

Request for Comments Summary

RFC Numbers 1400-1499

Status of This Memo

This RFC is a slightly annotated list of the 100 RFCs from RFC 1400 through RFCs 1499. 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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1499	Elliott	Jan 97	Requests For Comments Summary

This memo.

1498	Saltzer	Aug 93	On the Naming and Binding of Network Destinations
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This brief paper offers a perspective on the subject of names of destinations in data communication networks. It suggests two ideas: First, it is helpful to distinguish among four different kinds of objects that may be named as the destination of a packet in a network. Second, the operating system concept of binding is a useful way to describe the relations among the four kinds of objects. This memo provides information for the Internet community. It does not specify an Internet standard.

1497 Reynolds Aug 93 BOOTP Vendor Information Extensions

This RFC is a slight revision and extension of RFC-1048 by Philip Prindeville, who should be credited with the original work in this memo. This memo is a status report on the vendor information extensions used in the Bootstrap Protocol (BOOTP).

1496 Alverstrand Aug 93 Rules for Downgrading Messages from X.400/88 to X.400/84 When MIME Content-Types are Present in the Messages

This document describes how RFC-1328 must be modified in order to provide adequate support for the scenarios:

SMTP(MIME) -> X.400(84)  
X.400(84) -> SMTP(MIME)

It replaces chapter 6 of RFC-1328. The rest of RFC-1328 is NOT obsoleted. [STANDARDS-TRACK]

1495 Alverstrand Aug 93 Mapping between X.400 and RFC-822 Message Bodies

Since the introduction of X.400(84), there has been work ongoing for defining mappings between MHS and RFC-822. The most recent work in this area is RFC-1327 [3], which focuses primarily on translation of envelope and headers. This document is complimentary to RFC-1327 as it focuses on translation of the message body. [STANDARDS-TRACK]

1494 Alverstrand Aug 93 Equivalences between 1988 X.400 and RFC-822 Message Bodies

This document describes the content of the "IANA MHS/MIME Equivalence table", and defines the initial configuration of this table. Mappings for new MIME content-types and/or X.400 body part types should be registered with the IANA to minimize redundancy and promote interoperability. [STANDARDS-TRACK]

1493 Decker Jul 93 Definitions of Managed Objects  
for Bridges

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 MAC bridges based on the IEEE 802.1D-1990 standard between Local Area Network (LAN) segments.  
[STANDARDS-TRACK]

1492 Finseth Jul 93 An Access Control Protocol, Sometimes  
Called TACACS

This RFC documents the extended TACACS protocol use by the Cisco Systems terminal servers. This same protocol is used by the University of Minnesota's distributed authentication system. This memo provides information for the Internet community. It does not specify an Internet standard.

1491 Weider Jul 93 A Survey of Advanced Usages of X.500

This document is the result of a survey asking people to detail their advanced usages of X.500. It is intended to show how various organizations are using X.500 in ways which extend the view of X.500 as a "White Pages" service. This RFC is a product of the Integrated Directory Services Working Group of the Application and User Services Areas of the IETF. This memo provides information for the Internet community. It does not specify an Internet standard.

1490 Bradley Jul 93 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. Additionally, it describes a simple fragmentation procedure for carrying large frames over a frame relay network with a smaller MTU. [STANDARDS-TRACK]

1489 Chernov Jul 93 Registration of a Cyrillic Character Set

Though the proposed character set "koi8-r" is not currently an international standard, there is very large user community (including Relcom Net) supporting it. Factually, "koi8-r" is de-facto standard for Unix and global network applications in the former Soviet Union. This is the reason the Society of Unix User Groups (SUUG) believes "koi8-r" should be registered. This memo provides information for the Internet community. It does not specify an Internet standard.

1488 Howes Jul 93 The X.500 String Representation of  
Standard Attribute Syntaxes

This document defines the requirements that must be satisfied by encoding rules used to render Directory attribute syntaxes into a form suitable for use in the LDAP, then goes on to define the encoding rules for the standard set of attribute syntaxes defined in [1,2] and [3].  
[STANDARDS-TRACK]

1487 Yeong Jul 93 X.500 Lightweight Directory Access  
Protocol

The protocol described in this document is designed to provide access to the Directory while not incurring the resource requirements of the Directory Access Protocol (DAP). [STANDARDS-TRACK]

1486 Rose Jul 93 An Experiment in Remote Printing

This memo describes a technique for "remote printing" using the Internet mail infrastructure. In particular, this memo focuses on the case in which remote printers are connected to the international telephone network. This memo defines an Experimental Protocol for the Internet community. It does not specify an Internet standard.

1485 Kille Jul 93 A String Representation of Distinguished  
Names (OSI-DS 23 (v5))

When a distinguished name is communicated between to users not using a directory protocol (e.g., in a mail message), there is a need to have a user-oriented string representation of distinguished name. [STANDARDS-TRACK]

1484 Kille Jul 93 Using the OSI Directory to achieve  
User Friendly Naming (OSI-DS 24 (v1.2))

This proposal sets out some conventions for representing names in a friendly manner, and shows how this can be used to achieve really friendly naming. This memo defines an Experimental Protocol for the Internet community. It does not specify an Internet standard.

1483 Heinanen Jul 93 Multiprotocol Encapsulation over ATM  
Adaptation Layer 5

This memo describes two encapsulations methods for carrying network interconnect traffic over ATM AAL5. [STANDARDS-TRACK]

1482 Knopper Jun 93 Aggregation Support in the NSFNET  
Policy-Based Routing Database

This document describes plans for support of route aggregation, as specified in the descriptions of Classless Inter-Domain Routing (CIDR) [1] and the BGP-4 protocol [2], by the NSFNET Backbone Network Service. This memo provides information for the Internet community. It does not specify an Internet standard.

1481 Huitema Jul 93 IAB Recommendation for an Intermediate  
Strategy to Address the Issue of Scaling

CIDR is proposed as an immediate term strategy to extend the life of the current 32 bit IP address space. This memo provides information for the Internet community. It does not specify an Internet standard.

1480 Cooper Jun 93 The US Domain

This is a description of the US Top Level Domains on the Internet. This memo provides information for the Internet community. It does not specify an Internet standard.

1479 Steenstrup Jul 93 Inter-Domain Policy Routing Protocol  
Specification: Version 1

We present the set of protocols and procedures that constitute Inter-Domain Policy Routing (IDPR). [STANDARDS-TRACK]





1469 Pusateri Jun 93 IP Multicast over Token-Ring Local Area Networks

This document specifies a method for the transmission of IP multicast datagrams over Token-Ring Local Area Networks. [STANDARDS-TRACK]

1468 Murai Jun 93 Japanese Character Encoding for Internet Messages

This document describes the encoding used in electronic mail [RFC822] and network news [RFC1036] messages in several Japanese networks. This memo provides information for the Internet community. It does not specify an Internet standard.

1467 Topolcic Aug 93 Status of CIDR Deployment in the Internet

This document describes the current status of the development and deployment of CIDR technology into the Internet. This document replaces RFC 1367, which was a schedule for the deployment of IP address space management procedures to support route aggregation. This memo provides information for the Internet community. It does not specify an Internet standard.

1466 Gerich May 93 Guidelines for Management of IP Address Space

This document proposes a plan which will forward the implementation of RFC 1174 and which defines the allocation and assignment of the network number space. This memo provides information for the Internet community. It does not specify an Internet standard.

1465 Eppenberger May 93 Routing Coordination for X.400 MHS Services Within a Multi Protocol / Multi Network Environment Table Format V3 for Static Routing

This document proposes short term solutions for maintaining and distributing routing information and shows how messages can travel over different networks by using multi stack MTAs as relays. This memo defines an Experimental Protocol for the Internet community.

1464 Rosenbaum May 93 Using the Domain Name System  
To Store Arbitrary String Attributes

This paper describes a simple means to associate arbitrary string information (ASCII text) with attributes that have not been defined by the DNS. This memo defines an Experimental Protocol for the Internet community.

1463 Hoffman May 93 FYI on Introducing the Internet--  
A Short Bibliography of Introductory  
Internetworking Readings for the Network  
Novice

This bibliography offers a short list of recent information resources that will help the network novice become familiar with the Internet, including its associated networks, resources, protocols, and history. This memo provides information for the Internet community. It does not specify an Internet standard.

1462 Krol May 93 FYI on "What is the Internet?"

This FYI RFC answers the question, "What is the Internet?" and is produced by the User Services Working Group of the Internet Engineering Task Force (IETF). This memo provides information for the Internet community. It does not specify an Internet standard.

1461 Throop May 93 SNMP MIB extension for Multiprotocol  
Interconnect over X.25

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 Multiprotocol Interconnect (including IP) traffic carried over X.25. [STANDARDS-TRACK]

1460 Rose Jun 93 Post Office Protocol - Version 3

This memo is a revision to RFC 1225, a Draft Standard. [STANDARDS-TRACK]

1459 Oikarinen May 93 Internet Relay Chat Protocol

The IRC protocol is a text-based protocol, with the simplest client being any socket program capable of connecting to the server. This memo defines an Experimental Protocol for the Internet community.

1458 Braudes May 93 Requirements for Multicast Protocols

This memo discusses some of these unresolved issues, and provides a high-level design for a new multicast transport protocol, group address and membership authority, and modifications to existing routing protocols. This memo provides information for the Internet community. It does not specify an Internet standard.

1457 Housley May 93 Security Label Framework for the Internet

This memo presents a security labeling framework for the Internet. The framework is intended to help protocol designers determine what, if any, security labeling should be supported by their protocols. This memo provides information for the Internet community. It does not specify an Internet standard.

1456 V.S.W.G. May 93 Conventions for Encoding the Vietnamese Language VISCII: Vietnamese Standard Code for Information Interchange VIQR: Vietnamese Quoted-Readable Specification Revision 1.1

This document provides information to the Internet community on the currently used conventions for encoding Vietnamese characters into 7-bit US ASCII and in an 8-bit form. This memo provides information for the Internet community. It does not specify an Internet standard.

1455 Eastlake May 93 Physical Link Security Type of Service

This RFC documents an experimental protocol providing a Type of Service (TOS) to request maximum physical link security. This is an addition to the types of service enumerated in RFC 1349: Type of Service in the Internet Protocol Suite. This memo defines an Experimental Protocol for the Internet community.

1454 Dixon May 93 Comparison of Proposals for Next Version of IP

This is a slightly edited reprint of RARE Technical Report (RTC(93)004). This memo provides information for the Internet community. It does not specify an Internet standard.

1453 Chimiak Apr 93 A Comment on Packet Video Remote Conferencing and the Transport/Network Layers

This RFC is a vehicle to inform the Internet community about XTP as it benefits from past Internet activity and targets general-purpose applications and multimedia applications with the emerging ATM networks in mind. This memo provides information for the Internet community. It does not specify an Internet standard.

1452 Case Apr 93 Coexistence between version 1 and version 2 of the Internet-standard Network Management Framework

The purpose of this document is to describe coexistence between version 2 of the Internet-standard Network Management Framework, termed the SNMP version 2 framework (SNMPv2) [1], and the original Internet-standard Network Management Framework (SNMPv1). [STANDARDS-TRACK]

1451 Case Apr 93 Manager-to-Manager Management Information Base

It is the purpose of this document to define managed objects which describe the behavior of a SNMPv2 entity acting in both a manager role and an agent role. [STANDARDS-TRACK]

1450 Case Apr 93 Management Information Base for version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document to define managed objects which describe the behavior of a SNMPv2 entity. [STANDARDS-TRACK]

1449 Case Apr 93 Transport Mappings for version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document to define how the SNMPv2 maps onto an initial set of transport domains. [STANDARDS-TRACK]

1448 Case Apr 93 Protocol Operations for version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document, Protocol Operations for SNMPv2, to define the operations of the protocol with respect to the sending and receiving of the PDUs. [STANDARDS-TRACK]

1447 McCloghrie Apr 93 Party MIB for version 2 of the Simple Network Management Protocol (SNMPv2)

The Administrative Model for SNMPv2 document [3] defines the properties associated with SNMPv2 parties, SNMPv2 contexts, and access control policies. It is the purpose of this document, the Party MIB for SNMPv2, to define managed objects which correspond to these properties. [STANDARDS-TRACK]

1446 Galvin Apr 93 Security Protocols for version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document, Security Protocols for SNMPv2, to define one such authentication and one such privacy protocol. [STANDARDS-TRACK]

1445 Galvin Apr 93 Administrative Model for version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document, the Administrative Model for SNMPv2, to define how the administrative framework is applied to realize effective network management in a variety of configurations and environments. [STANDARDS-TRACK]

1444 Case Apr 93 Conformance Statements for version 2 of the Simple Network Management Protocol (SNMPv2)

It may be useful to define the acceptable lower-bounds of implementation, along with the actual level of implementation achieved. It is the purpose of this document to define the notation used for these purposes. [STANDARDS-TRACK]

1443 Case Apr 93 Textual Conventions for version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document to define the initial set of textual conventions available to all MIB modules. [STANDARDS-TRACK]

1442 Case Apr 93 Structure of Management Information for version 2 of the Simple Network Management Protocol (SNMPv2)

Management information is viewed as a collection of managed objects, residing in a virtual information store, termed the Management Information Base (MIB). Collections of related objects are defined in MIB modules. These modules are written using a subset of OSI's Abstract Syntax Notation One (ASN.1) [1]. It is the purpose of this document, the Structure of Management Information (SMI), to define that subset. [STANDARDS-TRACK]

1441 Case Apr 93 Introduction to version 2 of the Internet-standard Network Management Framework

The purpose of this document is to provide an overview of version 2 of the Internet-standard Network Management Framework, termed the SNMP version 2 framework (SNMPv2). [STANDARDS-TRACK]

1440 Troth Jul 93 SIFT/UFT: Sender-Initiated/Unsolicited File Transfer

This document describes a Sender-Initiated File Transfer (SIFT) protocol, also commonly called Unsolicited File Transfer (UFT) protocol. This memo defines an Experimental Protocol for the Internet community.



1434 Dixon Mar 93 Data Link Switching: Switch-to-Switch Protocol

This RFC describes IBM's support of Data Link Switching over TCP/IP. This memo provides information for the Internet community. It does not specify an Internet standard.

1433 Garrett Mar 93 Directed ARP

Directed ARP is a dynamic address resolution procedure that enables hosts and routers to resolve advertised potential next-hop IP addresses on foreign IP networks to their associated link level addresses. This memo defines an Experimental Protocol for the Internet community.

1432 Quarterman Mar 93 Recent Internet Books

Here is a list of books related to using the Internet. This memo provides information for the Internet community. It does not specify an Internet standard.

1431 Barker Feb 93 DUA Metrics

This document defines a set of criteria by which a DUA implementation, or more precisely a Directory user interface, may be judged. This memo provides information for the Internet community. It does not specify an Internet standard.

1430 Kille Feb 93 A Strategic Plan for Deploying an Internet X.500 Directory Service

This document describes an overall strategy for deploying a Directory Service on the Internet, based on the OSI X.500 Directory Service. This memo provides information for the Internet community. It does not specify an Internet standard.

1429 Thomas Feb 93 Listserv Distribute Protocol

This memo specifies a subset of the distribution protocol used by the BITNET LISTSERV to deliver mail messages to large amounts of recipients. This memo provides information for the Internet community. It does not specify an Internet standard.

1428 Vaudreuil Feb 93 Transition of Internet Mail from  
Just-Send-8 to 8bit-SMTP/MIME

This document outlines the problems in this environment and an approach to minimizing the cost of transition from current usage of non-MIME 8bit messages to MIME. This RFC provides information for the Internet community. It does not specify an Internet standard.

1427 Klensin Feb 93 SMTP Service Extension  
for Message Size Declaration

This memo defines an extension to the SMTP service whereby an SMTP client and server may interact to give the server an opportunity to decline to accept a message (perhaps temporarily) based on the client's estimate of the message size. [STANDARDS-TRACK]

1426 Klensin Feb 93 SMTP Service Extension  
for 8bit-MIMEtransport

This memo defines an extension to the SMTP service whereby an SMTP content body containing octets outside of the US ASCII octet range (hex 00-7F) may be relayed using SMTP. [STANDARDS-TRACK]

1425 Klensin Feb 93 SMTP Service Extensions

This memo defines a framework for extending the SMTP service by defining a means whereby a server SMTP can inform a client SMTP as to the service extensions it supports. [STANDARDS-TRACK]

1424 Kaliski Feb 93 Privacy Enhancement for Internet  
Electronic Mail: Part IV: Key  
Certification and Related Services

This document describes three types of service in support of Internet Privacy-Enhanced Mail (PEM) [1-3]: key certification, certificate-revocation list (CRL) storage, and CRL retrieval. [STANDARDS-TRACK]

1423 Balenson Feb 93 Privacy Enhancement for Internet  
Electronic Mail: Part III: Algorithms,  
Modes, and Identifiers

This document provides definitions, formats, references, and citations for cryptographic algorithms, usage modes, and associated identifiers and parameters used in support of Privacy Enhanced Mail (PEM) in the Internet community. [STANDARDS-TRACK]

1422 Kent Feb 93 Privacy Enhancement for Internet  
Electronic Mail: Part II:  
Certificate-Based Key Management

This is one of a series of documents defining privacy enhancement mechanisms for electronic mail transferred using Internet mail protocols. [STANDARDS-TRACK]

1421 Linn Feb 93 Privacy Enhancement for Internet  
Electronic Mail: Part I: Message  
Encryption and Authentication  
Procedures

This document defines message encryption and authentication procedures, in order to provide privacy-enhanced mail (PEM) services for electronic mail transfer in the Internet. [STANDARDS-TRACK]

1420 Bostock Mar 93 SNMP over IPX

This document defines a convention for encapsulating Simple Network Management Protocol (SNMP) [1] packets over the transport mechanism provided via the Internetwork Packet Exchange (IPX) protocol [2]. [STANDARDS-TRACK]

1419 Minshall Mar 93 SNMP over AppleTalk

This memo describes the method by which the Simple Network Management Protocol (SNMP) as specified in [1] can be used over AppleTalk protocols [2] instead of the Internet UDP/IP protocol stack. [STANDARDS-TRACK]

1418     Rose                    Mar 93     SNMP over OSI

This memo addresses some concerns by defining a framework for running the SNMP in an environment which supports the OSI connectionless-mode transport service. [STANDARDS-TRACK]

1417     N.A.D.F.                Feb 93     NADF Standing Documents:  
                                  A Brief Overview

The purpose of this document is to provide a brief overview of the NADF's Standing Document series. This memo provides information for the Internet community. It does not specify an Internet standard.

1416     Borman                 Feb 93     Telnet Authentication Option

This RFC 1416 replaces RFC 1409, which has an important typographical error in the example on page 6 (one occurrence of "REPLY" should be "IS"). This memo defines an Experimental Protocol for the Internet community.

1415     Mindel                 Jan 93     FTP-FTAM Gateway Specification

This memo describes a dual protocol stack application layer gateway that performs protocol translation, in an interactive environment, between the FTP and FTAM file transfer protocols. [STANDARDS-TRACK]

1414     St. Johns               Feb 93     Identification MIB

This memo defines a MIB for use with identifying the users associated with TCP connections. It provides functionality approximately equivalent to that provided by the protocol defined in RFC 1413 [1]. [STANDARDS-TRACK]

1413     St. Johns               Feb 93     Identification Protocol

The Identification Protocol was formerly called the Authentication Server Protocol. It has been renamed to better reflect its function. [STANDARDS-TRACK]

1412 Alagappan Jan 93 Telnet Authentication: SPX

This memo defines an Experimental Protocol for the Internet community.

1411 Borman Jan 93 Telnet Authentication:  
Kerberos Version 4

This memo defines an Experimental Protocol for the Internet community.

1410 I.A.B Mar 93 IAB OFFICIAL PROTOCOL STANDARDS

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

1409 Borman Jan 93 Telnet Authentication Option

This memo defines an Experimental Protocol for the Internet community.

1408 Borman Jan 93 Telnet Environment Option

This document specifies a mechanism for passing environment information between a telnet client and server. [STANDARDS-TRACK]

1407 Cox Jan 93 Definitions of Managed Objects for the  
DS3/E3 Interface Type

This memo defines an extension to the Management Information Base (MIB) for use with network management protocols in TCP/IP-based internets. In particular, it defines objects for managing DS3 and E3 Interfaces. [STANDARDS-TRACK]

1406 Basker Jan 93 Definitions of Managed Objects for the  
DS1 and E1 Interface Types

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 DS1 Interfaces -- including both T1 and E1 (a.k.a., CEPT 2 Mbit/s) links. [STANDARDS-TRACK]

1405 Allocchio Jan 93 Mapping between X.400(1984/1988) and Mail-11 (DECnet mail)

This document describes a set of mappings which will enable inter working between systems operating the CCITT X.400 ( 1984 / 1988 ) Recommendations on Message Handling Systems, and systems running the Mail-11 (also known as DECnet mail) protocol. This memo defines an Experimental Protocol for the Internet community.

1404 Stockman Jan 93 A Model for Common Operational Statistics

This memo describes a model for operational statistics in the Internet. It gives recommendations for metrics, measurements, polling periods, storage formats and presentation formats. This memo provides information for the Internet community. It does not specify an Internet standard.

1403 Varadhan Jan 93 BGP OSPF Interaction

This memo defines the various criteria to be used when designing an Autonomous System Border Routers (ASBR) that will run BGP with other ASBRs external to the AS and OSPF as its IGP. [STANDARDS-TRACK]

1402 Martin Jan 93 There's Gold in them thar Networks! Searching for Treasure in all the Wrong Places

The ultimate goal is to make the route to these sources of information invisible to you. At present, this is not easy to do. I will explain some of the techniques that can be used to make these nuggets easier to pick up so that we all can be richer. This RFC provides information for the Internet community. It does not specify an Internet standard.

1401 I.A.B. Jan 93 Correspondence between the IAB and DISA on the use of DNS throughout the Internet

This memo reproduces three letters exchanged between the Internet Activities Board (IAB) and the Defense Information Systems Agency (DISA) regarding the importance of using the Domain Name System (DNS) throughout the Internet, and phasing out the use of older host name to address tables, such as "hosts.txt". This memo provides information for the Internet community. It does not specify an Internet standard.

1400 Williamson Mar 93 Transition and Modernization  
of the Internet Registration Service

As a result of the NREN NIS award by National Science Foundation, non-DDN registration services will soon be transferred from the DDN NIC to the new Internet Registration Service, which is a part of an entity referred to as the InterNIC. This memo provides information for the Internet community. It does not specify an Internet standard.

#### Security Considerations

Security issues are not discussed in this memo.

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