

Request for Comments Summary

RFC Numbers 2400-2499

Status of This Memo

This RFC is a slightly annotated list of the 100 RFCs from RFC 2400 through RFCs 2499. 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.

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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 -----
2499	Ramos	July 1999	Request for Comments Summary

This memo.

2498	Mahdavi	Jan 1999	IPPM Metrics for Measuring Connectivity
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This memo defines a series of metrics for connectivity between a pair of Internet hosts. It builds on notions introduced and discussed in RFC 2330, the IPPM framework document. This memo defines an Experimental Protocol for the Internet community.

2493 Tesink Jan 1999 Textual Conventions for MIB
Modules Using Performance
History Based on 15 Minute
Intervals

This document defines a set of Textual Conventions for MIB modules which make use of performance history data based on 15 minute intervals.
[STANDARDS-TRACK]

2492 Armitage Jan 1999 IPv6 over ATM Networks

This document is a companion to the ION working group's architecture document, "IPv6 over Non Broadcast Multiple Access (NBMA) networks". It provides specific details on how to apply the IPv6 over NBMA architecture to ATM networks. This architecture allows conventional host-side operation of the IPv6 Neighbor Discovery protocol, while also supporting the establishment of 'shortcut' ATM forwarding paths (when using SVCs). Operation over administratively configured Point to Point PVCs is also supported. [STANDARDS-TRACK]

2491 Armitage Jan 1999 IPv6 over Non-Broadcast
Multiple Access (NBMA) networks

This document describes a general architecture for IPv6 over NBMA networks. [STANDARDS-TRACK]

2490 Pullen Jan 1999 A Simulation Model for IP
Multicast with RSVP

This document describes a detailed model of IPv4 multicast with RSVP that has been developed using the OPNET simulation package, with protocol procedures defined in the C language. This memo provides information for the Internet community.

2489 Droms Jan 1999 Procedure for Defining New
DHCP Options

This document describes the procedure for defining new DHCP options. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2488 Allman Jan 1999 Enhancing TCP Over Satellite Channels using Standard Mechanisms

The Transmission Control Protocol (TCP) provides reliable delivery of data across any network path, including network paths containing satellite channels. While TCP works over satellite channels there are several IETF standardized mechanisms that enable TCP to more effectively utilize the available capacity of the network path. This document outlines some of these TCP mitigations. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2487 Hoffman Jan 1999 SMTP Service Extension for Secure SMTP over TLS

This document describes an extension to the SMTP service that allows an SMTP server and client to use transport-layer security to provide private, authenticated communication over the Internet. This gives SMTP agents the ability to protect some or all of their communications from eavesdroppers and attackers. [STANDARDS-TRACK]

2486 Aboba Jan 1999 The Network Access Identifier

This document proposes syntax for the Network Access Identifier (NAI), the userID submitted by the client during PPP authentication. [STANDARDS-TRACK]

2485 Drach Jan 1999 DHCP Option for The Open Group's User Authentication Protocol

This document defines a DHCP option that contains a list of pointers to User Authentication Protocol servers that provide user authentication services for clients that conform to The Open Group Network Computing Client Technical Standard. [STANDARDS-TRACK]

2479 Adams Dec 1998 Independent Data Unit
Protection Generic Security Service
Application Program Interface
(IDUP-GSS-API)

The IDUP-GSS-API extends the GSS-API for applications requiring protection of a generic data unit (such as a file or message) in a way which is independent of the protection of any other data unit and independent of any concurrent contact with designated "receivers" of the data unit. This memo provides information for the Internet community.

2478 Baize Dec 1998 The Simple and Protected
GSS-API Negotiation Mechanism

This document specifies a Security Negotiation Mechanism for the Generic Security Service Application Program Interface (GSS-API). [STANDARDS-TRACK]

2477 Aboba Jan 1999 Criteria for Evaluating
Roaming Protocols

This document describes requirements for the provisioning of "roaming capability" for dialup Internet users. "Roaming capability" is defined as the ability to use multiple Internet service providers (ISPs), while maintaining a formal, customer-vendor relationship with only one. This memo provides information for the Internet community.

2476 Gellens Dec 1998 Message Submission

This memo describes a low cost, deterministic means for messages to be identified as submissions, and specifies what actions are to be taken by a submission server. [STANDARDS-TRACK]

2475 Blake Dec 1998 An Architecture for
Differentiated Services

This document defines an architecture for implementing scalable service differentiation in the Internet. This memo provides information for the Internet community.

2474 Nichols Dec 1998 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers

This document defines the IP header field, called the DS (for differentiated services) field. [STANDARDS-TRACK]

2473 Conta Dec 1998 Generic Packet Tunneling in IPv6 Specification

This document defines the model and generic mechanisms for IPv6 encapsulation of Internet packets, such as IPv6 and IPv4. [STANDARDS-TRACK]

2472 Haskin Dec 1998 IP Version 6 over PPP

This document defines the method for transmission of IP Version 6 packets over PPP links as well as the Network Control Protocol (NCP) for establishing and configuring the IPv6 over PPP. It also specifies the method of forming IPv6 link-local addresses on PPP links. [STANDARDS-TRACK]

2471 Hinden Dec 1998 IPv6 Testing Address Allocation

This document describes an allocation plan for IPv6 addresses to be used in testing IPv6 prototype software. This memo defines an Experimental Protocol for the Internet community.

2470 Crawford Dec 1998 Transmission of IPv6 Packets over Token Ring Networks

This memo specifies the MTU and frame format for transmission of IPv6 packets on Token Ring networks. [STANDARDS-TRACK]

2469 Narten Dec 1998 A Caution On The Canonical
Ordering Of Link-Layer Addresses

Protocols such as ARP and Neighbor Discovery have data fields that contain link-layer addresses. In order to interoperate properly, a sender setting such a field must insure that the receiver extracts those bits and interprets them correctly. In most cases, such fields must be in "canonical form". Unfortunately, not all LAN adaptors are consistent in their use of canonical form, and implementations may need to explicitly bit swap individual bytes in order to obtain the correct format. This document provides information to implementors to help them avoid the pitfall of using non-canonical forms when canonical forms are required. This memo provides information for the Internet community.

2468 Cerf Oct 1998 I REMEMBER IANA

A long time ago, in a network, far far away, a great adventure took place!. This memo provides information for the Internet community.

2467 Crawford Dec 1998 Transmission of IPv6 Packets
over FDDI Networks

This document specifies the frame format for transmission of IPv6 packets and the method of forming IPv6 link-local addresses and statelessly autoconfigured addresses on FDDI networks. [STANDARDS-TRACK]

2466 Haskin Dec 1998 Management Information Base
for IP Version 6: ICMPv6 Group

This document is one in the series of documents that define various MIB object groups for IPv6. Specifically, the ICMPv6 group is defined in this document. [STANDARDS-TRACK]

2465 Haskin Dec 1998 Management Information Base
for IP Version 6: Textual
Conventions and General Group

This document is one in the series of documents that provide MIB definitions for for IP Version 6. Specifically, the IPv6 MIB textual conventions as well as the IPv6 MIB General group is defined in this document. [STANDARDS-TRACK]

2459 Housley Jan 1999 Internet X.509 Public Key
Infrastructure Certificate and
CRL Profile

This memo profiles the X.509 v3 certificate and X.509 v2 CRL for use in the Internet. [STANDARDS-TRACK]

2458 Lu Nov 1998 Toward the PSTN/Internet
Inter-Networking --Pre-PINT
Implementations

This document contains the information relevant to the development of the inter-networking interfaces underway in the Public Switched Telephone Network (PSTN)/Internet Inter-Networking (PINT) Working Group. This memo provides information for the Internet community.

2457 Clouston Nov 1998 Definitions of Managed Objects
for Extended Border Node

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it defines objects for monitoring and controlling network devices with APPN (Advanced Peer-to-Peer Network) EBN (Extended Border Node) capabilities. This memo identifies managed objects for the EBN architecture. [STANDARDS-TRACK]

2456 Clouston Nov 1998 Definitions of Managed Objects
for APPN TRAPS

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it defines objects for receiving notifications from network devices with APPN (Advanced Peer-to-Peer Network) and DLUR (Dependent LU Requester) capabilities. This memo identifies notifications for the APPN and DLUR architecture. [STANDARDS-TRACK]

2455 Clouston Nov 1998 Definitions of Managed Objects
for APPN

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. In particular, it defines objects for monitoring and controlling network devices with APPN (Advanced Peer-to-Peer Networking) capabilities. This memo identifies managed objects for the APPN protocol. [STANDARDS-TRACK]

2454 Daniele Dec 1998 IP Version 6 Management
Information Base for the User
Datagram Protocol

This document is one in the series of documents that define various MIB objects for IPv6. Specifically, this document is the MIB module which defines managed objects for implementations of the User Datagram Protocol (UDP) over IP Version 6 (IPv6). [STANDARDS-TRACK]

2453 Malkin Nov 1998 RIP Version 2

This document specifies an extension of the Routing Information Protocol (RIP) to expand the amount of useful information carried in RIP messages and to add a measure of security. [STANDARDS-TRACK]

2452 Daniele Dec 1998 IP Version 6 Management
Information Base for the
Transmission Control Protocol

This document is one in the series of documents that define various MIB objects for IPv6. Specifically, this document is the MIB module which defines managed objects for implementations of the Transmission Control Protocol (TCP) over IP Version 6 (IPv6). [STANDARDS-TRACK]

2451 Pereira Nov 1998 The ESP CBC-Mode Cipher
Algorithms

This document describes how to use CBC-mode cipher algorithms with the IPsec ESP (Encapsulating Security Payload) Protocol. It not only clearly states how to use certain cipher algorithms, but also how to use all CBC-mode cipher algorithms. [STANDARDS-TRACK]

2450 Hinden Dec 1998 Proposed TLA and NLA
Assignment Rules

This document proposes rules for Top-Level Aggregation Identifiers (TLA ID) and Next-Level Aggregation Identifiers (NLA ID). This memo provides information for the Internet community.

2449 Gellens Nov 1998 POP3 Extension Mechanism

This memo updates RFC 1939 to define a mechanism to announce support for optional commands, extensions, and unconditional server behavior. [STANDARDS-TRACK]

2448 Civanlar Nov 1998 AT&T's Error Resilient Video
Transmission Technique

This document describes a set of techniques for packet loss resilient transmission of compressed video bitstreams based on reliable delivery of their vital information-carrying segments. This memo provides information for the Internet community.

2447 Dawson Nov 1998 iCalendar Message-Based
Interoperability Protocol (iMIP)

This document specifies a binding from the iCalendar Transport-independent Interoperability Protocol (iTIP) to Internet email-based transports. [STANDARDS-TRACK]

2446 Silverberg Nov 1998 iCalendar Transport-Independent
Interoperability Protocol (iTIP)
Scheduling Events, BusyTime,
To-dos and Journal Entries

This document specifies how calendaring systems use iCalendar objects to interoperate with other calendar systems. It does so in a general way so as to allow multiple methods of communication between systems. [STANDARDS-TRACK]

2445 Dawson Nov 1998 Internet Calendaring and Scheduling Core Object Specification (iCalendar)

This memo has been defined to provide the definition of a common format for openly exchanging calendaring and scheduling information across the Internet. [STANDARDS-TRACK]

2444 Newman Oct 1998 The One-Time-Password SASL Mechanism

OTP provides a useful authentication mechanism for situations where there is limited client or server trust. Currently, OTP is added to protocols in an ad-hoc fashion with heuristic parsing. This specification defines an OTP SASL mechanism so it can be easily and formally integrated into many application protocols. [STANDARDS-TRACK]

2443 Luciani Nov 1998 A Distributed MARS Service Using SCSP

This document describes a method for distributing a MARS service within a LIS. This method uses the Server Cache Synchronization Protocol (SCSP) to synchronize the MARS Server databases within a LIS. When SCSP is used to synchronize the caches of MARS Servers in a LIS, the LIS defines the boundary of an SCSP Server Group (SG). [STANDARDS-TRACK]

2442 Freed Nov 1998 The Batch SMTP Media Type

This document defines a MIME content type suitable for tunneling an ESMTP transaction through any MIME-capable transport. This memo provides information for the Internet community

2441 Cohen Nov 1998 Working with Jon Tribute delivered at UCLA, October 30, 1998

This memo provides information for the Internet community.

2440 Callas Nov 1998 OpenPGP Message Format

This document is maintained in order to publish all necessary information needed to develop interoperable applications based on the OpenPGP format. [STANDARDS-TRACK]

2439 Villamizar Nov 1998 BGP Route Flap Damping

A usage of the BGP routing protocol is described which is capable of reducing the routing traffic passed on to routing peers and therefore the load on these peers without adversely affecting route convergence time for relatively stable routes. [STANDARDS-TRACK]

2438 O'Dell Oct 1998 Advancement of MIB specifications on the IETF Standards Track

This document specifies the process which the IESG will use to determine if a MIB specification document meets these requirements. It also discusses the rationale for this process. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2437 Kaliski Oct 1998 PKCS #1: RSA Cryptography Specifications Version 2.0

This memo is the successor to RFC 2313. This document provides recommendations for the implementation of public-key cryptography based on the RSA algorithm. This memo provides information for the Internet community.

2436 Brett Oct 1998 Collaboration between ISOC/IETF and ITU-T

This document describes the collaboration process between the ITU-T and ISOC/IETF. This memo provides information for the Internet community.

2435 Berc Oct 1998 RTP Payload Format for JPEG-compressed Video

This memo describes the RTP payload format for JPEG video streams. [STANDARDS-TRACK]

2434 Narten Oct 1998 Guidelines for Writing an IANA Considerations Section in RFCs

This document discusses issues that should be considered in formulating a policy for assigning values to a name space and provides guidelines to document authors on the specific text that must be included in documents that place demands on the IANA. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2433 Zorn Oct 1998 Microsoft PPP CHAP Extensions

The Point-to-Point Protocol (PPP) provides a standard method for transporting multi-protocol datagrams over point-to-point links. PPP defines an extensible Link Control Protocol and a family of Network Control Protocols (NCPs) for establishing and configuring different network-layer protocols. This memo provides information for the Internet community.

2432 Dubray Oct 1998 Terminology for IP Multicast Benchmarking

The purpose of this document is to define terminology specific to the benchmarking of multicast IP forwarding devices. This memo provides information for the Internet community.

2431 Tynan Oct 1998 RTP Payload Format for BT.656 Video Encoding

This document specifies the RTP payload format for encapsulating ITU Recommendation BT.656-3 video streams in the Real-Time Transport Protocol (RTP). [STANDARDS-TRACK]

2430 Li Oct 1998 A Provider Architecture for Differentiated Services and Traffic Engineering (PASTE)

This document describes the Provider Architecture for Differentiated Services and Traffic Engineering (PASTE) for Internet Service Providers (ISPs). This memo provides information for the Internet community.

2429 Bormann Oct 1998 RTP Payload Format for the
1998 Version of ITU-T
Rec. H.263 Video (H.263+)

This document specifies an RTP payload header format applicable to the transmission of video streams generated based on the 1998 version of ITU-T Recommendation H.263. [STANDARDS-TRACK]

2428 Allman Sep 1998 FTP Extensions for IPv6 and NATs

This paper specifies extensions to FTP that will allow the protocol to work over IPv4 and IPv6. [STANDARDS-TRACK]

2427 Brown Sep 1998 Multiprotocol Interconnect
over Frame Relay

This memo describes an encapsulation method for carrying network interconnect traffic over a Frame Relay backbone. It covers aspects of both Bridging and Routing. [STANDARDS-TRACK]

2426 Dawson Sep 1998 vCard MIME Directory Profile

This memo defines the profile of the MIME Content-Type for directory information for a white-pages person object, based on a vCard electronic business card. [STANDARDS-TRACK]

2425 Howes Sep 1998 A MIME Content-Type for
Directory Information

This document defines a MIME Content-Type for holding directory information. [STANDARDS-TRACK]

2424 Vaudreuil Sep 1998 Content Duration MIME Header
Definition

This document describes the MIME header Content-Duration that is intended for use with any timed media content (typically audio/* or video/*). [STANDARDS-TRACK]

2423 Vaudreuil Sep 1998 VPIM Voice Message MIME
Sub-type Registration

This document describes the registration of the MIME sub-type multipart/voice-message for use with the Voice Profile for Internet Mail (VPIM). [STANDARDS-TRACK]

2422 Vaudreuil Sep 1998 Toll Quality Voice - 32 kbit/s
ADPCM MIME Sub-type Registration

This document describes the registration of the MIME sub-type audio/32KADPCM for toll quality audio. [STANDARDS-TRACK]

2421 Vaudreuil Sep 1998 Voice Profile for Internet
Mail - version 2

This document profiles Internet mail for voice messaging. [STANDARDS-TRACK]

2420 Kummert Sep 1998 The PPP Triple-DES Encryption
Protocol (3DESE)

This document provides specific details for the use of the Triple-DES standard (3DES) for encrypting PPP encapsulated packets. [STANDARDS-TRACK]

2419 Sklower Sep 1998 The PPP DES Encryption
Protocol, Version 2 (DESE-bis)

This document provides specific details for the use of the DES standard for encrypting PPP encapsulated packets. [STANDARDS-TRACK]

2418 Bradner Sep 1998 IETF Working Group
Guidelines and Procedures

This document describes the guidelines and procedures for formation and operation of IETF working groups. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2417 Chung Sep 1998 Definitions of Managed Objects for Multicast over UNI 3.0/3.1 based ATM Networks

This memo specifies a MIB module in a manner that is both compliant to the SNMPv2 SMI, and semantically identical to the peer SNMPv1 definitions. [STANDARDS-TRACK]

2416 Shepard Sep 1998 When TCP Starts Up With Four Packets Into Only Three Buffers

This memo is to document a simple experiment. The experiment showed that in the case of a TCP receiver behind a 9600 bps modem link at the edge of a fast Internet where there are only 3 buffers before the modem (and the fourth packet of a four-packet start will surely be dropped), no significant degradation in performance is experienced by a TCP sending with a four-packet start when compared with a normal slow start (which starts with just one packet). This memo provides information for the Internet community.

2415 Poduri Sep 1998 Simulation Studies of Increased Initial TCP Window Size

This document covers some simulation studies of the effects of increasing the initial window size of TCP. This memo provides information for the Internet community.

2414 Allman Sep 1998 Increasing TCP's Initial Window

This document specifies an increase in the permitted initial window for TCP from one segment to roughly 4K bytes. This memo defines an Experimental Protocol for the Internet community.

2413 Weibel Sep 1998 Dublin Core Metadata for Resource Discovery

This is the first of a set of Informational RFCs describing the Dublin Core. Its purpose is to introduce the Dublin Core and to describe the consensus reached on the semantics of each of the 15 elements. This memo provides information for the Internet community.

2412 Orman Nov 1998 The OAKLEY Key Determination Protocol

This document describes a protocol, named OAKLEY, by which two authenticated parties can agree on secure and secret keying material. The basic mechanism is the Diffie-Hellman key exchange algorithm. This memo provides information for the Internet community.

2411 Thayer Nov 1998 IP Security Document Roadmap

This document is intended to provide guidelines for the development of collateral specifications describing the use of new encryption and authentication algorithms with the ESP protocol, described in and new authentication algorithms used with the AH protocol. This memo provides information for the Internet community.

2410 Glenn Nov 1998 The NULL Encryption Algorithm and Its Use With IPsec

This memo defines the NULL encryption algorithm and its use with the IPsec Encapsulating Security Payload (ESP). [STANDARDS-TRACK]

2409 Harkins Nov 1998 The Internet Key Exchange (IKE)

This memo describes a hybrid protocol. The purpose is to negotiate, and provide authenticated keying material for, security associations in a protected manner. [STANDARDS-TRACK]

2408 Maughan Nov 1998 Internet Security Association and Key Management Protocol (ISAKMP)

This memo describes a protocol utilizing security concepts necessary for establishing Security Associations (SA) and cryptographic keys in an Internet environment. [STANDARDS-TRACK]

2407 Piper Nov 1998 The Internet IP Security Domain of Interpretation for ISAKMP

This document defines the Internet IP Security DOI (IPSEC DOI), which instantiates ISAKMP for use with IP when IP uses ISAKMP to negotiate security associations. [STANDARDS-TRACK]

2401 Kent Nov 1998 Security Architecture for the
Internet Protocol

This memo specifies the base architecture for IPsec compliant systems.
[STANDARDS-TRACK]

2400 IAB Sep 1998 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. [STANDARDS-TRACK]

Security Considerations

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

Author's Address

Alegre Ramos
University of Southern California
Information Sciences Institute
4676 Admiralty Way
Marina del Rey, CA 90292

Phone: (310) 822-1511

EMail: ramos@isi.edu

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