

## Request for Comments Summary

### RFC Numbers 1900-1999

#### Status of This Memo

This RFC is a slightly annotated list of the 100 RFCs from RFC 1900 through RFCs 1999. 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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1999	Elliott	Jan 97	Requests For Comments Summary

This memo.

1998	Chen	Aug 96	An Application of the BGP Community Attribute in Multi-home Routing
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This document presents an application of the BGP community attribute [2] in simplifying the implementation and configuration of routing policies in the multi-provider Internet. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1997 Chandra Aug 96 BGP Communities Attribute

This document describes an extension to BGP which may be used to pass additional information to both neighboring and remote BGP peers.  
[STANDARDS-TRACK]

1996 Vixie Aug 96 A Mechanism for Prompt Notification of  
Zone Changes (DNS NOTIFY)

This memo describes the NOTIFY opcode for DNS, by which a master server advises a set of slave servers that the master's data has been changed and that a query should be initiated to discover the new data.  
[STANDARDS-TRACK]

1995 Ohta Aug 96 Incremental Zone Transfer in DNS

This document proposes extensions to the DNS protocols to provide an incremental zone transfer (IXFR) mechanism. [STANDARDS-TRACK]

1994 Simpson Aug 96 PPP Challenge Handshake Authentication  
Protocol (CHAP)

This document defines a method for Authentication using PPP, which uses a random Challenge, with a cryptographically hashed Response which depends upon the Challenge and a secret key. [STANDARDS-TRACK]

1993 Barbir Aug 96 PPP Gandalf FZA Compression Protocol

This document describes the use of the Gandalf FZA data compression algorithm [3] for compressing PPP encapsulated packets. This memo provides information for the Internet community. It does not specify an Internet standard.

1992 Castineyra Aug 96 The Nimrod Routing Architecture

Nimrod is a scalable routing architecture designed to accommodate a continually expanding and diversifying internetwork. First suggested by Noel Chiappa, the Nimrod architecture has undergone revision and refinement through the efforts of the Nimrod working group of the IETF. In this document, we present a detailed description of this architecture. This memo provides information for the Internet community. It does not specify an Internet standard.



1986 Polites Aug 96 Experiments with a Simple File Transfer Protocol for Radio Links using Enhanced Trivial File Transfer Protocol (ETFTP)

This document is a description of the Enhanced Trivial File Transfer Protocol (ETFTP). This protocol is an experimental implementation of the NETwork BLOCK Transfer Protocol (NETBLT), RFC 998 [1], as a file transfer application program. This memo defines an Experimental Protocol for the Internet community.

1985 De Winter Aug 96 SMTP Service Extension for Remote Message Queue Starting

This memo defines an extension to the SMTP service whereby an SMTP client and server may interact to give the server an opportunity to start the processing of its queues for messages to go to a given host. [STANDARDS-TRACK]

1984 I.A.B. Aug 96 IAB and IESG Statement on Cryptographic Technology and the Internet

The Internet Architecture Board (IAB) and the Internet Engineering Steering Group (IESG), the bodies which oversee architecture and standards for the Internet, are concerned by the need for increased protection of international commercial transactions on the Internet, and by the need to offer all Internet users an adequate degree of privacy. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1983 Malkin Aug 96 Internet Users' Glossary

There are many networking glossaries in existence. This glossary concentrates on terms which are specific to the Internet. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1982 Elz Aug 96 Serial Number Arithmetic

The DNS has long relied upon serial number arithmetic, a concept which has never really been defined, certainly not in an IETF document, though which has been widely understood. This memo supplies the missing definition. It is intended to update RFC1034 and RFC1035. [STANDARDS-TRACK]

1981 McCann Aug 96 Path MTU Discovery for IP version 6

This document describes Path MTU Discovery for IP version 6. It is largely derived from RFC 1191, which describes Path MTU Discovery for IP version 4. [STANDARDS-TRACK]

1980 Seidman Aug 96 A Proposed Extension to HTML :  
Client-Side Image Maps

This document specifies an extension to the HTML language, referred to as "Client-Side Image Maps," which resolves some limitations. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1979 Woods Aug 96 PPP Deflate Protocol

This document describes the use of the PPP Deflate compression protocol for compressing PPP encapsulated packets. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1978 Rand Aug 96 PPP Predictor Compression Protocol

This document describes the use of the Predictor data compression algorithm for compressing PPP encapsulated packets. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1977 Schryver Aug 96 PPP BSD Compression Protocol

This document describes the use of the Unix Compress compression protocol for compressing PPP encapsulated packets. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1976 Schneider Aug 96 PPP for Data Compression in Data  
Circuit-Terminating Equipment (DCE)

This document defines a specific set of parameters for these protocols and an LCP extension to define a standard way of using PPP for data compression of serial data in Data Circuit-Terminating Equipment (DCE). This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1975 Schremp Aug 96 PPP Magnalink Variable Resource  
Compression

The Magnalink Variable Resource Compression Algorithm (MVRCA) allows a wide range of interoperable compression implementations whose performance characteristics are a function of available CPU and memory resources. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1974 Friend Aug 96 PPP Stac LZS Compression Protocol

This document describes the use of the Stac LZS data compression algorithm, with single or multiple compression histories, for compressing PPP encapsulated packets. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1973 Simpson Jun 96 PPP in Frame Relay

This document describes the use of Frame Relay for framing PPP encapsulated packets. [STANDARDS-TRACK]

1972 Crawford Aug 96 A Method for the Transmission of IPv6  
Packets over Ethernet Networks

This memo specifies the frame format for transmission of IPv6 [IPV6] packets and the method of forming IPv6 link-local addresses on Ethernet networks. [STANDARDS-TRACK]

1971 Thomson Aug 96 IPv6 Stateless Address Autoconfiguration

This document specifies the steps a host takes in deciding how to autoconfigure its interfaces in IP version 6. [STANDARDS-TRACK]

1970 Narten Aug 96 Neighbor Discovery for IP Version 6  
(IPv6)

This document specifies the Neighbor Discovery protocol for IP Version 6. [STANDARDS-TRACK]

1969 Sklower Jun 96 The PPP DES Encryption Protocol (DESE)

This document provides specific details for the use of the DES standard [5, 6] for encrypting PPP encapsulated packets. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1968 Meyer Jun 96 The PPP Encryption Control Protocol  
(ECP)

This document defines a method for negotiating data encryption over PPP links. [STANDARDS-TRACK]

1967 Schneider Aug 96 PPP LZS-DCP Compression Protocol  
(LZS-DCP)

This document describes the use of the Stac LZS data compression algorithm for compressing PPP encapsulated packets, using a DCP header [6]. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1966 Bates Jun 96 BGP Route Reflection  
An alternative to full mesh IBGP

This document describes the use and design of a method known as "Route Reflection" to alleviate the the need for "full mesh" IBGP. This memo defines an Experimental Protocol for the Internet community.

1965 Traina Jun 96 Autonomous System Confederations for BGP

This document describes an extension to BGP which may be used to create a confederation of autonomous systems which is represented as one single autonomous system to BGP peers external to the confederation. This memo defines an Experimental Protocol for the Internet community.

1964 Linn Jun 96 The Kerberos Version 5 GSS-API Mechanism

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 Kerberos Version 5 technology (as specified in RFC 1510). [STANDARDS-TRACK]

1963 Schneider Aug 96 PPP Serial Data Transport Protocol (SDTP)

This document describes a new Network level protocol (from the PPP point of view), PPP Serial Data Transport Protocol, that provides encapsulation and an associated control protocol for transporting serial data streams over a PPP link. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1962 Rand Jun 96 The PPP Compression Control Protocol (CCP)

This document defines a method for negotiating data compression over PPP links. [STANDARDS-TRACK]

1961 McMahon Jun 96 GSS-API Authentication Method for SOCKS Version 5

This document provides the specification for the SOCKS V5 GSS-API authentication protocol, and defines a GSS-API-based encapsulation for provision of integrity, authentication and optional confidentiality. [STANDARDS-TRACK]

1960 Howes Jun 96 A String Representation of LDAP Search Filters

The Lightweight Directory Access Protocol (LDAP) [1] defines a network representation of a search filter transmitted to an LDAP server. Some applications may find it useful to have a common way of representing these search filters in a human-readable form. This document defines a human-readable string format for representing LDAP search filters. [STANDARDS-TRACK]





1954 Newman May 96 Transmission of Flow Labelled IPv4 on  
ATM Data Links Ipsilon Version 1.0

This document specifies the manner for transmitting IPv4 datagrams over an ATM data link, both in a default manner and in the presence of flow labelling via Ipsilon Flow Management Protocol [IFMP]. This document provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1953 Newman May 96 Ipsilon Flow Management Protocol  
Specification for IPv4 Version 1.0

The Ipsilon Flow Management Protocol (IFMP), is a protocol for allowing a node to instruct an adjacent node to attach a layer 2 label to a specified IP flow. This document provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1952 Deutsch May 96 GZIP file format specification  
version 4.3

This specification defines a lossless compressed data format that is compatible with the widely used GZIP utility. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1951 Deutsch May 96 DEFLATE Compressed Data Format  
Specification version 1.3

This specification defines a lossless compressed data format that compresses data using a combination of the LZ77 algorithm and Huffman coding, with efficiency comparable to the best currently available general-purpose compression methods. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1950 Deutsch May 96 ZLIB Compressed Data Format  
Specification version 3.3

This specification defines a lossless compressed data format. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1949 Ballarde May 96 Scalable Multicast Key Distribution

This memo provides a scalable solution to the multicast key distribution problem. This memo defines an Experimental Protocol for the Internet community.

1948 Bellovin May 96 Defending Against Sequence Number Attacks

IP spoofing attacks based on sequence number spoofing have become a serious threat on the Internet (CERT Advisory CA-95:01). While ubiquitous cryptographic authentication is the right answer, we propose a simple modification to TCP implementations that should be a very substantial block to the current wave of attacks. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1947 Spinellis May 96 Greek Character Encoding for Electronic Mail Messages

This document describes a standard encoding for electronic mail [RFC822] containing Greek text and provides implementation guide-lines. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1946 Jackowski May 96 Native ATM Support for ST2+

This memo describes a working implementation which enables applications to directly invoke ATM services in the following environments: ATM to internet, internet to ATM, and internet to internet across ATM. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1945 Berners-Lee May 96 Hypertext Transfer Protocol -- HTTP/1.0

The Hypertext Transfer Protocol (HTTP) is an application-level protocol with the lightness and speed necessary for distributed, collaborative, hypermedia information systems. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1944 Bradner May 96 Benchmarking Methodology for Network Interconnect Devices

This document discusses and defines a number of tests that may be used to describe the performance characteristics of a network interconnecting device. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1943 Jennings May 96 Building an X.500 Directory Service in the US

This document provides definition and recommends considerations that must be undertaken to operate a X.500 Directory Service in the United States. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1942 Raggett May 96 HTML Tables

This specification extends HTML to support a wide variety of tables. This memo defines an Experimental Protocol for the Internet community.

1941 Sellers May 96 Frequently Asked Questions for Schools

The goal of this FYI document, produced by the Internet School Networking (ISN) group in the User Services Area of the Internet Engineering Task Force (IETF), is to act as an introduction to the Internet for faculty, administration, and other school personnel in primary and secondary schools. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1940 Estrin May 96 Source Demand Routing: Packet Format and Forwarding Specification (Version 1).

The purpose of SDRP is to support source-initiated selection of routes to complement the route selection provided by existing routing protocols for both inter-domain and intra-domain routes. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1939 Myers May 96 Post Office Protocol - Version 3

The Post Office Protocol - Version 3 (POP3) is intended to permit a workstation to dynamically access a maildrop on a server host in a useful fashion. [STANDARDS-TRACK]

1938 Haller May 96 A One-Time Password System

This document describes a one-time password authentication system (OTP). [STANDARDS-TRACK]

1937 Rekhter May 96 "Local/Remote" Forwarding Decision in Switched Data Link Subnetworks

This document describes extensions to the IP architecture that relaxes these constraints, thus enabling the full utilization of the services provided by SVC-based Data Link subnetworks. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1936 Touch Apr 96 Implementing the Internet Checksum in Hardware

This memo presents a techniques for efficiently implementing the Internet Checksum in hardware. It includes PLD code for programming a single, low cost part to perform checksumming at 1.26 Gbps. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1935 Quarterman Apr 96 What is the Internet, Anyway?

This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1934 Smith Apr 96 Ascend's Multilink Protocol Plus (MP+)

This document proposes an extension to the PPP Multilink Protocol (MP) [1]. Multilink Protocol Plus (MP+) is a new control protocol for managing multiple data links that are bundled by MP. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1933 Gilligan Apr 96 Transition Mechanisms for IPv6 Hosts  
and Routers

This document specifies IPv4 compatibility mechanisms that can be implemented by IPv6 hosts and routers. [STANDARDS-TRACK]

1932 Cole Apr 96 IP over ATM: A Framework Document

It is hoped that this document, in classifying ATM approaches and issues will help to focus the IP over ATM working group's direction. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1931 Brownell Apr 96 Dynamic RARP Extensions for  
Automatic Network Address Acquisition

This memo describes extensions to the Reverse Address Resolution Protocol (RARP [2]) and called Dynamic RARP (DRARP, pronounced D-RARP). This memo provides information for the Internet community. This memo does not define an Internet standard of any kind.

1930 Hawkinson Mar 96 Guidelines for creation, selection, and  
registration of an Autonomous System (AS)

This memo discusses when it is appropriate to register and utilize an Autonomous System (AS), and lists criteria for such. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

1929 Leech Mar 96 Username/Password Authentication for  
SOCKS V5

The protocol specification for SOCKS Version 5 specifies a generalized framework for the use of arbitrary authentication protocols in the initial socks connection setup. This document describes one of those protocols, as it fits into the SOCKS Version 5 authentication "subnegotiation". [STANDARDS-TRACK]



1923 Halpern Mar 96 RIPv1 Applicability Statement for  
Historic Status

RIP Version 1 [RFC-1058] has been declared an historic document. This Applicability statement provides the supporting motivation for that declaration. The primary reason, as described below, is the Classful nature of RIPv1. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1922 Zhu Mar 96 Chinese Character Encoding for Internet  
Messages

This memo describes methods of transporting Chinese characters in Internet services which transport text, such as electronic mail [RFC-822], network news [RFC-1036], telnet [RFC-854] and the World Wide Web [RFC-1866]. This memo provides information for the Internet community. It does not specify an Internet standard.

1921 Dujonc Mar 96 TNVIP Protocol

The goal of this document specifies a Telnet profile to support VIP terminal emulation allowing the access to the BULL hosts applications through a TCP/IP network. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1920 I.A.B. Mar 96 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). [STANDARDS-TRACK]

1919 Chatel Mar 96 Classical versus Transparent IP Proxies

This document explains "classical" and "transparent" proxy techniques and attempts to provide rules to help determine when each proxy system may be used without causing problems. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.



1918     Rekhter         Feb 96     Address Allocation for Private Internets

This document describes address allocation for private internets. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

1917     Nesser         Feb 96     An Appeal to the Internet Community to  
Return Unused IP Networks (Prefixes)  
to the IANA

This document is an appeal to the Internet community to return unused address space, i.e. any block of consecutive IP prefixes, to the Internet Assigned Numbers Authority (IANA) or any of the delegated registries, for reapportionment. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

1916     Berkowitz      Feb 96     Enterprise Renumbering: Experience and  
Information Solicitation

Because of the urgent need for, and substantial difficulty in, renumbering IP networks, the PIER working group is compiling a series of documents to assist sites in their renumbering efforts. The intent of these documents is to provide both educational and practical information to the Internet community. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1915     Kastenholz     Feb 96     Variance for The PPP Connection Control  
Protocol and The PPP Encryption Control  
Protocol

The PPP Working group has developed two protocols, one to control compression on PPP links; the Compression Control Protocol (CCP), documented in draft-ietf-pppext-compression-04.txt. The second is the Encryption Control Protocol (ECP), used to control encryption on serial links, documented in draft-ietf-pppext-encryption-03.txt. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

1914 Faltstrom Feb 96 How to Interact with a Whois++ Mesh

In the Whois++ architecture [Deutsch94],[Weider94], mesh traversal is done by the client, since each server 'refers' the client to the next appropriate server(s). [STANDARDS-TRACK]

1913 Weider Feb 96 Architecture of the Whois++ Index Service

The authors describe an architecture for indexing in distributed databases, and apply this to the WHOIS++ protocol. [STANDARDS-TRACK]

1912 Barr Feb 96 Common DNS Operational and Configuration Errors

This memo describes errors often found in both the operation of Domain Name System (DNS) servers, and in the data that these DNS servers contain. This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

1911 Vaudreuil Feb 96 Voice Profile of Internet Mail

The following document is a profile of the Internet standard MIME and ESMTP protocols for use as a digital voice networking protocol. This memo defines an Experimental Protocol for the Internet community.

1910 Waters Feb 96 User-based Security Model for SNMPv2

In this administrative framework, a security model defines the mechanisms used to achieve an administratively-defined level of security for protocol interactions. Although many such security models might be defined, it is the purpose of this document, User-based Security Model for SNMPv2, to define the first, and, as of this writing, only, security model for this administrative framework. This memo defines an Experimental Protocol for the Internet community.

1909 McClogherie Feb 96 An Administrative Infrastructure for SNMPv2

It is the purpose of this document, An Administrative Infrastructure for SNMPv2, to define an administrative framework which realizes effective management in a variety of configurations and environments. This memo defines an Experimental Protocol for the Internet community.

1908 Case Jan 96 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 [1-6], termed the SNMP version 2 framework (SNMPv2), and the original Internet-standard Network Management Framework (SNMPv1). [STANDARDS-TRACK]

1907 Case Jan 96 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]

1906 Case Jan 96 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]

1905 Case Jan 96 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]

1904 Case Jan 96 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]

1903 Case Jan 96 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]

1902 Case Jan 96 Structure of Management Information for Version 2 of the Simple Network Management Protocol (SNMPv2)

It is the purpose of this document, the Structure of Management Information (SMI), to define that adapted subset, and to assign a set of associated administrative values. [STANDARDS-TRACK]

1901 Case Jan 96 Introduction to Community-based SNMPv2

The purpose of this document is to define the Community-based Administrative Framework for the SNMP version 2 framework (SNMPv2). This document specifies an Experimental protocol for the Internet community.

1900 Carpenter Feb 96 Renumbering Needs Work

Hosts in an IP network are identified by IP addresses, and the IP address prefixes of subnets are advertised by routing protocols. A change in such IP addressing information associated with a host or subnet is known as "renumbering". This memo provides information for the Internet community. This memo does not specify an Internet standard of any kind.

#### Security Considerations

Security issues are not discussed in this memo.

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