Faeh [June 1973] (TXT = 21562 bytes) (Status: UNKNOWN)

0436 **Announcement of RJS at UCSB** M. Krilanovich [January 1973] (TXT = 2579 bytes) (Status: UNKNOWN)

0435 **Telnet issues** B. Cosell, D.C. Walden [January 1973] (TXT = 23019 bytes)(Updates [RFC0318](#)) (Status: UNKNOWN)

0434 **IMP/TIP memory retrofit schedule** A.M. McKenzie [January 1973] (TXT = 2242 bytes)(Obsoleted by [RFC0447](#)) (Status: UNKNOWN)

0433 **Socket number list** J. Postel [December 1972] (TXT = 6834 bytes)(Obsoletes [RFC0349](#)) (Obsoleted by [RFC0503](#)) (Status: UNKNOWN)

0432 **Network logical map** N. Neigus [December 1972] (TXT, PDF, PS = 1291, 148880, 1344571 bytes) (Status: UNKNOWN)

0431 **Update on SMFS Login and Logout** M. Krilanovich [December 1972] (TXT = 4196 bytes)(Obsoletes [RFC0399](#)) (Updates [RFC0122](#)) (Status: UNKNOWN)

0430 **Comments on File Transfer Protocol** R.T. Braden [February 1973] (TXT = 18696 bytes) (Status: UNKNOWN)

0429 **Character Generator Process** J. Postel [December 1972] (TXT = 1319 bytes) (Status: UNKNOWN)

0428 Not Issued.

0427 Not Issued.

0426 **Reconnection Protocol** R. Thomas [January 1973] (TXT = 26548 bytes) (Status: UNKNOWN)

0425 **"But my NCP costs \$500 a day"** R.D. Bressler [December 1972] (TXT = 1763 bytes) (Status: UNKNOWN)

0424 Not Issued.

0423 **UCLA Campus Computing Network Liaison Staff for ARPANET** B. Noble [December 1972] (TXT = 2890 bytes)(Obsoletes [RFC0389](#)) (Status: UNKNOWN)

0422 **Traffic statistics (November 1972)** A.M. McKenzie [December 1972] (TXT = 5494 bytes) (Status: UNKNOWN)

0421 **Software Consulting Service for Network Users** A.M. McKenzie [November 1972] (TXT = 2483 bytes) (Status: UNKNOWN)

0420 **CCA ICCC weather demo** H. Murray [January 1973] (TXT = 14752 bytes) (Status: UNKNOWN)

0419 **To: Network liaisons and station agents** A. Vezza [December 1972] (TXT = 1252 bytes) (Status: UNKNOWN)

0418 **Server File Transfer Under TSS/360 At NASA-Ames Research Center** W. Hathaway [November 1972] (PDF = 1080191 bytes) (Status: UNKNOWN)

0417 **Link usage violation** J. Postel, C. Kline [December 1972] (TXT = 901 bytes) (Status: UNKNOWN)

0416 **ARC System Will Be Unavailable for Use During Thanksgiving Week** J.C. Norton [November 1972] (TXT = 2205 bytes) (Status: UNKNOWN)

0415 **Tenex bandwidth** H. Murray [November 1972] (TXT = 3456 bytes) (Status: UNKNOWN)

0414 **File Transfer Protocol (FTP) status and further comments** A.K. Bhushan [December 1972] (TXT = 12845 bytes)(Updates [RFC0385](#)) (Status: UNKNOWN)

0413 **Traffic statistics (October 1972)** A.M. McKenzie [November 1972] (TXT = 16145 bytes) (Status: UNKNOWN)

0412 **User FTP Documentation** G. Hicks [November 1972] (TXT = 17510 bytes) (Status: UNKNOWN)

0411 **New MULTICS Network Software Features** M.A. Padlipsky [November 1972] (TXT = 3024 bytes) (Status: UNKNOWN)

0410 **Removal of the 30-Second Delay When Hosts Come Up** J.M. McQuillan [November 1972] (TXT = 3964 bytes) (Status: UNKNOWN)

0409 **Tenex interface to UCSB's Simple-Minded File System** J.E. White [December 1972] (TXT = 14231 bytes) (Status: UNKNOWN)

0408 **NETBANK** A.D. Owen, J. Postel [October 1972] (TXT = 1645 bytes) (Status: UNKNOWN)

0407 **Remote Job Entry Protocol** R.D. Bressler, R. Guida, A.M. McKenzie [October 1972] (TXT = 47556 bytes)(Obsoletes [RFC0360](#)) (Status: HISTORIC)

0406 **Scheduled IMP Software Releases** J.M. McQuillan [October 1972] (TXT = 2468 bytes) (Status: UNKNOWN)

0405 **Correction to RFC 404** A.M. McKenzie [October 1972] (TXT = 1103 bytes)(Updates [RFC0404](#)) (Status: UNKNOWN)

0404 **Host Address Changes Involving Rand and ISI** A.M. McKenzie [October 1972] (TXT = 944 bytes)(Updated by [RFC0405](#)) (Status: UNKNOWN)

0403 **Desirability of a Network 1108 Service** G. Hicks [January 1973] (PDF = 219744 bytes) (Status: UNKNOWN)

0402 **ARPA Network Mailing Lists** J.B. North [October 1972] (TXT = 28162 bytes)(Obsoletes [RFC0363](#)) (Status: UNKNOWN)

0401 **Conversion of NGP-0 Coordinates to Device Specific Coordinates** J. Hansen [October 1972] (TXT = 3894 bytes)(Updates [RFC0387](#)) (Status: UNKNOWN)

0400 **Traffic Statistics (September 1972)** A.M. McKenzie [October 1972] (TXT = 5435 bytes) (Status: UNKNOWN)

0399 **SMFS Login and Logout** M. Krilanovich [September 1972] (TXT = 3024 bytes)(Obsoleted by [RFC0431](#)) (Updates [RFC0122](#)) (Status: UNKNOWN)

0398 **ICP Sockets** J.R. Pickens, E. Faeh [September 1972] (TXT = 3846 bytes) (Status: UNKNOWN)

0397 Not Issued.

0396 **Network Graphics Working Group Meeting - Second Iteration** S. Bunch [November 1972] (TXT = 2224 bytes)(Updated by [RFC0474](#)) (Status: UNKNOWN)

0395 **Switch Settings on IMPs and TIPs** J.M. McQuillan [October 1972] (TXT = 1827 bytes) (Status: UNKNOWN)

0394 **Two Proposed Changes to the IMP-Host Protocol** J.M. McQuillan [September 1972] (TXT = 5780 bytes)(Updates [RFC0381](#)) (Status: UNKNOWN)

0393 **Comments on Telnet Protocol Changes** J.M. Winett [October 1972] (TXT = 9435 bytes)(Also [RFC0109](#), [RFC0139](#), [RFC0158](#), [RFC0318](#), [RFC0328](#)) (Status: UNKNOWN)

0392 **Measurement of host costs for transmitting network data** G. Hicks, B.D. Wessler [September 1972] (TXT = 14462 bytes) (Status: UNKNOWN)

0391 **Traffic statistics (August 1972)** A.M. McKenzie [September 1972] (TXT = 4695 bytes)(Obsoletes [RFC0378](#)) (Status: UNKNOWN)

0390 **TSO Scenario** R.T. Braden [September 1972] (TXT = 6103 bytes) (Status: UNKNOWN)

0389 **UCLA Campus Computing Network Liaison Staff for ARPA Network** B. Noble [August 1972] (TXT = 2819 bytes)(Obsoleted by [RFC0423](#)) (Status: UNKNOWN)

0388 **NCP statistics** V. Cerf [August 1972] (TXT = 8458 bytes)(Updates [RFC0323](#)) (Status: UNKNOWN)

0387 **Some experiences in implementing Network Graphics Protocol Level 0** K.C. Kelley, J. Meir [August 1972] (TXT = 9059 bytes)(Updated by [RFC0401](#)) (Status: UNKNOWN)

0386 **Letter to TIP users-2** B. Cosell, D.C. Walden [August 1972] (TXT = 12475 bytes) (Status: UNKNOWN)

0385 **Comments on the File Transfer Protocol** A.K. Bhushan [August 1972] (TXT = 13030 bytes)(Updates [RFC0354](#)) (Updated by [RFC0414](#)) (Status: UNKNOWN)

0384 **Official site idents for organizations in the ARPA Network** J.B. North [August 1972] (TXT = 10401 bytes)(Obsoletes [RFC0289](#)) (Status: UNKNOWN)
0383 Not Issued.

0382 **Mathematical Software on the ARPA Network** L. McDaniel [August 1972] (TXT = 2041 bytes) (Status: UNKNOWN)

0381 **Three aids to improved network operation** J.M. McQuillan [July 1972] (TXT = 9305 bytes)(Updated by [RFC0394](#)) (Status: UNKNOWN)
0380 Not Issued.

0379 **Using TSO at CCN** R. Braden [August 1972] (TXT = 8674 bytes) (Status: UNKNOWN)

0378 **Traffic statistics (July 1972)** A.M. McKenzie [August 1972] (TXT = 5730 bytes)(Obsoleted by [RFC0391](#)) (Status: UNKNOWN)

0377 **Using TSO via ARPA Network Virtual Terminal** R.T. Braden [August 1972] (TXT = 7093 bytes) (Status: UNKNOWN)

0376 **Network Host Status** E. Westheimer [August 1972] (TXT = 8861 bytes)(Updates [RFC0370](#)) (Status: UNKNOWN)
0375 Not Issued.

0374 **IMP System Announcement** A.M. McKenzie [July 1972] (TXT = 3963 bytes) (Status: UNKNOWN)

0373 **Arbitrary Character Sets** J. McCarthy [July 1972] (TXT = 7783 bytes) (Status: UNKNOWN)

0372 **Notes on a Conversation with Bob Kahn on the ICCC** R.W. Watson [July 1972] (TXT = 6040 bytes) (Status: UNKNOWN)

0371 **Demonstration at International Computer Communications Conference** R.E. Kahn [July 1972] (TXT = 3728 bytes) (Status: UNKNOWN)

0370 **Network Host Status** E. Westheimer [July 1972] (TXT = 8389 bytes)(Obsoletes [RFC0367](#)) (Updated by [RFC0376](#)) (Status: UNKNOWN)

0369 **Evaluation of ARPANET services January-March, 1972** J.R. Pickens [July 1972] (TXT = 24414 bytes) (Status: UNKNOWN)

0368 **Comments on "Proposed Remote Job Entry Protocol"** R.T. Braden [July 1972] (TXT = 3883 bytes) (Status: UNKNOWN)

0367 **Network host status** E. Westheimer [July 1972] (TXT = 8057 bytes)(Obsoletes [RFC0366](#)) (Obsoleted by [RFC0370](#)) (Status: UNKNOWN)

0366 **Network Host Status** E. Westheimer [July 1972] (TXT = 8278 bytes)(Obsoletes [RFC0362](#)) (Obsoleted by [RFC0367](#)) (Status: UNKNOWN)

0365 **Letter to All TIP Users** D.C. Walden [July 1972] (TXT = 10331 bytes) (Status: UNKNOWN)

0364 **Serving remote users on the ARPANET** M.D. Abrams [July 1972] (TXT = 11253 bytes) (Status: UNKNOWN)

0363 **ARPA Network mailing lists** Network Information Center. Stanford Research Institute [August 1972] (TXT = 25356 bytes)(Obsoletes [RFC0329](#)) (Obsoleted by [RFC0402](#)) (Status: UNKNOWN)

0362 **Network Host Status** E. Westheimer [June 1972] (TXT = 8631 bytes)(Obsoletes [RFC0353](#)) (Obsoleted by [RFC0366](#)) (Status: UNKNOWN)

0361 **Demon Processes on Host 106** R.D. Bressler [July 1972] (TXT = 1480 bytes) (Status: UNKNOWN)

0360 **Proposed Remote Job Entry Protocol** C. Holland [June 1972] (PDF = 1187574 bytes)(Obsoleted by [RFC0407](#)) (Status: UNKNOWN)

0359 **Status of the Release of the New IMP System (2600)** D.C. Walden [June 1972] (TXT = 2015 bytes)(Obsoletes [RFC0343](#)) (Status: UNKNOWN)
0358 Not Issued.

0357 **Echoing strategy for satellite links** J. Davidson [June 1972] (TXT = 30103 bytes) (Status: UNKNOWN)

0356 **ARPA Network Control Center** R. Alter [June 1972] (TXT = 1963 bytes) (Status: UNKNOWN)

0355 **Response to NWG/RFC 346** J. Davidson [June 1972] (TXT = 3717 bytes) (Status: UNKNOWN)

0354 **File Transfer Protocol** A.K. Bhushan [July 1972] (TXT = 58074 bytes)(Obsoletes [RFC0264](#), [RFC0265](#)) (Obsoleted by [RFC0542](#)) (Updated by [RFC0385](#), [RFC0454](#), [RFC0683](#)) (Status: UNKNOWN)

0353 **Network host status** E. Westheimer [June 1972] (TXT = 8747 bytes)(Obsoletes [RFC0344](#)) (Obsoleted by [RFC0362](#)) (Status: UNKNOWN)

0352 **TIP Site Information Form** D. Crocker [June 1972] (TXT = 2266 bytes) (Status: UNKNOWN)

0351 **Graphics information form for the ARPANET graphics resources notebook** D. Crocker [June 1972] (TXT = 2150 bytes) (Status: UNKNOWN)

0350 **User Accounts for UCSB On-Line System** R. Stoughton [May 1972] (TXT = 5117 bytes) (Status: UNKNOWN)

0349 **Proposed Standard Socket Numbers** J. Postel [May 1972] (TXT = 1663 bytes)(Obsoleted by [RFC0433](#)) (Also [RFC0322](#), [RFC0204](#)) (Status: UNKNOWN)

0348 **Discard Process** J. Postel [May 1972] (TXT = 1181 bytes) (Status: UNKNOWN)

0347 **Echo process** J. Postel [May 1972] (TXT = 1377 bytes) (Status: UNKNOWN)

0346 **Satellite Considerations** J. Postel [May 1972] (TXT = 2778 bytes) (Status: UNKNOWN)

0345 **Interest in Mixed Integer Programming (MPSX on NIC 360/91 at CCN)** K.C. Kelley [May 1972] (TXT = 1999 bytes) (Status: UNKNOWN)

0344 **Network Host Status** E. Westheimer [May 1972] (TXT = 8221 bytes)(Obsoletes [RFC0342](#)) (Obsoleted by [RFC0353](#)) (Status: UNKNOWN)

0343 **IMP System change notification** A.M. McKenzie [May 1972] (TXT = 3370 bytes)(Obsoletes [RFC0331](#)) (Obsoleted by [RFC0359](#)) (Status: UNKNOWN)

0342 **Network Host Status** E. Westheimer [May 1972] (TXT = 8382 bytes)(Obsoletes [RFC0332](#)) (Obsoleted by [RFC0344](#)) (Status: UNKNOWN)
0341 Not Issued.

0340 **Proposed Telnet Changes** T.C. O'Sullivan [May 1972] (TXT = 2656 bytes)(Also [RFC0328](#)) (Status: UNKNOWN)

0339 **MLTNET: A "Multi Telnet" Subsystem for Tenex** R. Thomas [May 1972] (TXT = 7941 bytes) (Status: UNKNOWN)

0338 **EBCDIC/ASCII Mapping for Network RJE** R.T. Braden [May 1972] (TXT, PS, PDF = 11494, 2386987, 1871020 bytes) (Status: UNKNOWN)
0337 Not Issued.

0336 **Level 0 Graphic Input Protocol** I.W. Cotton [May 1972] (TXT = 3787 bytes) (Status: UNKNOWN)

0335 **New Interface - IMP/360** R.F. Bryan [May 1972] (TXT = 934 bytes) (Status: UNKNOWN)

0334 **Network Use on May 8** A.M. McKenzie [May 1972] (TXT = 1376 bytes) (Status: UNKNOWN)

0333 **Proposed experiment with a Message Switching Protocol** R.D. Bressler, D. Murphy, D.C. Walden [May 1972] (TXT = 62507 bytes) (Status: UNKNOWN)

0332 **Network Host Status** E. Westheimer [April 1972] (TXT = 8427 bytes)(Obsoleted by [RFC0342](#)) (Updates [RFC0330](#)) (Status: UNKNOWN)

0331 **IMP System Change Notification** J.M. McQuillan [April 1972] (TXT = 2339 bytes)(Obsoleted by [RFC0343](#)) (Status: UNKNOWN)

0330 **Network Host Status** E. Westheimer [April 1972] (TXT = 8085 bytes)(Obsoletes [RFC0326](#)) (Updated by [RFC0332](#)) (Status: UNKNOWN)

0329 **ARPA Network Mailing Lists** Network Information Center. Stanford Research Institute [May 1972] (TXT = 23861 bytes)(Obsoletes [RFC0303](#)) (Obsoleted by [RFC0363](#)) (Status: UNKNOWN)

0328 **Suggested Telnet Protocol Changes** J. Postel [April 1972] (TXT = 2685 bytes) (Status: UNKNOWN)

0327 **Data and File Transfer workshop notes** A.K. Bhushan [April 1972] (TXT = 11792 bytes) (Status: UNKNOWN)

0326 **Network Host Status** E. Westheimer [April 1972] (TXT = 7944 bytes)(Obsoleted by [RFC0330](#)) (Updates [RFC0319](#)) (Status: UNKNOWN)

0325 **Network Remote Job Entry program - NETRJS** G. Hicks [April 1972] (TXT = 17499 bytes) (Status: UNKNOWN)

0324 **RJE Protocol meeting** J. Postel [April 1972] (TXT = 1176 bytes) (Status: UNKNOWN)

0323 **Formation of Network Measurement Group (NMG)** V. Cerf [March 1972] (TXT = 15777 bytes)(Updated by [RFC0388](#)) (Status: UNKNOWN)

0322 **Well known socket numbers** V. Cerf, J. Postel [March 1972] (TXT = 1735 bytes) (Status: UNKNOWN)

0321 **CBI Networking Activity at MITRE** P.M. Karp [March 1972] (TXT = 20500 bytes) (Status: UNKNOWN)

0320 **Workshop on Hard Copy Line Graphics** R. Reddy [March 1972] (PDF = 14422 bytes) (Status: UNKNOWN)

0319 **Network Host Status** E. Westheimer [March 1972] (TXT = 8955 bytes)(Obsoletes [RFC0315](#)) (Updated by [RFC0326](#)) (Status: UNKNOWN)

0318 **Telnet Protocols** J. Postel [April 1972] (TXT = 34098 bytes)(Updates [RFC0158](#)) (Updated by [RFC0435](#)) (Also [RFC0139](#), [RFC0158](#)) (Status: UNKNOWN)

0317 **Official Host-Host Protocol Modification: Assigned Link Numbers** J. Postel [March 1972] (TXT = 1593 bytes)(Obsoleted by [RFC0604](#)) (Status: UNKNOWN)

0316 **ARPA Network Data Management Working Group** D.B. McKay, A.P. Mullery [February 1972] (TXT = 15494 bytes) (Status: UNKNOWN)

0315 **Network Host Status** E. Westheimer [March 1972] (TXT = 7818 bytes)(Obsoletes [RFC0306](#)) (Obsoleted by [RFC0319](#)) (Status: UNKNOWN)

0314 **Network Graphics Working Group Meeting** I.W. Cotton [March 1972] (TXT = 1836 bytes) (Status: UNKNOWN)

0313 **Computer based instruction** T.C. O'Sullivan [March 1972] (TXT = 19880 bytes) (Status: UNKNOWN)

0312 **Proposed Change in IMP-to-Host Protocol** A.M. McKenzie [March 1972] (TXT = 3562 bytes) (Status: UNKNOWN)

0311 **New Console Attachments to the USCB Host** R.F. Bryan [February 1972] (TXT = 3141 bytes) (Status: UNKNOWN)

0310 **Another Look at Data and File Transfer Protocols** A.K. Bhushan [April 1972] (TXT = 18593 bytes)(Updates [RFC0264](#), [RFC0265](#)) (Status: UNKNOWN)

0309 **Data and File Transfer Workshop Announcement** A.K. Bhushan [March 1972] (TXT = 9404 bytes) (Status: UNKNOWN)

0308 **ARPANET host availability data** M. Seriff [March 1972] (TXT = 5948 bytes) (Status: UNKNOWN)

0307 **Using network Remote Job Entry** E. Harslem [February 1972] (TXT = 12032 bytes) (Status: UNKNOWN)

0306 **Network host status** E. Westheimer [February 1972] (TXT = 7485 bytes)(Obsoletes [RFC0298](#)) (Obsoleted by [RFC0315](#)) (Status: UNKNOWN)

0305 **Unknown Host Numbers** R. Alter [February 1972] (TXT = 1998 bytes) (Status: UNKNOWN)

0304 **Data Management System Proposal for the ARPA Network** D.B. McKay [February 1972] (PDF = 465564 bytes) (Status: UNKNOWN)

0303 **ARPA Network mailing lists** Network Information Center. Stanford Research Institute [March 1972] (TXT = 18193 bytes)(Obsoletes [RFC0300](#)) (Obsoleted by [RFC0329](#)) (Status: UNKNOWN)

0302 **Exercising The ARPANET** R.F. Bryan [February 1972] (TXT = 5452 bytes) (Status: UNKNOWN)

0301 **BBN IMP (#5) and NCC Schedule March 4, 1971** R. Alter [February 1972] (TXT = 1487 bytes) (Status: UNKNOWN)

0300 **ARPA Network mailing lists** J.B. North [January 1972] (TXT = 16357 bytes)(Obsoletes [RFC0211](#)) (Obsoleted by [RFC0303](#)) (Status: UNKNOWN)

0299 **Information Management System** D. Hopkin [February 1972] (TXT = 1825 bytes) (Status: UNKNOWN)

0298 **Network host status** E. Westheimer [February 1972] (TXT = 8770 bytes)(Obsoletes [RFC0293](#)) (Obsoleted by [RFC0306](#)) (Status: UNKNOWN)

0297 **TIP Message Buffers** D.C. Walden [January 1972] (TXT = 3517 bytes) (Status: UNKNOWN)

0296 **DS-1 Display System** D.E. Liddle [January 1972] (PDF = 1560765 bytes) (Status: UNKNOWN)

0295 **Report of the Protocol Workshop, 12 October 1971** J. Postel [January 1972] (TXT = 5432 bytes) (Status: UNKNOWN)

0294 **The Use of "Set Data Type" Transaction in File Transfer Protocol** A.K. Bhushan [January 1972] (TXT = 3924 bytes)(Updates [RFC0265](#)) (Status: UNKNOWN)

0293 **Network Host Status** E. Westheimer [January 1972] (TXT = 7639 bytes)(Obsoletes [RFC0288](#)) (Obsoleted by [RFC0298](#)) (Updates [RFC0288](#)) (Status: UNKNOWN)

0292 **Graphics Protocol: Level 0 only** J.C. Michener, I.W. Cotton, K.C. Kelley, D.E. Liddle, E. Meyer [January 1972] (TXT = 22342 bytes)(Obsoleted by [RFC0493](#)) (Status: UNKNOWN)

0291 **Data Management Meeting Announcement** D.B. McKay [January 1972] (TXT = 3375 bytes) (Status: UNKNOWN)

0290 **Computer networks and data sharing: A bibliography** A.P. Mullery [January 1972] (TXT = 34329 bytes)(Obsoletes [RFC0243](#)) (Status: UNKNOWN)

0289 **What we hope is an official list of host names** R.W. Watson [December 1971] (TXT = 5069 bytes)(Obsoleted by [RFC0384](#)) (Status: UNKNOWN)

0288 **Network host status** E. Westheimer [January 1972] (TXT = 8501 bytes)(Obsoletes [RFC0287](#)) (Obsoleted by [RFC0293](#)) (Updated by [RFC0293](#)) (Status: UNKNOWN)

0287 **Status of Network Hosts** E. Westheimer [December 1971] (TXT = 9217 bytes)(Obsoletes [RFC0267](#)) (Obsoleted by [RFC0288](#)) (Status: UNKNOWN)

0286 **Network Library Information System** E. Forman [December 1971] (TXT = 2079 bytes) (Status: UNKNOWN)

0285 **Network graphics** D. Huff [December 1971] (TXT = 18076 bytes) (Status: UNKNOWN)

0284 Not Issued.

0283 **NETRJIT: Remote Job Service Protocol for TIPS** R.T. Braden [December 1971] (TXT = 18771 bytes)(Updates [RFC0189](#)) (Status: UNKNOWN)

0282 **Graphics meeting report** M.A. Padlipsky [December 1971] (TXT = 18100 bytes) (Status: UNKNOWN)

0281 **Suggested addition to File Transfer Protocol** A.M. McKenzie [December 1971] (TXT = 12006 bytes)(Updates [RFC0265](#)) (Status: UNKNOWN)

0280 **A Draft of Host Names** R.W. Watson [November 1971] (TXT = 3629 bytes) (Status: UNKNOWN)

0279 Not Issued.

0278 **Revision of the Mail Box Protocol** A.K. Bhushan, R.T. Braden, E. Harslem, J.F. Heafner, A.M. McKenzie, J.T. Melvin, R.L. Sundberg, R.W. Watson, J.E. White [November 1971] (TXT = 7526 bytes)(Obsoletes [RFC0221](#)) (Status: UNKNOWN)

0277 Not Issued.

0276 **NIC course** R.W. Watson [November 1971] (TXT = 1183 bytes) (Status: UNKNOWN)

0275 Not Issued.

0274 **Establishing a local guide for network usage** E. Forman [November 1971] (TXT = 7114 bytes) (Status: UNKNOWN)

0273 **More on standard host names** R.W. Watson [October 1971] (TXT = 4589 bytes)(Obsoletes [RFC0237](#)) (Status: UNKNOWN)

0272 Not Issued.

0271 **IMP System change notifications** B. Cosell [January 1972] (TXT = 4022 bytes) (Status: UNKNOWN)

0270 **Correction to BBN Report No. 1822 (NIC NO 7958)** A.M. McKenzie [January 1972] (TXT = 1371 bytes)(Updates [NIC7959](#)) (Status: UNKNOWN)

0269 **Some Experience with File Transfer** H. Brodie [December 1971] (TXT = 5961 bytes)(Updates [RFC0122](#)) (Status: UNKNOWN)

0268 **Graphics facilities information** J. Postel [November 1971] (TXT = 1298 bytes) (Status: UNKNOWN)

0267 **Network Host Status** E. Westheimer [November 1971] (TXT = 7862 bytes)(Obsoletes [RFC0266](#)) (Obsoleted by [RFC0287](#)) (Status: UNKNOWN)

0266 **Network host status** E. Westheimer [November 1971] (TXT = 3174 bytes)(Obsoletes [RFC0255](#)) (Obsoleted by [RFC0267](#)) (Status: UNKNOWN)

0265 **The File Transfer Protocol** A. Bhushan, B. Braden, W. Crowther, E. Harslem, J. Heafner, A. McKenzie, J. Melvin, B. Sundberg, D. Watson, J. White [November 1971] (TXT = 3914 bytes)(Obsoletes [RFC0172](#)) (Obsoleted by [RFC0354](#)) (Updated by [RFC0281](#), [RFC0294](#), [RFC0310](#)) (Also [RFC0264](#)) (Status: UNKNOWN)

0264 **The Data Transfer Protocol** A. Bhushan, B. Braden, W. Crowther, E. Harslem, J. Heafner, A. McKenzie, B. Sundberg, D. Watson, J. White [January 1972] (TXT = 20907 bytes)(Obsoletes [RFC0171](#)) (Obsoleted by [RFC0354](#)) (Updated by [RFC0310](#)) (Also [RFC0265](#)) (Status: UNKNOWN)

0263 **"Very Distant" Host interface** A.M. McKenzie [December 1971] (TXT = 3914 bytes) (Status: UNKNOWN)

0262 Not Issued.

0261 Not Issued.

0260 Not Issued.

0259 Not Issued.

0258 Not Issued.

0257 Not Issued.

0256 **IMPSYS change notification** B. Cosell [November 1971] (TXT = 1240 bytes) (Status: UNKNOWN)

0255 **Status of network hosts** E. Westheimer [October 1971] (TXT = 4002 bytes)(Obsoletes [RFC0252](#)) (Obsoleted by [RFC0266](#)) (Status: UNKNOWN)

0254 **Scenarios for using ARPANET computers** A. Bhushan [October 1971] (Status: UNKNOWN)

0253 **Second Network Graphics meeting details** J.A. Moorer [October 1971] (TXT = 1981 bytes) (Status: UNKNOWN)

0252 **Network host status** E. Westheimer [October 1971] (TXT = 5531 bytes)(Obsoletes [RFC0240](#)) (Obsoleted by [RFC0255](#)) (Status: UNKNOWN)

0251 **Weather data** D. Stern [October 1971] (TXT = 1907 bytes) (Status: UNKNOWN)

0250 **Some thoughts on file transfer** H. Brodie [October 1971] (TXT = 2446 bytes) (Status: UNKNOWN)

0249 **Coordination of equipment and supplies purchase** R.F. Borelli [October 1971] (TXT = 4561 bytes) (Status: UNKNOWN)

0248 Not Issued.

0247 **Proffered set of standard host names** P.M. Karp [October 1971] (TXT = 7122 bytes)(Obsoletes [RFC0226](#)) (Status: UNKNOWN)

0246 **Network Graphics meeting** A. Vezza [October 1971] (TXT = 856 bytes) (Status: UNKNOWN)

0245 **Reservations for Network Group meeting** C. Falls [October 1971] (TXT = 1142 bytes) (Status: UNKNOWN)

0244 Not Issued.

0243 **Network and data sharing bibliography** A.P. Mullery [October 1971] (TXT = 12432 bytes)(Obsoleted by [RFC0290](#)) (Status: UNKNOWN)

0242 **Data Descriptive Language for Shared Data** L. Haibt, A.P. Mullery [July 1971] (TXT = 18151 bytes) (Status: UNKNOWN)

0241 **Connecting computers to MLC ports** A.M. McKenzie [September 1971] (TXT = 3739 bytes) (Status: UNKNOWN)

0240 **Site Status** A.M. McKenzie [September 1971] (TXT = 7948 bytes)(Obsoletes [RFC0235](#)) (Obsoleted by [RFC0252](#)) (Status: UNKNOWN)

0239 **Host mnemonics proposed in RFC 226 (NIC 7625)** R.T. Braden [September 1971] (TXT = 2236 bytes)(Also [RFC0226](#), [RFC0229](#), [RFC0236](#)) (Status: UNKNOWN)

0238 **Comments on DTP and FTP proposals** R.T. Braden [September 1971] (TXT = 2735 bytes)(Updates [RFC0171](#), [RFC0172](#)) (Status: UNKNOWN)

0237 **NIC view of standard host names** R.W. Watson [October 1971] (TXT = 2212 bytes)(Obsoleted by [RFC0273](#)) (Status: UNKNOWN)

0236 **Standard host names** J. Postel [September 1971] (TXT = 5112 bytes)(Obsoletes [RFC0229](#)) (Status: UNKNOWN)

0235 **Site status** E. Westheimer [September 1971] (TXT = 7994 bytes)(Obsoleted by [RFC0240](#)) (Status: UNKNOWN)

0234 **Network Working Group meeting schedule** A. Vezza [October 1971] (TXT = 1634 bytes)(Updates [RFC0222](#), [RFC0204](#)) (Status: UNKNOWN)

0233 **Standardization of host call letters** A. Bhushan, R. Metcalfe [September 1971] (TXT = 3206 bytes) (Status: UNKNOWN)

0232 **Postponement of network graphics meeting** A. Vezza [September 1971] (TXT = 899 bytes) (Status: UNKNOWN)

0231 **Service center standards for remote usage: A user's view** J.F. Heafner, E. Harslem [September 1971] (TXT = 9692 bytes) (Status: UNKNOWN)

0230 **Toward reliable operation of minicomputer-based terminals on a TIP** T. Pyke [September 1971] (TXT = 7040 bytes) (Status: UNKNOWN)

0229 **Standard host names** J. Postel [September 1971] (TXT = 3388 bytes)(Obsoleted by [RFC0236](#)) (Status: UNKNOWN)

0228 **Clarification** D.C. Walden [September 1971] (TXT = 715 bytes)(Updates [RFC0070](#)) (Status: UNKNOWN)

0227 **Data transfer rates (Rand/UCLA)** J.F. Heafner, E. Harslem [September 1971] (TXT = 2451 bytes)(Updates [RFC0113](#)) (Status: UNKNOWN)

0226 **Standardization of host mnemonics** P.M. Karp [September 1971] (TXT = 2012 bytes)(Obsoleted by [RFC0247](#)) (Status: UNKNOWN)

0225 **Rand/UCSB network graphics experiment** E. Harslem, R. Stoughton [September 1971] (TXT = 13573 bytes)(Updates [RFC0074](#)) (Status: UNKNOWN)

0224 **Comments on Mailbox Protocol** A.M. McKenzie [September 1971] (TXT = 3583 bytes) (Status: UNKNOWN)

0223 **Network Information Center schedule for network users** J.T. Melvin, R.W. Watson [September 1971] (TXT = 5369 bytes) (Status: UNKNOWN)

0222 **Subject: System programmer's workshop** R.M. Metcalfe [September 1971] (TXT = 4023 bytes)(Updates [RFC0212](#)) (Updated by [RFC0234](#)) (Status: UNKNOWN)

0221 **Mail Box Protocol: Version 2** R.W. Watson [August 1971] (TXT = 9805 bytes)(Obsoletes [RFC0196](#)) (Obsoleted by [RFC0278](#)) (Status: UNKNOWN)

0220 Not Issued.

0219 **User's View of the Datacomputer** R. Winter [September 1971] (TXT = 16631 bytes) (Status: UNKNOWN)

0218 **Changing the IMP status reporting facility** B. Cosell [September 1971] (TXT = 1131 bytes) (Status: UNKNOWN)

0217 **Specifications changes for OLS, RJE/RJOR, and SMFS** J.E. White [September 1971] (TXT = 2956 bytes)(Updates [RFC0074](#), [RFC0105](#), [RFC0122](#)) (Status: UNKNOWN)

0216 **Telnet Access to UCSB's On-Line System** J.E. White [September 1971] (PDF = 908675 bytes) (Status: UNKNOWN)

0215 **NCP, ICP, and Telnet: The Terminal IMP implementation** A.M. McKenzie [August 1971] (TXT = 16645 bytes) (Status: UNKNOWN)

0214 **Network checkpoint** E. Harslem [August 1971] (TXT = 3047 bytes)(Obsoletes [RFC0198](#)) (Status: UNKNOWN)

0213 **IMP System change notification** B. Cosell [August 1971] (TXT = 1589 bytes) (Status: UNKNOWN)

0212 **NWG meeting on network usage** Information Sciences Institute University of Southern California [August 1971] (TXT = 4356 bytes)(Obsoletes [RFC0207](#)) (Updated by [RFC0222](#)) (Status: UNKNOWN)

0211 **ARPA Network Mailing Lists** J.B. North [August 1971] (PDF = 210300 bytes)(Obsoletes [RFC0168](#)) (Obsoleted by [RFC0300](#)) (Status: UNKNOWN)

0210 **Improvement of Flow Control** W. Conrad [August 1971] (TXT = 3329 bytes) (Status: UNKNOWN)

0209 **Host/IMP interface documentation** B. Cosell [August 1971] (TXT = 2566 bytes) (Status: UNKNOWN)

0208 **Address tables** A.M. McKenzie [August 1971] (TXT = 5858 bytes) (Status: UNKNOWN)

0207 **September Network Working Group meeting** A. Vezza [August 1971] (TXT = 3356 bytes)(Obsoleted by [RFC0212](#)) (Status: UNKNOWN)

0206 **A User TELNET Description of an Initial Implementation** J. White [August 1971] (TXT, PDF = 33152, 617017 bytes) (Status: UNKNOWN)

0205 **NETCRT - a character display protocol** R.T. Braden [August 1971] (TXT = 28272 bytes) (Status: UNKNOWN)

0204 **Sockets in use** J. Postel [August 1971] (TXT = 1379 bytes)(Updated by [RFC0234](#)) (Status: UNKNOWN)

0203 **Achieving reliable communication** R.B. Kalin [August 1971] (TXT = 9253 bytes) (Status: UNKNOWN)

0202 **Possible Deadlock in ICP** S.M. Wolfe, J. Postel [July 1971] (TXT = 2796 bytes) (Status: UNKNOWN)

0201 Not Issued.

0200 **RFC list by number** J.B. North [August 1971] (TXT = 19256 bytes)(Obsoletes [RFC0170](#), [RFC0160](#)) (Obsoleted by [NIC7724](#)) (Status: UNKNOWN)

0199 **Suggestions for a Network Data-Tablet Graphics Protocol** T. Williams [July 1971] (PDF = 542961 bytes) (Status: UNKNOWN)

0198 **Site Certification - Lincoln Labs 360/67** J.F. Heafner [July 1971] (TXT = 855 bytes)(Obsoletes [RFC0193](#)) (Obsoleted by [RFC0214](#)) (Updates [RFC0193](#)) (Status: UNKNOWN)

0197 **Initial Connection Protocol - Reviewed** A. Shoshani, E. Harslem [July 1971] (TXT = 7094 bytes) (Status: UNKNOWN)

0196 **Mail Box Protocol** R.W. Watson [July 1971] (TXT = 7016 bytes)(Obsoleted by [RFC0221](#)) (Status: UNKNOWN)

0195 **Data computers-data descriptions and access language** G.H. Mealy [July 1971] (TXT = 8704 bytes) (Status: UNKNOWN)

0194 **The Data Reconfiguration Service -- Compiler/Interpreter Implementation Notes** V. Cerf, E. Harslem, J. Heafner, B. Metcalfe, J. White [July 1971] (TXT = 32716 bytes) (Status: UNKNOWN)

0193 **NETWORK CHECKOUT** E. Harslem, J.F. Heafner [July 1971] (TXT = 3622 bytes)(Obsoleted by [RFC0198](#)) (Updated by [RFC0198](#)) (Status: UNKNOWN)

0192 **Some factors which a Network Graphics Protocol must consider** R.W. Watson [July 1971] (TXT = 48540 bytes) (Status: UNKNOWN)

0191 **Graphics implementation and conceptualization at Augmentation Research Center** C.H. Irby [July 1971] (TXT = 8179 bytes) (Status: UNKNOWN)

0190 **DEC PDP-10-IMLAC communications system** L.P. Deutsch [July 1971] (TXT = 18752 bytes) (Status: UNKNOWN)

0189 **Interim NETRJS specifications** R.T. Braden [July 1971] (TXT = 41383 bytes)(Obsoletes [RFC0088](#)) (Obsoleted by [RFC0599](#)) (Updated by [RFC0283](#)) (Status: UNKNOWN)

0188 **Data management meeting announcement** P.M. Karp, D.B. McKay [January 1971] (TXT = 3383 bytes) (Status: UNKNOWN)

[0187 Network/440 Protocol Concept](#) D.B. McKay, D.P. Karp [July 1971] (TXT = 25042 bytes) (Status: UNKNOWN)
[0186 Network graphics loader](#) J.C. Michener [July 1971] (TXT = 30557 bytes) (Status: UNKNOWN)
[0185 NIC distribution of manuals and handbooks](#) J.B. North [July 1971] (TXT = 1406 bytes) (Status: UNKNOWN)
[0184 Proposed graphic display modes](#) K.C. Kelley [July 1971] (TXT = 18678 bytes) (Status: UNKNOWN)
[0183 EBCDIC Codes and Their Mapping to ASCII](#) J.M. Winett [July 1971] (PDF = 577092 bytes) (Status: UNKNOWN)
[0182 Compilation of list of relevant site reports](#) J.B. North [June 1971] (TXT = 2565 bytes) (Status: UNKNOWN)
[0181 Modifications to RFC 177](#) J. McConnell [July 1971] (TXT = 4892 bytes)(Updates [RFC0177](#)) (Status: UNKNOWN)
[0180 File system questionnaire](#) A.M. McKenzie [June 1971] (TXT = 8154 bytes) (Status: UNKNOWN)
[0179 Link Number Assignments](#) A.M. McKenzie [June 1971] (TXT = 1221 bytes)(Updates [RFC0107](#)) (Status: UNKNOWN)
[0178 Network graphic attention handling](#) I.W. Cotton [June 1971] (TXT = 24522 bytes) (Status: UNKNOWN)
[0177 Device independent graphical display description](#) J. McConnell [June 1971] (TXT = 20474 bytes)(Updates [RFC0125](#)) (Updated by [RFC0181](#)) (Status: UNKNOWN)
[0176 Comments on "Byte size for connections"](#) A.K. Bhushan, R. Kanodia, R.M. Metcalfe, J. Postel [June 1971] (TXT = 7269 bytes) (Status: UNKNOWN)
[0175 Comments on "Socket Conventions Reconsidered"](#) E. Harslem, J.F. Heafner [June 1971] (TXT = 2225 bytes) (Status: UNKNOWN)
[0174 UCLA - Computer Science Graphics Overview](#) J. Postel, V.G. Cerf [June 1971] (TXT = 5037 bytes) (Status: UNKNOWN)
[0173 Network Data Management Committee Meeting Announcement](#) P.M. Karp, D.B. McKay [June 1971] (TXT = 4239 bytes) (Status: UNKNOWN)
[0172 The File Transfer Protocol](#) A. Bhushan, B. Braden, W. Crowther, E. Harslem, J. Heafner, A. McKenzie, J. Melvin, B. Sundberg, D. Watson, J. White [June 1971] (TXT = 21328 bytes)(Obsoleted by [RFC0265](#)) (Updates [RFC0114](#)) (Updated by [RFC0238](#)) (Status: UNKNOWN)
[0171 The Data Transfer Protocol](#) A. Bhushan, B. Braden, W. Crowther, E. Harslem, J. Heafner, A. McKenzie, J. Melvin, B. Sundberg, D. Watson, J. White [June 1971] (TXT = 20616 bytes)(Obsoleted by [RFC0264](#)) (Updates [RFC0114](#)) (Updated by [RFC0238](#)) (Status: UNKNOWN)
[0170 RFC List by Number](#) Network Information Center. Stanford Research Institute [June 1971] (TXT = 17670 bytes)(Obsoleted by [RFC0200](#)) (Status: UNKNOWN)
[0169 COMPUTER NETWORKS](#) S.D. Crocker [May 1971] (TXT, PDF = 7061, 178823 bytes) (Status: UNKNOWN)
[0168 ARPA Network mailing lists](#) J.B. North [May 1971] (TXT = 13294 bytes)(Obsoletes [RFC0155](#)) (Obsoleted by RFC0211) (Status: UNKNOWN)
[0167 Socket conventions reconsidered](#) A.K. Bhushan, R.M. Metcalfe, J.M. Winett [May 1971] (TXT = 7643 bytes)(Also [RFC0147](#), [RFC0129](#)) (Status: UNKNOWN)
[0166 Data Reconfiguration Service: An implementation specification](#) R.H. Anderson, V.G. Cerf, E. Harslem, J.F. Heafner, J. Madden, R.M. Metcalfe, A. Shoshani, J.E. White, D.C.M. Wood [May 1971] (TXT = 42094 bytes) (Status: UNKNOWN)
[0165 Proffered Official Initial Connection Protocol](#) J. Postel [May 1971] (PDF = 248876 bytes)(Obsoletes [RFC0145](#), [RFC0143](#), [RFC0123](#)) (Updated by NIC7101) (Status: UNKNOWN)
[0164 Minutes of Network Working Group meeting, 5/16 through 5/19/71](#) J.F. Heafner [May 1971] (TXT = 58597 bytes) (Status: UNKNOWN)
[0163 Data transfer protocols](#) V.G. Cerf [May 1971] (TXT = 5465 bytes) (Status: UNKNOWN)
[0162 NETBUGGER3](#) M. Kampe [May 1971] (TXT = 3153 bytes) (Status: UNKNOWN)
[0161 Solution to the race condition in the ICP](#) A. Shoshani [May 1971] (TXT = 2026 bytes) (Status: UNKNOWN)
[0160 RFC brief list](#) Network Information Center. Stanford Research Institute [May 1971] (TXT = 12173 bytes)(Obsoleted by [RFC0200](#), [RFC0999](#)) (Updates NIC6716) (Status: UNKNOWN)
0159 Not Issued.
[0158 Telnet Protocol: A Proposed Document](#) T.C. O'Sullivan [May 1971] (TXT, PDF = 21025, 429985 bytes)(Obsoleted by [RFC0495](#)) (Updates [RFC0139](#)) (Updated by [RFC0318](#)) (Also [RFC0393](#)) (Status: UNKNOWN)
[0157 Invitation to the Second Symposium on Problems in the Optimization of Data Communications Systems](#) V.G. Cerf [May 1971] (TXT = 3159 bytes) (Status: UNKNOWN)
[0156 Status of the Illinois site: Response to RFC 116](#) J. Bouknight [April 1971] (TXT = 1171 bytes)(Updates [RFC0116](#)) (Status: UNKNOWN)
[0155 ARPA Network mailing lists](#) J.B. North [May 1971] (TXT = 11054 bytes)(Obsoletes [RFC0095](#)) (Obsoleted by [RFC0168](#)) (Status: UNKNOWN)
[0154 Exposition Style](#) S.D. Crocker [May 1971] (TXT = 1293 bytes)(Obsoletes [RFC0132](#)) (Updates [RFC0107](#)) (Status: UNKNOWN)
[0153 SRI ARC-NIC status](#) J.T. Melvin, R.W. Watson [May 1971] (TXT = 8573 bytes) (Status: UNKNOWN)
[0152 SRI Artificial Intelligence status report](#) M. Wilber [May 1971] (TXT = 2726 bytes) (Status: UNKNOWN)
[0151 Comments on a proffered official ICP: RFCs 123, 127](#) A. Shoshani [May 1971] (TXT = 3623 bytes)(Updates [RFC0127](#)) (Status: UNKNOWN)
[0150 Use of IPC Facilities: A Working Paper](#) R.B. Kalin [May 1971] (TXT = 28163 bytes) (Status: UNKNOWN)
[0149 Best Laid Plans](#) S.D. Crocker [May 1971] (TXT = 1057 bytes)(Updates [RFC0140](#)) (Status: UNKNOWN)
[0148 Comments on RFC 123](#) A.K. Bhushan [May 1971] (TXT = 1149 bytes)(Updates [RFC0123](#)) (Status: UNKNOWN)
[0147 Definition of a socket](#) J.M. Winett [May 1971] (TXT = 6438 bytes)(Updates [RFC0129](#)) (Status: UNKNOWN)
[0146 Views on issues relevant to data sharing on computer networks](#) P.M. Karp, D.B. McKay, D.C.M. Wood [May 1971] (TXT = 9828 bytes) (Status: UNKNOWN)
[0145 Initial Connection Protocol Control Commands](#) J. Postel [May 1971] (TXT, PS, PDF = 2490, 552114, 15869 bytes)(Obsoletes [RFC0127](#)) (Obsoleted by RFC0165) (Updated by [RFC0143](#)) (Status: UNKNOWN)
[0144 Data sharing on computer networks](#) A. Shoshani [April 1971] (TXT = 13744 bytes) (Status: UNKNOWN)
[0143 Regarding proffered official ICP](#) W. Naylor, J. Wong, C. Kline, J. Postel [May 1971] (TXT = 6963 bytes)(Obsoleted by RFC0165) (Updates [RFC0123](#), [RFC0145](#)) (Status: UNKNOWN)
[0142 Time-Out Mechanism in the Host-Host Protocol](#) C. Kline, J. Wong [May 1971] (TXT = 4372 bytes) (Status: UNKNOWN)
[0141 Comments on RFC 114: A File Transfer Protocol](#) E. Harslem, J.F. Heafner [April 1971] (TXT = 3781 bytes)(Updates [RFC0114](#)) (Status: UNKNOWN)
[0140 Agenda for the May NWG meeting](#) S.D. Crocker [May 1971] (TXT = 6934 bytes)(Updated by [RFC0149](#)) (Status: UNKNOWN)
[0139 Discussion of Telnet Protocol](#) T.C. O'Sullivan [May 1971] (TXT = 26085 bytes)(Updates [RFC0137](#)) (Updated by [RFC0158](#)) (Also [RFC0393](#)) (Status: UNKNOWN)
[0138 Status report on proposed Data Reconfiguration Service](#) R.H. Anderson, V.G. Cerf, E. Harslem, J.F. Heafner, J. Madden, R.M. Metcalfe, A. Shoshani, J.E. White, D.C.M. Wood [April 1971] (TXT = 46641 bytes) (Status: UNKNOWN)
[0137 Telnet Protocol - a proposed document](#) T.C. O'Sullivan [April 1971] (TXT = 17606 bytes)(Updated by [RFC0139](#)) (Status: UNKNOWN)
[0136 Host accounting and administrative procedures](#) R.E. Kahn [April 1971] (TXT = 8016 bytes) (Status: UNKNOWN)
[0135 Response to NWG/RFC 110](#) W. Hathaway [April 1971] (TXT = 5282 bytes)(Updates RFC0110) (Status: UNKNOWN)
[0134 Network Graphics meeting](#) A. Vezza [April 1971] (TXT = 2684 bytes) (Status: UNKNOWN)
[0133 File Transfer and Error Recovery](#) R.L. Sunberg [April 1971] (TXT = 8322 bytes)(Updates [RFC0114](#)) (Status: UNKNOWN)
[0132 Typographical Error in RFC 107](#) J.E. White [April 1971] (TXT = 1058 bytes)(Obsoleted by [RFC0154](#)) (Updates [RFC0107](#)) (Status: UNKNOWN)
[0131 Response to RFC 116: May NWG meeting](#) E. Harslem, J.F. Heafner [April 1971] (TXT = 5375 bytes)(Updates [RFC0116](#)) (Status: UNKNOWN)
[0130 Response to RFC 111: Pressure from the chairman](#) J.F. Heafner [April 1971] (TXT = 2580 bytes)(Updates [RFC0111](#)) (Status: UNKNOWN)
[0129 Request for comments on socket name structure](#) E. Harslem, J. Heafner, E. Meyer [April 1971] (TXT = 11175 bytes)(Updated by [RFC0147](#)) (Status: UNKNOWN)
[0128 Bytes](#) J. Postel [April 1971] (TXT = 2745 bytes) (Status: UNKNOWN)
[0127 Comments on RFC 123](#) J. Postel [April 1971] (TXT = 2305 bytes)(Obsoleted by [RFC0145](#)) (Updates [RFC0123](#)) (Updated by [RFC0151](#)) (Status: UNKNOWN)

0126 **Graphics Facilities at Ames Research Center** J. McConnell [April 1971] (TXT = 1974 bytes) (Status: UNKNOWN)

0125 **Response to RFC 86: Proposal for Network Standard Format for a Graphics Data Stream** J. McConnell [April 1971] (TXT = 8133 bytes)(Updates [RFC0086](#)) (Updated by [RFC0177](#)) (Status: UNKNOWN)

0124 **Typographical error in RFC 107** J.T. Melvin [April 1971] (TXT = 659 bytes)(Updates [RFC0107](#)) (Status: UNKNOWN)

0123 **Proffered Official ICP** S.D. Crocker [April 1971] (TXT = 4812 bytes)(Obsoletes [RFC0066](#), [RFC0080](#)) (Obsoleted by RFC0165) (Updates [RFC0098](#), [RFC0101](#)) (Updated by [RFC0127](#), [RFC0143](#), [RFC0148](#)) (Status: UNKNOWN)

0122 **Network specifications for UCSB's Simple-Minded File System** J.E. White [April 1971] (TXT = 47638 bytes)(Updated by [RFC0217](#), [RFC0269](#), [RFC0399](#), [RFC0431](#)) (Status: UNKNOWN)

0121 **Network on-line operators** M. Krilanovich [April 1971] (TXT = 29419 bytes) (Status: UNKNOWN)

0120 **Network PL1 subprograms** M. Krilanovich [April 1971] (TXT = 37192 bytes) (Status: UNKNOWN)

0119 **Network Fortran Subprograms** M. Krilanovich [April 1971] (PDF = 760848 bytes) (Status: UNKNOWN)

0118 **Recommendations for facility documentation** R.W. Watson [April 1971] (TXT = 4573 bytes) (Status: UNKNOWN)

0117 **Some comments on the official protocol** J. Wong [April 1971] (TXT = 7128 bytes) (Status: UNKNOWN)

0116 **Structure of the May NWG Meeting** S.D. Crocker [April 1971] (TXT = 2395 bytes)(Updates [RFC0099](#)) (Updated by [RFC0131](#), [RFC0156](#)) (Status: UNKNOWN)

0115 **Some Network Information Center policies on handling documents** R.W. Watson, J.B. North [April 1971] (TXT = 16775 bytes) (Status: UNKNOWN)

0114 **File Transfer Protocol** A.K. Bhushan [April 1971] (TXT = 38981 bytes)(Updated by [RFC0133](#), [RFC0141](#), [RFC0171](#), [RFC0172](#)) (Status: UNKNOWN)

0113 **Network activity report: UCSB** Rand E. Harslem, J.F. Heafner, J.E. White [April 1971] (TXT = 3442 bytes)(Updated by [RFC0227](#)) (Status: UNKNOWN)

0112 **User/Server Site Protocol: Network Host Questionnaire** T.C. O'Sullivan [April 1 1971] (PDF = 347370 bytes) (Status: UNKNOWN)

0111 **Pressure from the Chairman** S.D. Crocker [March 1971] (TXT = 2098 bytes)(Updates [RFC0107](#)) (Updated by [RFC0130](#)) (Status: UNKNOWN)

0110 **Conventions for Using an IBM 2741 Terminal as a User Console for Access to Network Server Hosts** J.M. Winett [March 1971] (PDF = 738470 bytes)(Updated by [RFC0135](#)) (Status: UNKNOWN)

0109 **Level III Server Protocol for the Lincoln Laboratory NIC 360/67 Host** J.M. Winett [March 1971] (PDF = 645921 bytes)(Also [RFC0393](#)) (Status: UNKNOWN)

0108 **Attendance list at the Urbana NWG meeting, February 17-19, 1971** R.W. Watson [March 1971] (TXT = 1597 bytes)(Updates [RFC0101](#)) (Status: UNKNOWN)

0107 **Output of the Host-Host Protocol Glitch Cleaning Committee** R.D. Bressler, S.D. Crocker, W.R. Crowther, G.R. Grossman, R.S. Tomlinson, J.E. White [March 1971] (TXT = 18109 bytes)(Updates [RFC0102](#)) (Updated by [RFC0111](#), [RFC0124](#), [RFC0132](#), [RFC0154](#), [RFC0179](#)) (Status: UNKNOWN)

0106 **User/Server Site Protocol Network Host Questionnaire** T.C. O'Sullivan [March 1971] (TXT = 6946 bytes) (Status: UNKNOWN)

0105 **Network Specifications for Remote Job Entry and Remote Job Output Retrieval at UCSB** J.E. White [March 1971] (TXT = 21938 bytes)(Updated by [RFC0217](#)) (Status: UNKNOWN)

0104 **Link 191** J.B. Postel, S.D. Crocker [February 1971] (TXT = 1017 bytes) (Status: UNKNOWN)

0103 **Implementation of Interrupt Keys** R.B. Kalin [February 1971] (TXT = 7592 bytes) (Status: UNKNOWN)

0102 **Output of the Host-Host Protocol glitch cleaning committee** S.D. Crocker [February 1971] (TXT = 8511 bytes)(Updated by [RFC0107](#)) (Status: UNKNOWN)

0101 **Notes on the Network Working Group meeting, Urbana, Illinois, February 17, 1971** R.W. Watson [February 1971] (TXT = 30343 bytes)(Updated by [RFC0108](#), [RFC0123](#)) (Status: UNKNOWN)

0100 **Categorization and guide to NWG/RFCs** P.M. Karp [February 1971] (TXT = 62473 bytes) (Status: UNKNOWN)

0099 **Network Meeting** P.M. Karp [February 1971] (TXT = 1010 bytes)(Updated by [RFC0116](#)) (Status: UNKNOWN)

0098 **Logger Protocol Proposal** E. Meyer, T. Skinner [February 1971] (TXT = 24536 bytes)(Updated by [RFC0123](#)) (Status: UNKNOWN)

0097 **First Cut at a Proposed Telnet Protocol** J.T. Melvin, R.W. Watson [February 1971] (PDF = 403375 bytes) (Status: UNKNOWN)

0096 **An Interactive Network Experiment to Study Modes of Access the Network Information Center** R.W. Watson [February 1971] (TXT = 11334 bytes) (Status: INFORMATIONAL)

0095 **Distribution of NWG/RFC's through the NIC** S.D. Crocker [February 1971] (TXT = 8938 bytes)(Obsoleted by [RFC0155](#)) (Status: UNKNOWN)

0094 **Some thoughts on Network Graphics** E. Harslem, J.F. Heafner [February 1971] (TXT = 13516 bytes) (Status: UNKNOWN)

0093 **Initial Connection Protocol** A.M. McKenzie [January 1971] (TXT = 1746 bytes)(Updates [RFC0066](#), [RFC0080](#)) (Status: UNKNOWN)

0092 Not Issued.

0091 **Proposed User-User Protocol** G.H. Mealy [December 1970] (TXT = 27005 bytes) (Status: UNKNOWN)

0090 **CCN as a Network Service Center** R.T. Braden [January 1971] (TXT = 11929 bytes) (Status: UNKNOWN)

0089 **Some historic moments in networking** R.M. Metcalfe [January 1971] (TXT = 16832 bytes) (Status: UNKNOWN)

0088 **NETRJS: A third level protocol for Remote Job Entry** R.T. Braden, S.M. Wolfe [January 1971] (TXT = 19691 bytes)(Obsoleted by [RFC0189](#)) (Status: UNKNOWN)

0087 **Topic for Discussion at the Next Network Working Group Meeting** A. Vezza [January 1971] (TXT = 3593 bytes) (Status: UNKNOWN)

0086 **Proposal for a Network Standard Format for a Data Stream to Control Graphics Display** S.D. Crocker [January 1971] (TXT = 7117 bytes)(Updated by [RFC0125](#)) (Status: UNKNOWN)

0085 **Network Working Group meeting** S.D. Crocker [December 1970] (TXT = 1547 bytes) (Status: UNKNOWN)

0084 **List of NWG/RFC's 1-80** J.B. North [December 1970] (TXT = 12613 bytes) (Status: UNKNOWN)

0083 **Language-machine for data reconfiguration** R.H. Anderson, E. Harslem, J.F. Heafner [December 1970] (TXT = 22253 bytes) (Status: UNKNOWN)

0082 **Network Meeting Notes** E. Meyer [December 1970] (TXT = 38023 bytes) (Status: UNKNOWN)

0081 **Request for Reference Information** J. Bouknight [December 1970] (TXT = 956 bytes) (Status: UNKNOWN)

0080 **Protocols and Data Formats** E. Harslem, J.F. Heafner [December 1970] (TXT = 17620 bytes)(Obsoleted by [RFC0123](#)) (Updates [RFC0066](#)) (Updated by [RFC0093](#)) (Status: UNKNOWN)

0079 **Logger Protocol error** E. Meyer [November 1970] (TXT = 1515 bytes) (Status: UNKNOWN)

0078 **NCP Status Report: UCSB/Rand** E. Harslem, J.F. Heafner, J.E. White [October 1970] (TXT = 1303 bytes) (Status: UNKNOWN)

0077 **Network meeting report** J. Postel [November 1970] (TXT = 19196 bytes) (Status: UNKNOWN)

0076 **Connection by name: User oriented protocol** J. Bouknight, J. Madden, G.R. Grossman [October 1970] (TXT = 26504 bytes) (Status: UNKNOWN)

0075 **Network Meeting** S.D. Crocker [October 1970] (TXT = 1318 bytes) (Status: UNKNOWN)

0074 **Specifications for Network Use of the UCSB On-Line System** J.E. White [October 1970] (PDF = 521403 bytes)(Updated by [RFC0217](#), [RFC0225](#)) (Status: UNKNOWN)

0073 **Response to NWG/RFC 67** S.D. Crocker [September 1970] (TXT = 1268 bytes) (Status: UNKNOWN)

0072 **Proposed Moratorium on Changes to Network Protocol** R.D. Bressler [September 1970] (TXT = 4047 bytes) (Status: UNKNOWN)

0071 **Reallocation in Case of Input Error** T. Schipper [September 1970] (TXT = 1265 bytes) (Status: UNKNOWN)

0070 **Note on Padding** S.D. Crocker [October 1970] (TXT = 12790 bytes)(Updated by [RFC0228](#)) (Status: UNKNOWN)

0069 **Distribution List Change for MIT** A.K. Bhushan [September 1970] (TXT = 841 bytes)(Updates [RFC0052](#)) (Status: UNKNOWN)

0068 **Comments on Memory Allocation Control Commands: CEASE, ALL, GVB, RET, and RFNM** M. Elie [August 1970] (TXT = 5041 bytes) (Status: UNKNOWN)

0067 **Proposed Change to Host/IMP Spec to Eliminate Marking** W.R. Crowther [January 1970] (TXT = 1534 bytes) (Status: UNKNOWN)

0066 **NIC - third level mode and other notes** S.D. Crocker [August 1970] (TXT = 4575 bytes)(Obsoleted by [RFC0123](#)) (Updated by [RFC0080](#), [RFC0093](#)) (Status: UNKNOWN)

[0000 Third Level Notes and Other House S.D. Crocker](#) [August 1970] (TXT = 4070 bytes)(Obsoletes [RFC0123](#)) (Updated by [RFC0069](#), [RFC0072](#)) (Status: UNKNOWN)

[0065 Comments on Host/Host Protocol document #1](#) D.C. Walden [August 1970] (TXT = 5628 bytes) (Status: UNKNOWN)

[0064 Getting rid of marking](#) M. Elie [July 1970] (TXT = 7556 bytes) (Status: UNKNOWN)

[0063 Belated Network Meeting Report](#) V.G. Cerf [July 1970] (TXT = 2961 bytes) (Status: UNKNOWN)

[0062 Systems for Interprocess Communication in a Resource Sharing Computer Network](#) D.C. Walden [August 1970] (TXT = 55784 bytes)(Obsoletes [RFC0061](#)) (Status: UNKNOWN)

[0061 Note on Interprocess Communication in a Resource Sharing Computer Network](#) D.C. Walden [July 1970] (TXT = 43946 bytes)(Obsoletes [RFC0062](#)) (Status: UNKNOWN)

[0060 Simplified NCP Protocol](#) R.B. Kalin [July 1970] (TXT = 18941 bytes) (Status: UNKNOWN)

[0059 Flow Control - Fixed Versus Demand Allocation](#) E. Meyer [June 1970] (TXT = 17691 bytes) (Status: UNKNOWN)

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[0035 Network Meeting](#) S.D. Crocker [March 1970] (TXT = 1282 bytes) (Status: INFORMATIONAL)

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Sieve: An Email Filtering Language

Status of This Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

This document describes a language for filtering email messages at time of final delivery. It is designed to be implementable on either a mail client or mail server. It is meant to be extensible, simple, and independent of access protocol, mail architecture, and operating system. It is suitable for running on a mail server where users may not be allowed to execute arbitrary programs, such as on black box Internet Message Access Protocol (IMAP) servers, as the base language has no variables, loops, or ability to shell out to external programs.

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1. Introduction

This memo documents a language that can be used to create filters for electronic mail. It is not tied to any particular operating system or mail architecture. It requires the use of [IMAIL]-compliant messages, but should otherwise generalize to many systems.

The language is powerful enough to be useful but limited in order to allow for a safe server-side filtering system. The intention is to make it impossible for users to do anything more complex (and dangerous) than write simple mail filters, along with facilitating the use of graphical user interfaces (GUIs) for filter creation and manipulation. The base language was not designed to be Turing-complete: it does not have a loop control structure or functions.

Scripts written in Sieve are executed during final delivery, when the message is moved to the user-accessible mailbox. In systems where the Mail Transfer Agent (MTA) does final delivery, such as traditional Unix mail, it is reasonable to filter when the MTA deposits mail into the user's mailbox.

There are a number of reasons to use a filtering system. Mail traffic for most users has been increasing due to increased usage of email, the emergence of unsolicited email as a form of advertising

email, the emergence of unsolicited email as a form of advertising, and increased usage of mailing lists.

Experience at Carnegie Mellon has shown that if a filtering system is made available to users, many will make use of it in order to file messages from specific users or mailing lists. However, many others did not make use of the Andrew system's FLAMES filtering language [FLAMES] due to difficulty in setting it up.

Because of the expectation that users will make use of filtering if it is offered and easy to use, this language has been made simple enough to allow many users to make use of it, but rich enough that it can be used productively. However, it is expected that GUI-based editors will be the preferred way of editing filters for a large number of users.

1.1. Conventions Used in This Document

In the sections of this document that discuss the requirements of various keywords and operators, the following conventions have been adopted.

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [KEYWORDS].

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Each section on a command (test, action, or control) has a line labeled "Usage:". This line describes the usage of the command, including its name and its arguments. Required arguments are listed inside angle brackets ("<" and ">"). Optional arguments are listed inside square brackets ("[" and "]"). Each argument is followed by its type, so "<key: string>" represents an argument called "key" that is a string. Literal strings are represented with double-quoted strings. Alternatives are separated with slashes, and parentheses are used for grouping, similar to [ABNF].

In the "Usage:" line, there are three special pieces of syntax that are frequently repeated, MATCH-TYPE, COMPARATOR, and ADDRESS-PART. These are discussed in sections 2.7.1, 2.7.3, and 2.7.4, respectively.

The formal grammar for these commands is defined in section 8 and is the authoritative reference on how to construct commands, but the formal grammar does not specify the order, semantics, number or types of arguments to commands, or the legal command names. The intent is to allow for extension without changing the grammar.

1.2. Example Mail Messages

The following mail messages will be used throughout this document in examples.

Message A

Date: Tue, 1 Apr 1997 09:06:31 -0800 (PST)
From: coyote@desert.example.org
To: roadrunner@acme.example.com
Subject: I have a present for you

Look, I'm sorry about the whole anvil thing, and I really didn't mean to try and drop it on you from the top of the cliff. I want to try to make it up to you. I've got some great birdseed over here at my place--top of the line stuff--and if you come by, I'll have it all wrapped up for you. I'm really sorry for all the problems I've caused for you over the years, but I know we can work this out.

--
Wile E. Coyote "Super Genius" coyote@desert.example.org

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Message B

From: youcouldberich!@reply-by-postal-mail.invalid
Sender: blff@de.res.example.com
To: rube@landru.example.com
Date: Mon, 31 Mar 1997 18:26:10 -0800
Subject: \$\$\$ YOU, TOO, CAN BE A MILLIONAIRE! \$\$\$

YOU MAY HAVE ALREADY WON TEN MILLION DOLLARS, BUT I DOUBT IT! SO JUST POST THIS TO SIX HUNDRED NEWSGROUPS! IT WILL GUARANTEE THAT YOU GET AT LEAST FIVE RESPONSES WITH MONEY! MONEY! MONEY! COLD HARD CASH! YOU WILL RECEIVE OVER \$20,000 IN LESS THAN TWO MONTHS! AND IT'S LEGAL!!!!!!!!!!!!

Only non-negative integers are permitted by this specification.

2.4.2. Strings

Scripts involve large numbers of string values as they are used for pattern matching, addresses, textual bodies, etc. Typically, short quoted strings suffice for most uses, but a more convenient form is provided for longer strings such as bodies of messages.

A quoted string starts and ends with a single double quote (the "<" character, US-ASCII 34). A backslash ("\", US-ASCII 92) inside of a quoted string is followed by either another backslash or a double quote. These two-character sequences represent a single backslash or double quote within the value, respectively.

Scripts SHOULD NOT escape other characters with a backslash.

An undefined escape sequence (such as "\a" in a context where "a" has no special meaning) is interpreted as if there were no backslash (in this case, "\a" is just "a"), though that may be changed by extensions.

Non-printing characters such as tabs, CRLF, and control characters are permitted in quoted strings. Quoted strings MAY span multiple lines. An unencoded NUL (US-ASCII 0) is not allowed in strings; see section 2.4.2.4 for how it can be encoded.

As message header data is converted to [UTF-8] for comparison (see section 2.7.2), most string values will use the UTF-8 encoding. However, implementations MUST accept all strings that match the grammar in section 8. The ability to use non-UTF-8 encoded strings matches existing practice and has proven to be useful both in tests for invalid data and in arguments containing raw MIME parts for extension actions that generate outgoing messages.

For entering larger amounts of text, such as an email message, a multi-line form is allowed. It starts with the keyword "text:", followed by a CRLF, and ends with the sequence of a CRLF, a single period, and another CRLF. The CRLF before the final period is considered part of the value. In order to allow the message to contain lines with a single dot, lines are dot-stuffed. That is, when composing a message body, an extra '.' is added before each line that begins with a '.'. When the server interprets the script, these extra dots are removed. Note that a line that begins with a dot followed by a non-dot character is not interpreted as dot-stuffed;

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that is, ".foo" is interpreted as ".foo". However, because this is potentially ambiguous, scripts SHOULD be properly dot-stuffed so such lines do not appear.

Note that a hashed comment or whitespace may occur in between the "text:" and the CRLF, but not within the string itself. Bracketed comments are not allowed here.

2.4.2.1. String Lists

When matching patterns, it is frequently convenient to match against groups of strings instead of single strings. For this reason, a list of strings is allowed in many tests, implying that if the test is true using any one of the strings, then the test is true.

For instance, the test 'header :contains ["To", "Cc"] ["me@example.com", "me00@landru.example.com"]' is true if either a To header or Cc header of the input message contains either of the email addresses "me@example.com" or "me00@landru.example.com".

Conversely, in any case where a list of strings is appropriate, a single string is allowed without being a member of a list: it is equivalent to a list with a single member. This means that the test 'exists "To"' is equivalent to the test 'exists ["To"]'.

2.4.2.2. Headers

Headers are a subset of strings. In the Internet Message Specification [IMAIL], each header line is allowed to have whitespace nearly anywhere in the line, including after the field name and before the subsequent colon. Extra spaces between the header name and the ":" in a header field are ignored.

A header name never contains a colon. The "From" header refers to a line beginning "From:" (or "From :"; etc.). No header will match the string "From:" due to the trailing colon.

Similarly, no header will match a syntactically invalid header name. An implementation MUST NOT cause an error for syntactically invalid header names in tests.

Header lines are unfolded as described in [IMAIL] section 2.2.3. Interpretation of header data SHOULD be done according to [MIME3] section 6.2 (see section 2.7.2 below for details).

2.4.2.3. Addresses

A number of commands call for email addresses, which are also a subset of strings. When these addresses are used in outbound contexts, addresses must be compliant with [IMAIL], but are further constrained within this document. Using the symbols defined in [IMAIL], section 3, the syntax of an address is:

```
sieve-address = addr-spec ; simple address
               / phrase "<" addr-spec ">" ; name & addr-spec
```

That is, routes and group syntax are not permitted. If multiple addresses are required, use a string list. Named groups are not permitted.

It is an error for a script to execute an action with a value for use as an outbound address that doesn't match the "sieve-address" syntax.

2.4.2.4. Encoding Characters Using "encoded-character"

When the "encoded-character" extension is in effect, certain character sequences in strings are replaced by their decoded value. This happens after escape sequences are interpreted and dot-unstuffing has been done. Implementations SHOULD support "encoded-character".

Arbitrary octets can be embedded in strings by using the syntax encoded-arb-octets. The sequence is replaced by the octets with the hexadecimal values given by each hex-pair.

```
blank           = WSP / CRLF
encoded-arb-octets = "${hex:" hex-pair-seq "}"
hex-pair-seq    = *blank hex-pair *(1*blank hex-pair) *blank
hex-pair        = 1*2HEXDIG
```

Where WSP and HEXDIG non-terminals are defined in Appendix B.1 of [ABNF].

It may be inconvenient or undesirable to enter Unicode characters verbatim, and for these cases the syntax encoded-unicode-char can be used. The sequence is replaced by the UTF-8 encoding of the specified Unicode characters, which are identified by the hexadecimal value of unicode-hex.

```
encoded-unicode-char = "${unicode:" unicode-hex-seq "}"
unicode-hex-seq      = *blank unicode-hex
                      *(1*blank unicode-hex) *blank
unicode-hex          = 1*HEXDIG
```

It is an error for a script to use a hexadecimal value that isn't in either the range 0 to D7FF or the range E000 to 10FFFF. (The range D800 to DFFF is excluded as those character numbers are only used as part of the UTF-16 encoding form and are not applicable to the UTF-8 encoding that the syntax here represents.)

Note: Implementations MUST NOT raise an error for an out-of-range Unicode value unless the sequence containing it is well-formed according to the grammar.

The capability string for use with the require command is "encoded-character".

In the following script, message B is discarded, since the specified test string is equivalent to "\$\$\$".

```
Example: require "encoded-character";
        if header :contains "Subject" "${hex:24 24}" {
            discard;
        }
```

The following examples demonstrate valid and invalid encodings and how they are handled:

```
"${hex:40}"      -> "@"
"${hex: 40 }"    -> "@"
"${HEX: 40}"     -> "@"
"${hex:40}"      -> "${hex:40}"
"${hex:400}"     -> "${hex:400}"
"${hex:4${hex:30}}" -> "${hex:40}"
"${unicode:40}"  -> "@"
"${ unicode:40}" -> "${ unicode:40}"
"${UNICODE:40}"  -> "@"
"${UnICoDe:0000040}" -> "@"
"${Unicode:40}"  -> "@"
"${Unicode:Cool}" -> "${Unicode:Cool}"
"${unicode:200000}" -> error
"${Unicode:DF01}" -> error
```


2.5. Tests

Tests are given as arguments to commands in order to control their actions. In this document, tests are given to if/elsif to decide which block of code is run.

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2.5.1. Test Lists

Some tests ("allof" and "anyof", which implement logical "and" and logical "or", respectively) may require more than a single test as an argument. The test-list syntax element provides a way of grouping tests as a comma-separated list in parentheses.

```
Example: if anyof (not exists ["From", "Date"],
                  header :contains "from" "fool@example.com") {
    discard;
}
```

2.6. Arguments

In order to specify what to do, most commands take arguments. There are three types of arguments: positional, tagged, and optional.

It is an error for a script, on a single command, to use conflicting arguments or to use a tagged or optional argument more than once.

2.6.1. Positional Arguments

Positional arguments are given to a command that discerns their meaning based on their order. When a command takes positional arguments, all positional arguments must be supplied and must be in the order prescribed.

2.6.2. Tagged Arguments

This document provides for tagged arguments in the style of CommonLISP. These are also similar to flags given to commands in most command-line systems.

A tagged argument is an argument for a command that begins with ":" followed by a tag naming the argument, such as ":contains". This argument means that zero or more of the next tokens have some particular meaning depending on the argument. These next tokens may be literal data, but they are never blocks.

Tagged arguments are similar to positional arguments, except that instead of the meaning being derived from the command, it is derived from the tag.

Tagged arguments must appear before positional arguments, but they may appear in any order with other tagged arguments. For simplicity of the specification, this is not expressed in the syntax definitions

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with commands, but they still may be reordered arbitrarily provided they appear before positional arguments. Tagged arguments may be mixed with optional arguments.

Tagged arguments SHOULD NOT take tagged arguments as arguments.

2.6.3. Optional Arguments

Optional arguments are exactly like tagged arguments except that they may be left out, in which case a default value is implied. Because optional arguments tend to result in shorter scripts, they have been used far more than tagged arguments.

One particularly noteworthy case is the ":comparator" argument, which allows the user to specify which comparator [COLLATION] will be used to compare two strings, since different languages may impose different orderings on UTF-8 [UTF-8] strings.

2.6.4. Types of Arguments

Abstractly, arguments may be literal data, tests, or blocks of commands. In this way, an "if" control structure is merely a command that happens to take a test and a block as arguments and may execute the block of code.

However, this abstraction is ambiguous from a parsing standpoint.

The grammar in section 8.2 presents a parsable version of this:

Arguments are string lists (string-lists), numbers, and tags, which may be followed by a test or a test list (test-list), which may be followed by a block of commands. No more than one test or test list, or more than one block of commands, may be used, and commands that end with a block of commands do not end with semicolons.

2.7. String Comparison

When matching one string against another, there are a number of ways of performing the match operation. These are accomplished with three types of matches: an exact match, a substring match, and a wildcard glob-style match. These are described below.

In order to provide for matches between character sets and case insensitivity, Sieve uses the comparators defined in the Internet Application Protocol Collation Registry [COLLATION].

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However, when a string represents the name of a header, the comparator is never user-specified. Header comparisons are always done with the "i;ascii-casemap" operator, i.e., case-insensitive comparisons, because this is the way things are defined in the message specification [IMAIL].

2.7.1. Match Type

Commands that perform string comparisons may have an optional match type argument. The three match types in this specification are ":contains", ":is", and ":matches".

The ":contains" match type describes a substring match. If the value argument contains the key argument as a substring, the match is true. For instance, the string "frobnitzm" contains "frob" and "nit", but not "fbm". The empty key ("") is contained in all values.

The ":is" match type describes an absolute match; if the contents of the first string are absolutely the same as the contents of the second string, they match. Only the string "frobnitzm" is the string "frobnitzm". The empty key ("") only ":is" matches with the empty value.

The ":matches" match type specifies a wildcard match using the characters "*" and "?"; the entire value must be matched. "*" matches zero or more characters in the value and "?" matches a single character in the value, where the comparator that is used (see section 2.7.3) defines what a character is. For example, the comparators "i;octet" and "i;ascii-casemap" define a character to be a single octet, so "?" will always match exactly one octet when one of those comparators is in use. In contrast, a Unicode-based comparator would define a character to be any UTF-8 octet sequence encoding one Unicode character and thus "?" may match more than one octet. "?" and "*" may be escaped as "\\?" and "*" in strings to match against themselves. The first backslash escapes the second backslash; together, they escape the "*". This is awkward, but it is commonplace in several programming languages that use globs and regular expressions.

In order to specify what type of match is supposed to happen, commands that support matching take optional arguments ":matches", ":is", and ":contains". Commands default to using ":is" matching if no match type argument is supplied. Note that these modifiers interact with comparators; in particular, only comparators that support the "substring match" operation are suitable for matching with ":contains" or ":matches". It is an error to use a comparator with ":contains" or ":matches" that is not compatible with it.

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It is an error to give more than one of these arguments to a given command.

For convenience, the "MATCH-TYPE" syntax element is defined here as follows:

Syntax: ":is" / ":contains" / ":matches"

2.7.2. Comparisons across Character Sets

Messages may involve a number of character sets. In order for comparisons to work across character sets, implementations SHOULD implement the following behavior:

Comparisons are performed on octets. Implementations convert text from header fields in all charsets [MIME3] to Unicode, encoded as UTF-8, as input to the comparator (see section 2.7.3).
Implementations MUST be capable of converting US-ASCII to UTF-8.

implementations MUST be capable of converting US-ASCII, ISO-8859-1, the US-ASCII subset of ISO-8859-* character sets, and UTF-8. Text that the implementation cannot convert to Unicode for any reason MAY be treated as plain US-ASCII (including any [MIME3] syntax) or processed according to local conventions. An encoded NUL octet (character zero) SHOULD NOT cause early termination of the header content being compared against.

If implementations fail to support the above behavior, they MUST conform to the following:

No two strings can be considered equal if one contains octets greater than 127.

2.7.3. Comparators

In order to allow for language-independent, case-independent matches, the match type may be coupled with a comparator name. The Internet Application Protocol Collation Registry [COLLATION] provides the framework for describing and naming comparators.

All implementations MUST support the "i;octet" comparator (simply compares octets) and the "i;ascii-casemap" comparator (which treats uppercase and lowercase characters in the US-ASCII subset of UTF-8 as the same). If left unspecified, the default is "i;ascii-casemap".

Some comparators may not be usable with substring matches; that is, they may only work with ":is". It is an error to try to use a comparator with ":matches" or ":contains" that is not compatible with it.

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Sieve treats a comparator result of "undefined" the same as a result of "no-match". That is, this base specification does not provide any means to directly detect invalid comparator input.

A comparator is specified by the ":comparator" option with commands that support matching. This option is followed by a string providing the name of the comparator to be used. For convenience, the syntax of a comparator is abbreviated to "COMPARATOR", and (repeated in several tests) is as follows:

Syntax: ":comparator" <comparator-name: string>

So in this example,

```
Example: if header :contains :comparator "i;octet" "Subject"
        "MAKE MONEY FAST" {
    discard;
}
```

would discard any message with subjects like "You can MAKE MONEY FAST", but not "You can Make Money Fast", since the comparator used is case-sensitive.

Comparators other than "i;octet" and "i;ascii-casemap" must be declared with require, as they are extensions. If a comparator declared with require is not known, it is an error, and execution fails. If the comparator is not declared with require, it is also an error, even if the comparator is supported. (See section 2.10.5.)

Both ":matches" and ":contains" match types are compatible with the "i;octet" and "i;ascii-casemap" comparators and may be used with them.

It is an error to give more than one of these arguments to a given command.

2.7.4. Comparisons against Addresses

Addresses are one of the most frequent things represented as strings. These are structured, and being able to compare against the local-part or the domain of an address is useful, so some tests that act exclusively on addresses take an additional optional argument that specifies what the test acts on.

These optional arguments are ":localpart", ":domain", and ":all", which act on the local-part (left side), the domain-part (right side), and the whole address.

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If an address is not syntactically valid, then it will not be matched by tests specifying ":localpart" or ":domain".

The kind of comparison done, such as whether or not the test done is case-insensitive, is specified as a comparator argument to the test.

If an optional address-part is omitted, the default is ":all".

It is an error to give more than one of these arguments to a given command.

For convenience, the "ADDRESS-PART" syntax element is defined here as follows:

Syntax: ":localpart" / ":domain" / ":all"

2.8. Blocks

Blocks are sets of commands enclosed within curly braces and supplied as the final argument to a command. Such a command is a control structure: when executed it has control over the number of times the commands in the block are executed.

With the commands supplied in this memo, there are no loops. The control structures supplied--if, elsif, and else--run a block either once or not at all.

2.9. Commands

Sieve scripts are sequences of commands. Commands can take any of the tokens above as arguments, and arguments may be either tagged or positional arguments. Not all commands take all arguments.

There are three kinds of commands: test commands, action commands, and control commands.

The simplest is an action command. An action command is an identifier followed by zero or more arguments, terminated by a semicolon. Action commands do not take tests or blocks as arguments. The actions referenced in this document are:

- keep, to save the message in the default location
- fileinto, to save the message in a specific mailbox
- redirect, to forward the message to another address
- discard, to silently throw away the message

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A control command is a command that affects the parsing or the flow of execution of the Sieve script in some way. A control structure is a control command that ends with a block instead of a semicolon.

A test command is used as part of a control command. It is used to specify whether or not the block of code given to the control command is executed.

2.10. Evaluation

2.10.1. Action Interaction

Some actions cannot be used with other actions because the result would be absurd. These restrictions are noted throughout this memo.

Extension actions **MUST** state how they interact with actions defined in this specification.

2.10.2. Implicit Keep

Previous experience with filtering systems suggests that cases tend to be missed in scripts. To prevent errors, Sieve has an "implicit keep".

An implicit keep is a keep action (see section 4.3) performed in absence of any action that cancels the implicit keep.

An implicit keep is performed if a message is not written to a mailbox, redirected to a new address, or explicitly thrown out. That is, if a fileinto, a keep, a redirect, or a discard is performed, an implicit keep is not.

Some actions may be defined to not cancel the implicit keep. These actions may not directly affect the delivery of a message, and are used for their side effects. None of the actions specified in this document meet that criteria, but extension actions may.

For instance, with any of the short messages offered above, the following script produces no actions.

Example: if size :over 500K { discard; }

As a result, the implicit keep is taken.

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2.10.3. Message Uniqueness in a Mailbox

Implementations SHOULD NOT deliver a message to the same mailbox more than once, even if a script explicitly asks for a message to be written to a mailbox twice.

The test for equality of two messages is implementation-defined.

If a script asks for a message to be written to a mailbox twice, it MUST NOT be treated as an error.

2.10.4. Limits on Numbers of Actions

Site policy MAY limit the number of actions taken and MAY impose restrictions on which actions can be used together. In the event that a script hits a policy limit on the number of actions taken for a particular message, an error occurs.

Implementations MUST allow at least one keep or one fileinto. If fileinto is not implemented, implementations MUST allow at least one keep.

2.10.5. Extensions and Optional Features

Because of the differing capabilities of many mail systems, several features of this specification are optional. Before any of these extensions can be executed, they must be declared with the "require" action.

If an extension is not enabled with "require", implementations MUST treat it as if they did not support it at all. This protects scripts from having their behavior altered by extensions that the script author might not have even been aware of.

Implementations MUST NOT execute any Sieve script test or command subsequent to "require" if one of the required extensions is unavailable.

Note: The reason for this restriction is that prior experiences with languages such as LISP and Tcl suggest that this is a workable way of noting that a given script uses an extension.

Extensions that define actions MUST state how they interact with actions discussed in the base specification.

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2.10.6. Errors

In any programming language, there are compile-time and run-time errors.

Compile-time errors are ones in syntax that are detectable if a syntax check is done.

Run-time errors are not detectable until the script is run. This includes transient failures like disk full conditions, but also includes issues like invalid combinations of actions.

When an error occurs in a Sieve script, all processing stops.

Implementations MAY choose to do a full parse, then evaluate the script, then do all actions. Implementations might even go so far as to ensure that execution is atomic (either all actions are executed or none are executed).

Other implementations may choose to parse and run at the same time. Such implementations are simpler, but have issues with partial failure (some actions happen, others don't).

Implementations MUST perform syntactic, semantic, and run-time checks on code that is actually executed. Implementations MAY perform those checks or any part of them on code that is not reached during execution.

When an error happens, implementations MUST notify the user that an error occurred and which actions (if any) were taken, and do an implicit keep.

2.10.7. Limits on Execution

Implementations may limit certain constructs. However, this specification places a lower bound on some of these limits.

Implementations MUST support fifteen levels of nested blocks.

Implementations MUST support fifteen levels of nested test lists.

3. Control Commands

Control structures are needed to allow for multiple and conditional actions.

3.1. Control if

There are three pieces to if: "if", "elsif", and "else". Each is actually a separate command in terms of the grammar. However, an elsif or else MUST only follow an if or elsif. An error occurs if these conditions are not met.

Usage: if <test1: test> <block1: block>

Usage: elsif <test2: test> <block2: block>

Usage: else <block3: block>

The semantics are similar to those of any of the many other programming languages these control structures appear in. When the interpreter sees an "if", it evaluates the test associated with it. If the test is true, it executes the block associated with it.

If the test of the "if" is false, it evaluates the test of the first "elsif" (if any). If the test of "elsif" is true, it runs the elsif's block. An elsif may be followed by an elsif, in which case, the interpreter repeats this process until it runs out of elsifs.

When the interpreter runs out of elsifs, there may be an "else" case. If there is, and none of the if or elsif tests were true, the interpreter runs the else's block.

This provides a way of performing exactly one of the blocks in the chain.

In the following example, both messages A and B are dropped.

```
Example: require "fileinto";
        if header :contains "from" "coyote" {
            discard;
        } elsif header :contains ["subject"] ["$$$"] {
            discard;
        } else {
            fileinto "INBOX";
        }
```

When the script below is run over message A, it redirects the message to acm@example.com; message B, to postmaster@example.com; any other message is redirected to field@example.com.

```
Example: if header :contains ["From"] ["coyote"] {
            redirect "acm@example.com";
        } elsif header :contains "Subject" "$$$" {
            redirect "postmaster@example.com";
        } else {
            redirect "field@example.com";
        }
```

Note that this definition prohibits the "... else if ..." sequence used by C. This is intentional, because this construct produces a shift-reduce conflict.

3.2. Control require

Usage: require <capabilities: string-list>

The require action notes that a script makes use of a certain extension. Such a declaration is required to use the extension, as discussed in section 2.10.5. Multiple capabilities can be declared with a single require.

The require command, if present, MUST be used before anything other than a require can be used. An error occurs if a require appears after a command other than require.

Example: require ["fileinto", "reject"];

Example: require "fileinto";

require "vacation";

3.3. Control stop

Usage: stop

The "stop" action ends all processing. If the implicit keep has not been cancelled, then it is taken.

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4. Action Commands

This document supplies four actions that may be taken on a message: keep, fileinto, redirect, and discard.

Implementations MUST support the "keep", "discard", and "redirect" actions.

Implementations SHOULD support "fileinto".

Implementations MAY limit the number of certain actions taken (see section 2.10.4).

4.1. Action fileinto

Usage: fileinto <mailbox: string>

The "fileinto" action delivers the message into the specified mailbox. Implementations SHOULD support fileinto, but in some environments this may be impossible. Implementations MAY place restrictions on mailbox names; use of an invalid mailbox name MAY be treated as an error or result in delivery to an implementation-defined mailbox. If the specified mailbox doesn't exist, the implementation MAY treat it as an error, create the mailbox, or deliver the message to an implementation-defined mailbox. If the implementation uses a different encoding scheme than UTF-8 for mailbox names, it SHOULD reencode the mailbox name from UTF-8 to its encoding scheme. For example, the Internet Message Access Protocol [IMAP] uses modified UTF-7, such that a mailbox argument of "odds & ends" would appear in IMAP as "odds &- ends".

The capability string for use with the require command is "fileinto".

In the following script, message A is filed into mailbox "INBOX.harassment".

```
Example: require "fileinto";
        if header :contains ["from"] "coyote" {
            fileinto "INBOX.harassment";
        }
```

4.2. Action redirect

Usage: redirect <address: string>

The "redirect" action is used to send the message to another user at a supplied address, as a mail forwarding feature does. The "redirect" action makes no changes to the message body or existing

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headers, but it may add new headers. In particular, existing Received headers MUST be preserved and the count of Received headers in the outgoing message MUST be larger than the same count on the message as received by the implementation. (An implementation that adds a Received header before processing the message does not need to add another when redirecting.)

The message is sent back out with the address from the redirect command as an envelope recipient. Implementations MAY combine separate redirects for a given message into a single submission with multiple envelope recipients. (This is not a Mail User Agent (MUA)-style forward, which creates a new message with a different sender and message ID, wrapping the old message in a new one.)

The envelope sender address on the outgoing message is chosen by the sieve implementation. It MAY be copied from the message being processed. However, if the message being processed has an empty envelope sender address the outgoing message MUST also have an empty envelope sender address. This last requirement is imposed to prevent loops in the case where a message is redirected to an invalid address when then returns a delivery status notification that also ends up being redirected to the same invalid address.

A simple script can be used for redirecting all mail:

Example: `redirect "bart@example.com";`

Implementations **MUST** take measures to implement loop control, possibly including adding headers to the message or counting Received headers as specified in section 6.2 of [SMTP]. If an implementation detects a loop, it causes an error.

Implementations **MUST** provide means of limiting the number of redirects a Sieve script can perform. See section 10 for more details.

Implementations **MAY** ignore a redirect action silently due to policy reasons. For example, an implementation **MAY** choose not to redirect to an address that is known to be undeliverable. Any ignored redirect **MUST NOT** cancel the implicit keep.

4.3. Action keep

Usage: `keep`

The "keep" action is whatever action is taken in lieu of all other actions, if no filtering happens at all; generally, this simply means to file the message into the user's main mailbox. This command

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provides a way to execute this action without needing to know the name of the user's main mailbox, providing a way to call it without needing to understand the user's setup or the underlying mail system.

For instance, in an implementation where the IMAP server is running scripts on behalf of the user at time of delivery, a keep command is equivalent to a `fileinto "INBOX"`.

Example: `if size :under 1M { keep; } else { discard; }`

Note that the above script is identical to the one below.

Example: `if not size :under 1M { discard; }`

4.4. Action discard

Usage: `discard`

Discard is used to silently throw away the message. It does so by simply canceling the implicit keep. If discard is used with other actions, the other actions still happen. Discard is compatible with all other actions. (For instance, `fileinto+discard` is equivalent to `fileinto`.)

Discard **MUST** be silent; that is, it **MUST NOT** return a non-delivery notification of any kind ([DSN], [MDN], or otherwise).

In the following script, any mail from "idiot@example.com" is thrown out.

Example: `if header :contains ["from"] ["idiot@example.com"] {
 discard;
}`

While an important part of this language, "discard" has the potential to create serious problems for users: Students who leave themselves logged in to an unattended machine in a public computer lab may find their script changed to just "discard". In order to protect users in this situation (along with similar situations), implementations **MAY** keep messages destroyed by a script for an indefinite period, and **MAY** disallow scripts that throw out all mail.

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5. Test Commands

Tests are used in conditionals to decide which part(s) of the conditional to execute.

Implementations **MUST** support these tests: "address", "allof", "anyof", "exists", "false", "header", "not", "size", and "true".

Implementations **SHOULD** support the "envelope" test.

5.1. Test address

Usage: address [COMPARATOR] [ADDRESS-PART] [MATCH-TYPE]
<header-list: string-list> <key-list: string-list>

The "address" test matches Internet addresses in structured headers that contain addresses. It returns true if any header contains any key in the specified part of the address, as modified by the comparator and the match keyword. Whether there are other addresses present in the header doesn't affect this test; this test does not provide any way to determine whether an address is the only address in a header.

Like envelope and header, this test returns true if any combination of the header-list and key-list arguments match and returns false otherwise.

Internet email addresses [IMAIL] have the somewhat awkward characteristic that the local-part to the left of the at-sign is considered case sensitive, and the domain-part to the right of the at-sign is case insensitive. The "address" command does not deal with this itself, but provides the ADDRESS-PART argument for allowing users to deal with it.

The address primitive never acts on the phrase part of an email address or on comments within that address. It also never acts on group names, although it does act on the addresses within the group construct.

Implementations MUST restrict the address test to headers that contain addresses, but MUST include at least From, To, Cc, Bcc, Sender, Resent-From, and Resent-To, and it SHOULD include any other header that utilizes an "address-list" structured header body.

```
Example: if address :is :all "from" "tim@example.com" {  
        discard;  
    }
```

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5.2. Test allof

Usage: allof <tests: test-list>

The "allof" test performs a logical AND on the tests supplied to it.

```
Example: allof (false, false) => false  
        allof (false, true) => false  
        allof (true, true) => true
```

The allof test takes as its argument a test-list.

5.3. Test anyof

Usage: anyof <tests: test-list>

The "anyof" test performs a logical OR on the tests supplied to it.

```
Example: anyof (false, false) => false  
        anyof (false, true) => true  
        anyof (true, true) => true
```

5.4. Test envelope

Usage: envelope [COMPARATOR] [ADDRESS-PART] [MATCH-TYPE]
<envelope-part: string-list> <key-list: string-list>

The "envelope" test is true if the specified part of the [SMTP] (or equivalent) envelope matches the specified key. This specification defines the interpretation of the (case insensitive) "from" and "to" envelope-parts. Additional envelope-parts may be defined by other extensions; implementations SHOULD consider unknown envelope parts an error.

If one of the envelope-part strings is (case insensitive) "from", then matching occurs against the FROM address used in the SMTP MAIL command. The null reverse-path is matched against as the empty string, regardless of the ADDRESS-PART argument specified.

If one of the envelope-part strings is (case insensitive) "to", then matching occurs against the TO address used in the SMTP RCPT command that resulted in this message getting delivered to this user. Note that only the most recent TO is available, and only the one relevant to this user.

The envelope-part is a string list and may contain more than one parameter, in which case all of the strings specified in the key-list are matched against all parts given in the envelope-part list.

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Like address and header, this test returns true if any combination of

the envelope-part list and key-list arguments match and returns false otherwise.

All tests against envelopes MUST drop source routes.

If the SMTP transaction involved several RCPT commands, only the data from the RCPT command that caused delivery to this user is available in the "to" part of the envelope.

If a protocol other than SMTP is used for message transport, implementations are expected to adapt this command appropriately.

The envelope command is optional. Implementations SHOULD support it, but the necessary information may not be available in all cases. The capability string for use with the require command is "envelope".

```
Example: require "envelope";
        if envelope :all :is "from" "tim@example.com" {
            discard;
        }
```

5.5. Test exists

Usage: exists <header-names: string-list>

The "exists" test is true if the headers listed in the header-names argument exist within the message. All of the headers must exist or the test is false.

The following example throws out mail that doesn't have a From header and a Date header.

```
Example: if not exists ["From","Date"] {
    discard;
}
```

5.6. Test false

Usage: false

The "false" test always evaluates to false.

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5.7. Test header

Usage: header [COMPARATOR] [MATCH-TYPE]
<header-names: string-list> <key-list: string-list>

The "header" test evaluates to true if the value of any of the named headers, ignoring leading and trailing whitespace, matches any key. The type of match is specified by the optional match argument, which defaults to ":is" if not specified, as specified in section 2.6.

Like address and envelope, this test returns true if any combination of the header-names list and key-list arguments match and returns false otherwise.

If a header listed in the header-names argument exists, it contains the empty key (""). However, if the named header is not present, it does not match any key, including the empty key. So if a message contained the header

```
X-Caffeine: C8H10N4O2
```

these tests on that header evaluate as follows:

```
header :is ["X-Caffeine"] [""]    => false
header :contains ["X-Caffeine"] [""] => true
```

Testing whether a given header is either absent or doesn't contain any non-whitespace characters can be done using a negated "header" test:

```
not header :matches "Cc" "?*"
```

5.8. Test not

Usage: not <test1: test>

The "not" test takes some other test as an argument, and yields the opposite result. "not false" evaluates to "true" and "not true" evaluates to "false".

5.9. Test size

Usage: size <":over" / ":under"> <limit: number>

The "size" test deals with the size of a message. It takes either a tagged argument of ":over" or ":under", followed by a number representing the size of the message.

If the argument is ":over", and the size of the message is greater than the number provided, the test is true; otherwise, it is false.

If the argument is ":under", and the size of the message is less than the number provided, the test is true; otherwise, it is false.

Exactly one of ":over" or ":under" must be specified, and anything else is an error.

The size of a message is defined to be the number of octets in the [IMAIL] representation of the message.

Note that for a message that is exactly 4,000 octets, the message is neither ":over" nor ":under" 4000 octets.

5.10. Test true

Usage: true

The "true" test always evaluates to true.

6. Extensibility

New control commands, actions, and tests can be added to the language. Sites must make these features known to their users; this document does not define a way to discover the list of extensions supported by the server.

Any extensions to this language MUST define a capability string that uniquely identifies that extension. Capability strings are case-sensitive; for example, "foo" and "FOO" are different capabilities. If a new version of an extension changes the functionality of a previously defined extension, it MUST use a different name. Extensions may register a set of related capabilities by registering just a unique prefix for them. The "comparator-" prefix is an example of this. The prefix MUST end with a "-" and MUST NOT overlap any existing registrations.

In a situation where there is a script submission protocol and an extension advertisement mechanism aware of the details of this language, scripts submitted can be checked against the mail server to prevent use of an extension that the server does not support.

Extensions MUST state how they interact with constraints defined in section 2.10, e.g., whether they cancel the implicit keep, and which actions they are compatible and incompatible with. Extensions MUST NOT change the behavior of the "require" control command or alter the interpretation of the argument to the "require" control.

Extensions that can submit new email messages or otherwise generate new protocol requests MUST consider loop suppression, at least to document any security considerations.

6.1. Capability String

Capability strings are typically short strings describing what capabilities are supported by the server.

Capability strings beginning with "vnd." represent vendor-defined extensions. Such extensions are not defined by Internet standards or RFCs, but are still registered with IANA in order to prevent conflicts. Extensions starting with "vnd." SHOULD be followed by the name of the vendor and product, such as "vnd.acme.rocket-sled".

The following capability strings are defined by this document:

encoded-character The string "encoded-character" indicates that the implementation supports the interpretation of "\${hex:...}" and "\${unicode:...}" in strings.

envelope The string "envelope" indicates that the implementation supports the "envelope" command.

fileinto The string "fileinto" indicates that the implementation supports the "fileinto" command.

comparator- The string "comparator-elbonia" is provided if the implementation supports the "elbonia" comparator. Therefore, all implementations have at least the "comparator-i;octet" and "comparator-i;ascii-casemap" capabilities. However, these comparators may be used without being declared with require.

6.2. IANA Considerations

In order to provide a standard set of extensions, a registry is

In order to provide a standard set of extensions, a registry is maintained by IANA. This registry contains both vendor-controlled capability names (beginning with "vnd.") and IETF-controlled capability names. Vendor-controlled capability names may be registered on a first-come, first-served basis, by applying to IANA with the form in the following section. Registration of capability prefixes that do not begin with "vnd." REQUIRES a standards track or IESG-approved experimental RFC.

Extensions designed for interoperable use SHOULD use IETF-controlled capability names.

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6.2.1. Template for Capability Registrations

The following template is to be used for registering new Sieve extensions with IANA.

To: iana@iana.org
Subject: Registration of new Sieve extension

Capability name: [the string for use in the 'require' statement]
Description: [a brief description of what the extension adds
 or changes]
RFC number: [for extensions published as RFCs]
Contact address: [email and/or physical address to contact for
 additional information]

6.2.2. Handling of Existing Capability Registrations

In order to bring the existing capability registrations in line with the new template, IANA has modified each as follows:

1. The "capability name" and "capability arguments" fields have been eliminated
2. The "capability keyword" field have been renamed to "Capability name"
3. An empty "Description" field has been added
4. The "Standards Track/IESG-approved experimental RFC number" field has been renamed to "RFC number"
5. The "Person and email address to contact for further information" field should be renamed to "Contact address"

6.2.3. Initial Capability Registrations

This RFC updates the following entries in the IANA registry for Sieve extensions.

Capability name: encoded-character
Description: changes the interpretation of strings to allow
 arbitrary octets and Unicode characters to be
 represented using US-ASCII
RFC number: RFC 5228 (Sieve base spec)
Contact address: The Sieve discussion list <ietf-mta-filters@imc.org>

Capability name: fileinto
Description: adds the 'fileinto' action for delivering to a
 mailbox other than the default
RFC number: RFC 5228 (Sieve base spec)
Contact address: The Sieve discussion list <ietf-mta-filters@imc.org>

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Capability name: envelope
Description: adds the 'envelope' test for testing the message
 transport sender and recipient address
RFC number: RFC 5228 (Sieve base spec)
Contact address: The Sieve discussion list <ietf-mta-filters@imc.org>

Capability name: comparator-* (anything starting with "comparator-")
Description: adds the indicated comparator for use with the
 :comparator argument
RFC number: RFC 5228 (Sieve base spec) and [COLLATION]
Contact address: The Sieve discussion list <ietf-mta-filters@imc.org>

6.3. Capability Transport

A method of advertising which capabilities an implementation supports is difficult due to the wide range of possible implementations. Such a mechanism, however, should have the property that the implementation can advertise the complete set of extensions that it supports.

7. Transmission

The [MIME] type for a Sieve script is "application/sieve".

The registration of this type for RFC 2048 requirements is updated as follows:

Subject: Registration of MIME media type application/sieve

MIME media type name: application
MIME subtype name: sieve
Required parameters: none
Optional parameters: none
Encoding considerations: Most Sieve scripts will be textual,
written in UTF-8. When non-7bit characters are used,
quoted-printable is appropriate for transport systems
that require 7bit encoding.
Security considerations: Discussed in section 10 of this RFC.
Interoperability considerations: Discussed in section 2.10.5
of this RFC.
Published specification: this RFC.
Applications that use this media type: sieve-enabled mail
servers and clients
Additional information:
Magic number(s):
File extension(s): .siv .sieve
Macintosh File Type Code(s):

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Person & email address to contact for further information:
See the discussion list at ietf-mta-filters@imc.org.
Intended usage:
COMMON
Author/Change controller:
The SIEVE WG, delegated by the IESG.

8. Parsing

The Sieve grammar is separated into tokens and a separate grammar as most programming languages are. Additional rules are supplied here for common arguments to various language facilities.

8.1. Lexical Tokens

Sieve scripts are encoded in UTF-8. The following assumes a valid UTF-8 encoding; special characters in Sieve scripts are all US-ASCII.

The following are tokens in Sieve:

- identifiers
- tags
- numbers
- quoted strings
- multi-line strings
- other separators

Identifiers, tags, and numbers are case-insensitive, while quoted strings and multi-line strings are case-sensitive.

Blanks, horizontal tabs, CRLFs, and comments ("whitespace") are ignored except as they separate tokens. Some whitespace is required to separate otherwise adjacent tokens and in specific places in the multi-line strings. CR and LF can only appear in CRLF pairs.

The other separators are single individual characters and are mentioned explicitly in the grammar.

The lexical structure of sieve is defined in the following grammar (as described in [ABNF]):

```
bracket-comment = "/" *not-star 1*STAR
                  *(not-star-slash *not-star 1*STAR) "/"
                  ; No */ allowed inside a comment.
                  ; (No * is allowed unless it is the last
                  ; character, or unless it is followed by a
                  ; character that isn't a slash.)
```

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```
comment          = bracket-comment / hash-comment
hash-comment      = "#" *octet-not-crlf CRLF
identifier        = (ALPHA / "_" ) *(ALPHA / DIGIT / "_" )
multi-line        = "text:" *(SP / HTAB) (hash-comment / CRLF)
                  *(multiline-literal / multiline-dotstart)
                  "." CRLF
multiline-literal = [ octet-not-period *octet-not-crlf ] CRLF
multiline-dotstart = "." 1*octet-not-crlf CRLF
                  ; A line containing only "." ends the
                  ; multi-line. Remove a leading '.' if
                  ; followed by another '.'.
```



```

not-star      = CRLF / %x01-09 / %x0B-0C / %x0E-29 / %x2B-FF
                ; either a CRLF pair, OR a single octet
                ; other than NUL, CR, LF, or star

not-star-slash = CRLF / %x01-09 / %x0B-0C / %x0E-29 / %x2B-2E /
                %x30-FF
                ; either a CRLF pair, OR a single octet
                ; other than NUL, CR, LF, star, or slash

number        = 1*DIGIT [ QUANTIFIER ]

octet-not-crlf = %x01-09 / %x0B-0C / %x0E-FF
                ; a single octet other than NUL, CR, or LF

octet-not-period = %x01-09 / %x0B-0C / %x0E-2D / %x2F-FF
                  ; a single octet other than NUL,
                  ; CR, LF, or period

octet-not-qspecial = %x01-09 / %x0B-0C / %x0E-21 / %x23-5B / %x5D-FF
                    ; a single octet other than NUL,
                    ; CR, LF, double-quote, or backslash

QUANTIFIER     = "K" / "M" / "G"

quoted-other   = "\" octet-not-qspecial
                ; represents just the octet-no-qspecial
                ; character. SHOULD NOT be used

quoted-safe    = CRLF / octet-not-qspecial
                ; either a CRLF pair, OR a single octet other
                ; than NUL, CR, LF, double-quote, or backslash

```

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```

quoted-special = "\" (DQUOTE / "\" )
                ; represents just a double-quote or backslash

quoted-string  = DQUOTE quoted-text DQUOTE

quoted-text    = *(quoted-safe / quoted-special / quoted-other)

STAR           = "*"

tag            = ":" identifier

white-space    = 1*(SP / CRLF / HTAB) / comment

```

8.2. Grammar

The following is the grammar of Sieve after it has been lexically interpreted. No whitespace or comments appear below. The start symbol is "start".

```

argument       = string-list / number / tag

arguments      = *argument [ test / test-list ]

block          = "{" commands "}"

command        = identifier arguments (";" / block)

commands       = *command

start          = commands

string         = quoted-string / multi-line

string-list    = "[" string *("," string) "]" / string
                ; if there is only a single string, the brackets
                ; are optional

test           = identifier arguments

test-list      = "(" test *("," test) ")"

```

8.3. Statement Elements

These elements are collected from the "Syntax" sections elsewhere in this document, and are provided here in [ABNF] syntax so that they can be modified by extensions.

```
ADDRESS-PART = ":localpart" / ":domain" / ":all"
```

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```

COMPARATOR     = ":comparator" string

MATCH-TYPE     = ":is" / ":contains" / ":matches"

```

9. Extended Example

The following is an extended example of a Sieve script. Note that it does not make use of the implicit keep.

```
#
# Example Sieve Filter
# Declare any optional features or extension used by the script
#
require ["fileinto"];

#
# Handle messages from known mailing lists
# Move messages from IETF filter discussion list to filter mailbox
#
if header :is "Sender" "owner-ietf-mta-filters@imc.org"
{
    fileinto "filter"; # move to "filter" mailbox
}

#
# Keep all messages to or from people in my company
#
elsif address :DOMAIN :is ["From", "To"] "example.com"
{
    keep; # keep in "In" mailbox
}

#
# Try and catch unsolicited email. If a message is not to me,
# or it contains a subject known to be spam, file it away.
#
elsif anyof (NOT address :all :contains
    ["To", "Cc", "Bcc"] "me@example.com",
    header :matches "subject"
    ["*make*money*fast*", "*university*dipl*mas*"])
{
    fileinto "spam"; # move to "spam" mailbox
}
else
{
    # Move all other (non-company) mail to "personal"
    # mailbox.
    fileinto "personal";
}
```

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10. Security Considerations

Users must get their mail. It is imperative that whatever implementations use to store the user-defined filtering scripts protect them from unauthorized modification, to preserve the integrity of the mail system. An attacker who can modify a script can cause mail to be discarded, rejected, or forwarded to an unauthorized recipient. In addition, it's possible that Sieve scripts might expose private information, such as mailbox names, or email addresses of favored (or disfavored) correspondents. Because of that, scripts SHOULD also be protected from unauthorized retrieval.

Several commands, such as "discard", "redirect", and "fileinto", allow for actions to be taken that are potentially very dangerous.

Use of the "redirect" command to generate notifications may easily overwhelm the target address, especially if it was not designed to handle large messages.

Allowing a single script to redirect to multiple destinations can be used as a means of amplifying the number of messages in an attack. Moreover, if loop detection is not properly implemented, it may be possible to set up exponentially growing message loops. Accordingly, Sieve implementations:

- (1) MUST implement facilities to detect and break message loops. See section 6.2 of [SMTP] for additional information on basic loop detection strategies.
- (2) MUST provide the means for administrators to limit the ability of users to abuse redirect. In particular, it MUST be possible to limit the number of redirects a script can perform. Additionally, if no use cases exist for using redirect to multiple destinations, this limit SHOULD be set to 1. Additional limits, such as the ability to restrict redirect to local users, MAY also be implemented.
- (3) MUST provide facilities to log use of redirect in order to facilitate tracking down abuse.
- (4) MAY use script analysis to determine whether or not a given script can be executed safely. While the Sieve language is sufficiently complex that full analysis of all possible scripts is computationally infeasible, the majority of real-world scripts are amenable to analysis. For example, an implementation might

allow scripts that it has determined are safe to run unhindered, block scripts that are potentially problematic, and subject unclassifiable scripts to additional auditing and logging.

Allowing redirects at all may not be appropriate in situations where email accounts are freely available and/or not trackable to a human who can be held accountable for creating message bombs or other abuse.

As with any filter on a message stream, if the Sieve implementation and the mail agents 'behind' Sieve in the message stream differ in their interpretation of the messages, it may be possible for an attacker to subvert the filter. Of particular note are differences in the interpretation of malformed messages (e.g., missing or extra syntax characters) or those that exhibit corner cases (e.g., NUL octets encoded via [MIME3]).

11. Acknowledgments

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12. Normative References

- [ABNF] Crocker, D., Ed., and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", RFC 4234, October 2005.
- [COLLATION] Newman, C., Duerst, M., and A. Gulbrandsen, "Internet Application Protocol Collation Registry", RFC 4790, March 2007.
- [IMAIL] Resnick, P., Ed., "Internet Message Format", RFC 2822, April 2001.
- [KEYWORDS] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.
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- [MIME3] Moore, K., "MIME (Multipurpose Internet Mail Extensions) Part Three: Message Header Extensions for Non-ASCII Text", RFC 2047, November 1996.

- [SMTP] Klensin, J., Ed., "Simple Mail Transfer Protocol", RFC 2821, April 2001.
- [UTF-8] Yergeau, F., "UTF-8, a transformation format of ISO 10646", STD 63, RFC 3629, November 2003.

13. Informative References

- [BINARY-SI] "Standard IEC 60027-2: Letter symbols to be used in electrical technology - Part 2: Telecommunications and electronics", January 1999.
- [DSN] Moore, K. and G. Vaudreuil, "An Extensible Message Format for Delivery Status Notifications", RFC 3464, January 2003.
- [FLAMES] Borenstein, N. and C. Thyberg, "Power, Ease of Use, and Cooperative Work in a Practical Multimedia Message System", Int. J. of Man-Machine Studies, April, 1991. Reprinted in Computer-Supported Cooperative Work and Groupware, Saul Greenberg, editor, Harcourt Brace Jovanovich, 1991. Reprinted in Readings in Groupware and Computer-Supported Cooperative Work, Ronald Baecker, editor, Morgan Kaufmann, 1993.
- [IMAP] Crispin, M., "Internet Message Access Protocol - version 4rev1", RFC 3501, March 2003.
- [MDN] Hansen, T., Ed., and G. Vaudreuil, Ed., "Message Disposition Notification", RFC 3798, May 2004.
- [RFC3028] Showalter, T., "Sieve: A Mail Filtering Language", RFC 3028, January 2001.

14. Changes from RFC 3028

This following list is a summary of the changes that have been made in the Sieve language base specification from [RFC3028].

1. Removed ban on tests having side-effects
2. Removed reject extension (will be specified in a separate RFC)
3. Clarified description of comparators to match [COLLATION], the new base specification for them
4. Require stripping of leading and trailing whitespace in "header" test
5. Clarified or tightened handling of many minor items, including:
 - invalid [MIME3] encoding
 - invalid addresses in headers
 - invalid header field names in tests
 - 'undefined' comparator result
 - unknown envelope parts
 - null return-path in "envelope" test
6. Capability strings are case-sensitive
7. Clarified that fileinto should reencode non-ASCII mailbox names to match the mailstore's conventions
8. Errors in the ABNF were corrected
9. The references were updated and split into normative and informative
10. Added encoded-character capability and deprecated (but did not remove) use of arbitrary binary octets in Sieve scripts.
11. Updated IANA registration template, and added IANA considerations to permit capability prefix registrations.
12. Added .sieve as a valid extension for Sieve scripts.

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<https://web.archive.org/web/20080619065643/https://www.rfc-editor.org/rfc/rfc5233.txt>

Network Working Group
Request for Comments: 5233
Obsoletes: 3598
Category: Standards Track

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January 2008

Sieve Email Filtering: Subaddress Extension

Status of This Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD 1) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

On email systems that allow for 'subaddressing' or 'detailed addressing' (e.g., "ken+sieve@example.org"), it is sometimes desirable to make comparisons against these sub-parts of addresses. This document defines an extension to the Sieve Email Filtering Language that allows users to compare against the user and detail sub-parts of an address.

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1. Introduction

Subaddressing is the practice of augmenting the local-part of an [RFC2822] address with some 'detail' information in order to give some extra meaning to that address. One common way of encoding 'detail' information into the local-part is to add a 'separator character sequence', such as "+", to form a boundary between the 'user' (original local-part) and 'detail' sub-parts of the address, much like the "@" character forms the boundary between the local-part and domain.

Typical uses of subaddressing might be:

- o A message addressed to "ken+sieve@example.org" is delivered into a mailbox called "sieve" belonging to the user "ken".
- o A message addressed to "5551212#123@example.com" is delivered to the voice mailbox number "123" at phone number "5551212".

This document describes an extension to the Sieve language defined by [RFC5228] for comparing against the 'user' and 'detail' sub-parts of an address.

2. Conventions Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

3. Capability Identifier

The capability string associated with the extension defined in this document is "subaddress".

4. Subaddress Comparisons

Test commands that act exclusively on addresses may take the optional tagged arguments ":user" and ":detail" to specify what sub-part of the local-part of the address will be acted upon.

NOTE: In most cases, the envelope "to" address is the preferred address to examine for subaddress information when the desire is to sort messages based on how they were addressed so as to get to a specific recipient. The envelope address is, after all, the reason a given message is being processed by a given sieve script for a given user. This is particularly true when mailing lists,

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aliases, and 'virtual domains' are involved since the envelope may be the only source of detail information for the specific recipient.

NOTE: Because the encoding of detailed addresses are site and/or implementation specific, using the subaddress extension on foreign addresses (such as the envelope "from" address or originator header fields) may lead to inconsistent or incorrect results.

The ":user" argument specifies the user sub-part of the local-part of an address. If the address is not encoded to contain a detail sub-part, then ":user" specifies the entire left side of the address (equivalent to ":localpart").

The ":detail" argument specifies the detail sub-part of the local-part of an address. If the address is not encoded to contain a detail sub-part, then the address fails to match any of the specified keys. If a zero-length string is encoded as the detail sub-part, then ":detail" resolves to the empty value ("").

NOTE: If the encoding method used for detailed addresses utilizes a separator character sequence, and the separator character sequence occurs more than once in the local-part, then the logic used to split the address is implementation-defined and is usually dependent on the format used by the encompassing mail system.

Implementations MUST make sure that the encoding method used for detailed addresses matches that which is used and/or allowed by the encompassing mail system, otherwise unexpected results might occur. Note that the mechanisms used to define and/or query the encoding method used by the mail system are outside the scope of this document.

The ":user" and ":detail" address parts are subject to the same rules and restrictions as the standard address parts defined in [RFC5228], Section 2.7.4.

For convenience, the "ADDRESS-PART" syntax element defined in [RFC5228], Section 2.7.4, is augmented here as follows:

```
ADDRESS-PART =/ ":user" / ":detail"
```

A diagram showing the ADDRESS-PARTs of an email address where the detail information follows a separator character sequence of "+" is shown below:

```
:user "+" :detail "@" :domain  
 \-----/  
 :local-part
```

A diagram showing the ADDRESS-PARTs of a email address where the detail information precedes a separator character sequence of "--" is shown below:

```
:detail "--" :user "@" :domain  
 \-----/  
 :local-part
```

Example (where the detail information follows "+"):

```
require ["envelope", "subaddress", "fileinto"];  
  
# In this example the same user account receives mail for both  
# "ken@example.com" and "postmaster@example.com"  
  
# File all messages to postmaster into a single mailbox,  
# ignoring the :detail part.  
if envelope :user "to" "postmaster" {  
    fileinto "inbox.postmaster";  
    stop;  
}
```



```

    }
    # File mailing list messages (subscribed as "ken+mta-filters").
    if envelope :detail "to" "mta-filters" {
        fileinto "inbox.ietf-mta-filters";
    }

    # Redirect all mail sent to "ken+foo".
    if envelope :detail "to" "foo" {
        redirect "ken@example.net";
    }

```

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5. IANA Considerations

The following template specifies the IANA registration of the subaddress Sieve extension specified in this document. This registration replaces that from RFC 3598:

To: iana@iana.org
Subject: Registration of new Sieve extension

Capability name: subaddress
Description: Adds the ':user' and ':detail' address parts
for use with the address and envelope tests
RFC number: RFC 5233
Contact address: The Sieve discussion list <ietf-mta-filters@imc.org>

This information has been added to the list of Sieve extensions given on <http://www.iana.org/assignments/sieve-extensions>.

6. Security Considerations

Security considerations are discussed in [RFC5228]. It is believed that this extension does not introduce any additional security concerns.

7. Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.
- [RFC2822] Resnick, P., "Internet Message Format", RFC 2822, April 2001.
- [RFC5228] Guenther, P., Ed., and T. Showalter, Ed., "Sieve: An Email Filtering Language", RFC 5228, January 2008.

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Appendix A. Acknowledgments

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Appendix B. Changes since RFC 3598

- o Discussion of how the user and detail information is encoded now uses generic language.
- o Added note detailing that this extension is most useful when used on the envelope "to" address.

- o Added note detailing that this extension isn't very useful on foreign addresses (envelope "from" or originator header fields).
- o Fixed envelope test example to only use "to" address.
- o Replaced ":user" example with one that doesn't produce unexpected behavior.
- o Refer to the zero-length string ("") as "empty" instead of "null" (per RFC 5228).
- o Use only RFC 2606 domains in examples.
- o Miscellaneous editorial changes.

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