

Network Working Group  
Request for Comments: 2099  
Category: Informational

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ISI  
March 1997

## Request for Comments Summary

RFC Numbers 2000-2099

### Status of This Memo

This RFC is a slightly annotated list of the 100 RFCs from RFC 2000 through RFCs 2099. This is a status report on these RFCs. This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

### Note

Many RFCs, but not all, are Proposed Standards, Draft Standards, or Standards. Since the status of these RFCs may change during the standards processing, we note here only that they are on the standards track. Please see the latest edition of "Internet Official Protocol Standards" for the current state and status of these RFCs. In the following, RFCs on the standards track are marked [STANDARDS-TRACK].

RFC	Author	Date	Title
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2099	Elliott	Mar 97	Request for Comments Summary

This memo.

2098	Katsube	Feb 97	Toshiba's Router Architecture Extensions for ATM : Overview
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This memo describes a new internetworking architecture which makes better use of the property of ATM. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.



2091      Meyer            Jan 97      Triggered Extensions to RIP to Support  
   Demand Circuits

This document defines a modification which can be applied to Bellman-Ford (distance vector) algorithm information broadcasting protocols.  
[STANDARDS-TRACK]

2090      Emberson        Feb 97      TFTP Multicast Option

This document describes a new TFTP option. This new option will allow the multiple clients to receive the same file concurrently through the use of Multicast packets. This memo defines an Experimental Protocol for the Internet community.

2089      Wijnen           Jan 97      V2ToV1 Mapping SNMPv2 onto SNMPv1 within  
   a bi-lingual SNMP agent

The goal of this memo is to document a common way of mapping an SNMPv2 response into an SNMPv1 response within a bi-lingual SNMP agent (one that supports both SNMPv1 and SNMPv2). This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2088      Myers               Jan 97      IMAP4 non-synchronizing literals

The Internet Message Access Protocol [IMAP4] contains the "literal" syntactic construct for communicating strings. When sending a literal from client to server, IMAP4 requires the client to wait for the server to send a command continuation request between sending the octet count and the string data. This document specifies an alternate form of literal which does not require this network round trip. [STANDARDS-TRACK]

2087      Myers               Jan 97      IMAP4 QUOTA extension

The QUOTA extension of the Internet Message Access Protocol [IMAP4] permits administrative limits on resource usage (quotas) to be manipulated through the IMAP protocol. [STANDARDS-TRACK]

2086      Myers            Jan 97    IMAP4 ACL extension

The ACL extension of the Internet Message Access Protocol [IMAP4] permits access control lists to be manipulated through the IMAP protocol. [STANDARDS-TRACK]

2085      Oehler            Feb 97    HMAC-MD5 IP Authentication with Replay Prevention

This document describes a keyed-MD5 transform to be used in conjunction with the IP Authentication Header [RFC-1826]. The particular transform is based on [HMAC-MD5]. An option is also specified to guard against replay attacks. [STANDARDS-TRACK]

2084      Bossert            Jan 97    Considerations for Web Transaction Security

This document specifies the requirements for the provision of security services to the HyperText Transport Protocol. These services include confidentiality, integrity, user authentication, and authentication of servers/services, including proxied or gatewayed services. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2083      Boutell            Jan 97    PNG (Portable Network Graphics) Specification Version 1.0

This document describes PNG (Portable Network Graphics), an extensible file format for the lossless, portable, well-compressed storage of raster images. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2082      Baker                Jan 97    RIP-2 MD5 Authentication

Growth in the Internet has made us aware of the need for improved authentication of routing information. RIP-2 provides for unauthenticated service (as in classical RIP), or password authentication. [STANDARDS-TRACK]





2071      Ferguson      Jan 97      Network Renumbering Overview:  
   Why would I want it and what is it anyway?

This document attempts to clearly define the concept of network renumbering and discuss some of the more pertinent reasons why an organization would have a need to do so. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2070      Yergeau      Jan 97      Internationalization of the Hypertext  
   Markup Language

This document is meant to address the issue of the internationalization (i18n, i followed by 18 letters followed by n) of HTML by extending the specification of HTML and giving additional recommendations for proper internationalization support. [STANDARDS-TRACK]

2069      Franks      Jan 97      An Extension to HTTP : Digest Access  
   Authentication

The protocol referred to as "HTTP/1.0" includes the specification for a Basic Access Authentication scheme. This scheme is not considered to be a secure method of user authentication, as the user name and password are passed over the network as clear text. A specification for a different authentication scheme is needed to address this severe limitation. This document provides specification for such a scheme, referred to as "Digest Access Authentication". [STANDARDS-TRACK]

2068      Fielding      Jan 97      Hypertext Transfer Protocol -- HTTP/1.1

The Hypertext Transfer Protocol (HTTP) is an application-level protocol for distributed, collaborative, hypermedia information systems.  
[STANDARDS-TRACK]

2067      Renwick      Jan 97      IP over HIPPI

ANSI Standard X3.218-1993 (HIPPI-LE[3]) defines the encapsulation of IEEE 802.2 LLC PDUs and, by implication, IP on HIPPI. This memo is a revision of RFC 1374, "IP and ARP on HIPPI", and is intended to replace it in the Standards Track. [STANDARDS-TRACK]











2047      Moore            Nov 96      MIME (Multipurpose Internet Mail  
Extensions) Part Three: Message Header  
Extensions for Non-ASCII Text

This particular document is the third document in the series. It describes extensions to RFC 822 to allow non-US-ASCII text data in Internet mail header fields. [STANDARDS-TRACK]

2046      Freed            Nov 96      Multipurpose Internet Mail Extensions  
(MIME) Part Two: Media Types

This second document defines the general structure of the MIME media typing system and defines an initial set of media types. [STANDARDS-TRACK]

2045      Freed            Nov 96      Multipurpose Internet Mail Extensions  
(MIME) Part One: Format of Internet  
Message Bodies

This initial document specifies the various headers used to describe the structure of MIME messages. [STANDARDS-TRACK]

2044      Yergeau           Oct 96      UTF-8, a transformation format of  
Unicode and ISO 10646

The Unicode Standard, version 1.1, and ISO/IEC 10646-1:1993 jointly define a 16 bit character set which encompasses most of the world's writing systems. UTF-8, the object of this memo, has the characteristic of preserving the full US-ASCII range. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2043      Fuqua              Oct 96      The PPP SNA Control Protocol (SNACP)

This document defines the Network Control Protocols for establishing and configuring Systems Network Architecture (SNA) over PPP and SNA over LLC 802.2 over PPP. [STANDARDS-TRACK]

2042     Manning        Jan 97     Registering New BGP Attribute Types

This document describes the process for creating new BGP attribute type codes. Basic attribute type codes are described in RFC 1771, pages 12 through 15. These, and new attribute type codes that are used in the Internet are registered with the IANA. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2041     Noble            Oct 96     Mobile Network Tracing

This RFC argues that mobile network tracing provides both tools to improve our understanding of wireless channels, as well as to build realistic, repeatable testbeds for mobile software and systems. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2040     Baldwin         Oct 96     The RC5, RC5-CBC, RC5-CBC-Pad, and  
   RC5-CTS Algorithms

This document defines four ciphers with enough detail to ensure interoperability between different implementations. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2039     Kalbfleisch    Nov 96     Applicablity of Standards Track MIBs to  
   Management of World Wide Web Servers

This document was produced at the request of the Network Management Area Director following the HTTP-MIB BOF at the 35th IETF meeting to report on the applicability of the existing standards track MIBs to management of WWW servers. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2038     Hoffman         Oct 96     RTP Payload Format for MPEG1/MPEG2 Video

This memo describes a packetization scheme for MPEG video and audio streams. The scheme proposed can be used to transport such a video or audio flow over the transport protocols supported by RTP. [STANDARDS-TRACK]

2037	McCloghrie	Oct 96	Entity MIB using SMIV2
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This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it describes managed objects used for managing multiple logical and physical entities managed by a single SNMP agent.

[STANDARDS-TRACK]

2036	Huston	Oct 96	Observations on the use of Components of the Class A Address Space within the Internet
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This document is a commentary on the recommendation that IANA commence allocation of the presently unallocated components of the Class A address space to registries, for deployment within the Internet as class-less address blocks. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2035	Berc	Oct 96	RTP Payload Format for JPEG-compressed Video
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This memo describes the RTP payload format for JPEG video streams. The packet format is optimized for real-time video streams where codec parameters change rarely from frame to frame. [STANDARDS-TRACK]

2034	Freed	Oct 96	SMTP Service Extension for Returning Enhanced Error Codes
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This memo defines an extension to the SMTP service [RFC-821, RFC-1869] whereby an SMTP server augments its responses with the enhanced mail system status codes defined in RFC 1893. [STANDARDS-TRACK]

2033	Myers	Oct 96	Local Mail Transfer Protocol
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SMTP [SMTP] [HOST-REQ] and its service extensions [ESMTP] provide a mechanism for transferring mail reliably and efficiently. The design of the SMTP protocol effectively requires the server to manage a mail delivery queue. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2032      Turletti      Oct 96      RTP Payload Format for H.261 Video  
Streams

This memo describes a scheme to packetize an H.261 video stream for transport using the Real-time Transport Protocol, RTP, with any of the underlying protocols that carry RTP. [STANDARDS-TRACK]

2031      Huizer      Oct 96      IETF-ISOC relationship

This memo summarises the issues on IETF - ISOC relationships as they have been discussed by the Poised Working Group. The purpose of the document is to gauge consensus on these issues. And to allow further discussions where necessary. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2030      Mills      Oct 96      Simple Network Time Protocol (SNTP)  
Version 4 for IPv4, IPv6 and OSI

This memorandum describes the Simple Network Time Protocol (SNTP) Version 4, which is an adaptation of the Network Time Protocol (NTP) used to synchronize computer clocks in the Internet. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2029      Speer      Oct 96      RTP Payload Format of Sun's CellB Video  
Encoding

This memo describes a packetization scheme for the CellB video encoding. The scheme proposed allows applications to transport CellB video flows over protocols used by RTP. This document is meant for implementors of video applications that want to use RTP and CellB. [STANDARDS-TRACK]

2028      Hovey      Oct 96      The Organizations Involved in the IETF  
Standards Process

This document describes the individuals and organizations involved in the IETF. This includes descriptions of the IESG, the IETF Working Groups and the relationship between the IETF and the Internet Society. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2027      Galvin          Oct 96      IAB and IESG Selection, Confirmation, and  
Recall Process: Operation of the  
Nominating and Recall Committees

The process by which the members of the IAB and IESG are selected, confirmed, and recalled has been exercised four times since its formal creation. The evolution of the process has relied principally on oral tradition as a means by which the lessons learned could be passed on to successive committees. This document is a self-consistent, organized compilation of the process as it is known today. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2026      Bradner          Oct 96      The Internet Standards Process --  
Revision 3

This memo documents the process used by the Internet community for the standardization of protocols and procedures. It defines the stages in the standardization process, the requirements for moving a document between stages and the types of documents used during this process. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2025      Adams              Oct 96      The Simple Public-Key GSS-API Mechanism  
(SPKM)

This specification defines protocols, procedures, and conventions to be employed by peers implementing the Generic Security Service Application Program Interface (as specified in RFCs 1508 and 1509) when using the Simple Public-Key Mechanism. [STANDARDS-TRACK]

2024      Chen                Oct 96      Definitions of Managed Objects for Data  
Link Switching using SMIV2

This specification defines an extension to the Management Information Base (MIB) for use with SNMP-based network management. In particular, it defines objects for configuring, monitoring, and controlling Data Link Switches (DLSw). [STANDARDS-TRACK]



2023     Haskin            Oct 96     IP Version 6 over PPP

This document defines the method for transmission of IP Version 6 [2] packets over PPP links as well as the Network Control Protocol (NCP) for establishing and configuring the IPv6 over PPP. [STANDARDS-TRACK]

2022     Armitage        Nov 96     Support for Multicast over UNI 3.0/3.1  
                             based ATM Networks.

This memo describes a mechanism to support the multicast needs of Layer 3 protocols in general, and describes its application to IP multicasting in particular. [STANDARDS-TRACK]

2021     Waldbusser     Jan 97     Remote Network Monitoring Management  
                             Information Base Version 2 using SMIPv2

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in TCP/IP-based internets. In particular, it defines objects for managing remote network monitoring devices. [STANDARDS-TRACK]

2020     Flick            Oct 96     Definitions of Managed Objects for IEEE  
                             802.12 Interfaces

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in TCP/IP-based internets. In particular, it defines objects for managing network interfaces based on IEEE 802.12. [STANDARDS-TRACK]

2019     Crawford        Oct 96     A Method for the Transmission of IPv6  
                             Packets over FDDI Networks

This memo specifies the MTU and frame format for transmission of IPv6 [IPV6] packets on FDDI networks, including a method for MTU determination in the presence of 802.1d bridges to other media. [STANDARDS-TRACK]

2018     Mathis            Oct 96     TCP Selective Acknowledgment Options

This memo proposes an implementation of SACK and discusses its performance and related issues. [STANDARDS-TRACK]

2017      Freed              Oct 96      Definition of the URL  
   MIME External-Body Access-Type

This memo defines a new access-type for message/external-body MIME parts for Uniform Resource Locators (URLs). [STANDARDS-TRACK]

2016      Daigle              Oct 96      Uniform Resource Agents (URAs)

This paper presents an experimental architecture for an agent system that provides sophisticated Internet information access and management. This memo defines an Experimental Protocol for the Internet community.

2015      Elkins              Oct 96      MIME Security with Pretty Good Privacy  
   (PGP)

This document describes how Pretty Good Privacy (PGP) can be used to provide privacy and authentication using the Multipurpose Internet Mail Extensions (MIME) security content types described in RFC1847. [STANDARDS-TRACK]

2014      Weinrib              Oct 96      IRTF Research Group Guidelines and  
   Procedures

This document describes the guidelines and procedures for formation and operation of IRTF Research Groups. It describes the relationship between IRTF participants, Research Groups, the Internet Research Steering Group (IRSG) and the Internet Architecture Board (IAB). This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2013      McCloghrie      Nov 96      SNMPv2 Management Information Base for  
   the User Datagram Protocol using SMIPv2

This document is the MIB module which defines managed objects for managing implementations of the User Datagram Protocol (UDP). [STANDARDS-TRACK]

2012      McCloghrie      Nov 96      SNMPv2 Management Information Base for  
the Transmission Control Protocol using  
SMIv2

This document is the MIB module which defines managed objects for  
managing implementations of the Transmission Control Protocol (TCP).  
[STANDARDS-TRACK]

2011      McCloghrie      Nov 96      SNMPv2 Management Information Base  
for the Internet Protocol using SMIv2

This document is the MIB module which defines managed objects for  
managing implementations of the Internet Protocol (IP) and its  
associated Internet Control Message Protocol (ICMP). [STANDARDS-TRACK]

2010      Manning              Oct 96      Operational Criteria for Root Name  
Servers

This document specifies the operational requirements of root name  
servers, including host hardware capacities, name server software  
revisions, network connectivity, and physical environment. This memo  
provides information for the Internet community. This memo does not  
specify an Internet standard of any kind.

2009      Imielinski      Nov 96      GPS-Based Addressing and Routing

This document describes a possible experiment with geographic addresses.  
It uses several specific IP addresses and domain names in the discussion  
as concrete examples to aid in understanding the concepts. This memo  
defines an Experimental Protocol for the Internet community.

2008      Rekhter              Oct 96      Implications of Various Address  
Allocation Policies for Internet Routing

The purpose of this document is to articulate certain relevant  
fundamental technical issues that must be considered in formulating  
unicast address allocation and management policies for the Public  
Internet, and to provide recommendations with respect to these policies.  
This document specifies an Internet Best Current Practices for the  
Internet Community, and requests discussion and suggestions for  
improvements.

2007 Foster Oct 96 Catalogue of Network Training Materials

The purpose of this document is to provide a catalogue of quality Network Training Materials for use by Internet trainers in training their users. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

2006 Cong Oct 96 The Definitions of Managed Objects for  
IP Mobility Support using SMIPv2

This memo defines the Management Information Base (MIB) for use with network management protocols in TCP/IP-based internets. In particular, it describes managed objects used for managing the Mobile Node, Foreign Agent and Home Agent of the Mobile IP Protocol. [STANDARDS-TRACK]

2005 Solomon Oct 96 Applicability Statement for IP Mobility  
Support

As required by [RFC 1264], this report discusses the applicability of Mobile IP to provide host mobility in the Internet. In particular, this document describes the key features of Mobile IP and shows how the requirements for advancement to Proposed Standard RFC have been satisfied. [STANDARDS-TRACK]

2004 Perkins Oct 96 Minimal Encapsulation within IP

This document specifies a method by which an IP datagram may be encapsulated (carried as payload) within an IP datagram, with less overhead than "conventional" IP encapsulation that adds a second IP header to each encapsulated datagram. [STANDARDS-TRACK]

2003 Perkins Oct 96 IP Encapsulation within IP

This document specifies a method by which an IP datagram may be encapsulated (carried as payload) within an IP datagram. [STANDARDS-TRACK]

2002 Perkins Oct 96 IP Mobility Support

This document specifies protocol enhancements that allow transparent routing of IP datagrams to mobile nodes in the Internet. [STANDARDS-TRACK]

2001 Stevens Jan 97 TCP Slow Start, Congestion Avoidance,  
Fast Retransmit, and Fast Recovery  
Algorithms

Modern implementations of TCP contain four intertwined algorithms that have never been fully documented as Internet standards: slow start, congestion avoidance, fast retransmit, and fast recovery. [STANDARDS-TRACK]

2000 I.A.B. Feb 97 INTERNET OFFICIAL PROTOCOL STANDARDS

This memo describes the state of standardization of protocols used in the Internet as determined by the Internet Architecture Board (IAB). This memo is an Internet Standard.

#### Security Considerations

Security issues are not discussed in this memo.

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