

Network Working Group
Request for Comments: 2999
Category: Informational

S. Ginoza
ISI
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Request for Comments Summary

RFC Numbers 2900-2999

Status of This Memo

This RFC is a slightly annotated list of the 100 RFCs from RFC 2900 through RFCs 2999. 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 -----
2999	Ginoza	Aug 2001	Request for Comments Summary

This memo.

2998	Bernet	Nov 2000	A Framework for Integrated Services Operation over Diffserv Networks
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This document describes a framework by which Integrated Services may be supported over Diffserv networks. This memo provides information for the Internet community.

2993 Hain Nov 2000 Architectural Implications of
 NAT

This document discusses some of the architectural implications and guidelines for implementations of Network Address Translation (NAT). This memo provides information for the Internet community.

2992 Hopps Nov 2000 Analysis of an Equal-Cost
 Multi-Path Algorithm

Equal-cost multi-path (ECMP) is a routing technique for routing packets along multiple paths of equal cost. The forwarding engine identifies paths by next-hop. When forwarding a packet the router must decide which next-hop (path) to use. This document gives an analysis of one method for making that decision. The analysis includes the performance of the algorithm and the disruption caused by changes to the set of next-hops. This memo provides information for the Internet community.

2991 Thaler Nov 2000 Multipath Issues in Unicast
 and Multicast Next-Hop
 Selection

The effect of multipath routing on a forwarder is that the forwarder potentially has several next-hops for any given destination and must use some method to choose which next-hop should be used for a given data packet. This memo summarizes current practices, problems, and solutions. This memo provides information for the Internet community.

2990 Huston Nov 2000 Next Steps for the IP QoS
 Architecture

This document highlights the outstanding architectural issues relating to the deployment and use of QoS mechanisms within internet networks, noting those areas where further standards work may assist with the deployment of QoS internets. This document is the outcome of a collaborative exercise on the part of the Internet Architecture Board. This memo provides information for the Internet community.

2989 Aboba Nov 2000 Criteria for Evaluating AAA
 Protocols for Network Access

This document represents a summary of Authentication, Authorization, Accounting (AAA) protocol requirements for network access. This memo provides information for the Internet community.

2988 Paxson Nov 2000 Computing TCP's Retransmission Timer

This document defines the standard algorithm that Transmission Control Protocol (TCP) senders are required to use to compute and manage their retransmission timer. [STANDARDS TRACK]

2987 Hoffman Nov 2000 Registration of Charset and Languages Media Features Tags

This document contains the registration for two media feature tags: "charset" and "language". [STANDARDS TRACK]

2986 Nystrom Nov 2000 PKCS #10: Certification Request Syntax Specification Version 1.7

This memo represents a republication of PKCS #10 v1.7 from RSA Laboratories' Public-Key Cryptography Standards (PKCS) series, and change control is retained within the PKCS process. The body of this document, except for the security considerations section, is taken directly from the PKCS #9 v2.0 or the PKCS #10 v1.7 document. This memo provides information for the Internet community.

2985 Nystrom Nov 2000 PKCS #9: Selected Object Classes and Attribute Types Version 2.0

This memo represents a republication of PKCS #9 v2.0 from RSA Laboratories' Public-Key Cryptography Standards (PKCS) series, and change control is retained within the PKCS process. The body of this document, except for the security considerations section, is taken directly from that specification. This memo provides information for the Internet community.

2984 Adams Oct 2000 Use of the CAST-128 Encryption Algorithm in CMS

This document specifies how to incorporate CAST-128 into the S/MIME Cryptographic Message Syntax (CMS) as an additional algorithm for symmetric encryption. [STANDARDS TRACK]

2973 Balay Oct 2000 IS-IS Mesh Groups

This document describes a mechanism to reduce redundant packet transmissions for the Intermediate System to Intermediate System (IS-IS) Routing protocol, as described in ISO 10589. This memo provides information for the Internet community.

2972 Popp Oct 2000 Context and Goals for Common
Name Resolution

This document establishes the context and goals for a Common Name Resolution Protocol. This memo provides information for the Internet community.

2971 Showalter Oct 2000 IMAP4 ID extension

This document describes an ID extension which will enable Internet Message Access Protocol - Version 4rev1 (IMAP4rev1) to advertise what program a client or server uses to provide service. The ID extension allows the server and client to exchange identification information on their implementation in order to make bug reports and usage statistics more complete. [STANDARDS TRACK]

2970 Daigle Oct 2000 Architecture for Integrated
Directory Services - Result
from TISDAG

Drawing from experiences with the TISDAG (Technical Infrastructure for Swedish Directory Access Gateways) project, this document outlines an approach to providing the necessary infrastructure for integrating such widely-scattered servers into a single service, rather than attempting to mandate a single protocol and schema set for all participating servers to use. This memo provides information for the Internet community.

2969 Eklof Oct 2000 Wide Area Directory Deployment
 - Experiences from TISDAG

This document catalogues some of the experiences gained in developing the necessary infrastructure for a national (i.e., multi-organizational) directory service and pilot deployment of the service in an environment with off-the-shelf directory service products. This memo provides information for the Internet community.

2968 Daigle Oct 2000 Mesh of Multiple DAG servers -
 Results from TISDAG

This document defines the basic principle for establishing a mesh, that interoperating services should exchange index objects, according to the architecture of the mesh (e.g., hierarchical, or graph-like, preferably without loops!). The Common Indexing Protocol (CIP) is designed to facilitate the creation not only of query referral indexes, but also of meshes of (loosely) affiliated referral indexes. The purpose of such a mesh of servers is to implement some kind of distributed sharing of indexing and/or searching tasks across different servers. So far, the TISDAG (Technical Infrastructure for Swedish Directory Access Gateways) project has focused on creating a single referral index; the obvious next step is to integrate that into a larger set of interoperating services. This memo provides information for the Internet community.

2967 Daigle Oct 2000 TISDAG - Technical
 Infrastructure for Swedish
 Directory Access Gateways

The overarching goal of this project is to develop the necessary technical infrastructure to provide a single-access-point service for searching for whitepages information on Swedish Internet users. This memo provides information for the Internet community.

2966 Li Oct 2000 Domain-wide Prefix
 Distribution with Two-Level
 IS-IS

This document describes extensions to the Intermediate System to Intermediate System (IS-IS) protocol to support optimal routing within a two-level domain. This memo provides information for the Internet community.

2956 Kaat Oct 2000 Overview of 1999 IAB Network
 Layer Workshop

This document is an overview of a workshop held by the Internet Architecture Board (IAB) on the Internet Network Layer architecture hosted by SURFnet in Utrecht, the Netherlands on 7-9 July 1999. The goal of the workshop was to understand the state of the network layer and its impact on continued growth and usage of the Internet. This memo provides information for the Internet community.

2955 Rehbehn Oct 2000 Definitions of Managed Objects
 for Monitoring and Controlling
 the Frame Relay/ATM PVC Service
 Interworking Function

This memo defines a Management Information Base (MIB) to configure, monitor, and control a service interworking function (IWF) for Permanent Virtual Connections (PVC) between Frame Relay and Asynchronous Transfer Mode (ATM) technologies. [STANDARDS TRACK]

2954 Rehbehn Oct 2000 Definitions of Managed Objects
 for Frame Relay Service

This memo defines an extension to the Management Information Base (MIB) for use with network management protocols in Transmission Control Protocol/Internet Protocol-based (TCP/IP) internets. In particular, it defines objects for managing the frame relay service. [STANDARDS TRACK]

2953 Ts'o Sep 2000 Telnet Encryption: DES 64 bit
 Output Feedback

This document specifies how to use the data encryption standard (DES) encryption algorithm in output feedback mode with the telnet encryption option. This memo provides information for the Internet community.

2952 Ts'o Sep 2000 Telnet Encryption: DES 64 bit
 Cipher Feedback

This document specifies how to use the DES encryption algorithm in cipher feedback mode with the telnet encryption option. This memo provides information for the Internet community.

2951 Housley Sep 2000 TELNET Authentication Using
KEA and SKIPJACK

This document defines a method to authenticate TELNET using the Key Exchange Algorithm (KEA), and encryption of the TELNET stream using SKIPJACK. This memo provides information for the Internet community.

2950 Altman Sep 2000 Telnet Encryption: CAST-128 64
bit Cipher Feedback

This document specifies how to use the CAST-128 encryption algorithm in cipher feedback mode with the telnet encryption option. Two key sizes are defined: 40 bit and 128 bit. [STANDARDS TRACK]

2949 Altman Sep 2000 Telnet Encryption: CAST-128 64
bit Output Feedback

This document specifies how to use the CAST-128 encryption algorithm in output feedback mode with the telnet encryption option. Two key sizes are defined: 40 bit and 128 bit. [STANDARDS TRACK]

2948 Altman Sep 2000 Telnet Encryption: DES3 64 bit
Output Feedback

This document specifies how to use the Triple-DES (data encryption standard) encryption algorithm in output feedback mode with the telnet encryption option. [STANDARDS TRACK]

2947 Altman Sep 2000 Telnet Encryption: DES3 64 bit
Cipher Feedback

This document specifies how to use the Triple-DES (data encryption standard) encryption algorithm in cipher feedback mode with the telnet encryption option. [STANDARDS TRACK]

2946 Ts'o Sep 2000 Telnet Data Encryption Option

This document describes a the telnet encryption option as a generic method of providing data confidentiality services for the telnet data stream. [STANDARDS TRACK]

2945 Wu Sep 2000 The SRP Authentication and Key
Exchange System

This document describes a cryptographically strong network authentication mechanism known as the Secure Remote Password (SRP) protocol. [STANDARDS TRACK]

2944 Wu Sep 2000 Telnet Authentication: SRP

This document specifies an authentication scheme for the Telnet protocol under the framework described in RFC 2941, using the Secure Remote Password Protocol (SRP) authentication mechanism. [STANDARDS TRACK]

2943 Housley Sep 2000 TELNET Authentication Using
DSA

This document defines a telnet authentication mechanism using the Digital Signature Algorithm (DSA). It relies on the Telnet Authentication Option. [STANDARDS TRACK]

2942 Ts'o Sep 2000 Telnet Authentication:
Kerberos Version 5

This document describes how Kerberos Version 5 is used with the telnet protocol. It describes an telnet authentication suboption to be used with the telnet authentication option. [STANDARDS TRACK]

2941 Ts'o Sep 2000 Telnet Authentication Option

This document describes the authentication option to the telnet protocol as a generic method for negotiating an authentication type and mode including whether encryption should be used and if credentials should be forwarded. [STANDARDS TRACK]

2940 Smith Oct 2000 Definitions of Managed Objects
for Common Open Policy Service
(COPS) Protocol Clients

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 a client of the Common Open Policy Service (COPS) protocol. [STANDARDS TRACK]

2939 Droms Sep 2000 Procedures and IANA Guidelines
 for Definition of New DHCP
 Options and Message Types

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

2938 Klyne Sep 2000 Identifying Composite Media
 Features

This document describes an abbreviated format for a composite media feature set, based upon a hash of the feature expression describing that composite. [STANDARDS TRACK]

2937 Smith Sep 2000 The Name Service Search Option
 for DHCP

This document defines a new Dynamic Host Configuration Protocol (DHCP) option which is passed from the DHCP Server to the DHCP Client to specify the order in which name services should be consulted when resolving hostnames and other information. [STANDARDS TRACK]

2936 Eastlake Sep 2000 HTTP MIME Type Handler
 Detection

Entities composing web pages to provide services over the Hypertext Transfer Protocol (HTTP) frequently have the problem of not knowing what Multipurpose Internet Mail Extensions (MIME) types have handlers installed at a user's browser. This document summarizes reasonable techniques to solve this problem for most of the browsers actually deployed on the Internet as of early 2000. This memo provides information for the Internet community.

2935 Eastlake Sep 2000 Internet Open Trading Protocol
 (IOTP) HTTP Supplement

The goal of mapping to the transport layer is to ensure that the underlying XML documents are carried successfully between the various parties. This document describes that mapping for the Hyper Text Transport Protocol (HTTP), Versions 1.0 and 1.1. [STANDARDS TRACK]

2924 Brownlee Sep 2000 Accounting Attributes and
Record Formats

This document summarises Internet Engineering Task Force (IETF) and International Telecommunication Union (ITU-T) documents related to Accounting. This memo provides information for the Internet community.

2923 Lahey Sep 2000 TCP Problems with Path MTU
Discovery

This memo catalogs several known Transmission Control Protocol (TCP) implementation problems dealing with Path Maximum Transmission Unit Discovery (PMTUD), including the long-standing black hole problem, stretch acknowledgements (ACKs) due to confusion between Maximum Segment Size (MSS) and segment size, and MSS advertisement based on PMTU. This memo provides information for the Internet community.

2922 Bierman Sep 2000 Physical Topology MIB

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 physical topology identification and discovery. This memo provides information for the Internet community.

2921 Fink Sep 2000 6BONE pTLA and pNLA Formats
(pTLA)

This memo defines how the 6bone uses the 3FFE::/16 IPv6 address prefix, allocated in RFC 2471, "IPv6 Testing Address Allocation", to create pseudo Top-Level Aggregation Identifiers (pTLA's) and pseudo Next-Level Aggregation Identifiers (pNLA's). This memo provides information for the Internet community.

2920 Freed Sep 2000 SMTP Service Extension for
Command Pipelining

This memo defines an extension to the Simple Mail Transfer Protocol (SMTP) service whereby a server can indicate the extent of its ability to accept multiple commands in a single Transmission Control Protocol (TCP) send operation. [STANDARDS TRACK]

2914 Floyd Sep 2000 Congestion Control Principles

The goal of this document is to explain the need for congestion control in the Internet, and to discuss what constitutes correct congestion control. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

2913 Klyne Sep 2000 MIME Content Types in Media
Feature Expressions

This memo defines a media feature tag whose value is a Multipurpose Internet Mail Extensions (MIME) content type. [STANDARDS TRACK]

2912 Klyne Sep 2000 Indicating Media Features for
MIME Content

This memo defines a Multipurpose Internet Mail Extensions (MIME) 'Content-features:' header that can be used to annotate a MIME message part using this expression format, and indicates some ways it might be used. [STANDARDS TRACK]

2911 Hastings Sep 2000 Internet Printing
Protocol/1.1: Model and
Semantics

This document is one of a set of documents, which together describe all aspects of a new Internet Printing Protocol (IPP). [STANDARDS TRACK]

2910 Herriot Sep 2000 Internet Printing
Protocol/1.1: Encoding and
Transport

This document is one of a set of documents, which together describe all aspects of a new Internet Printing Protocol (IPP). [STANDARDS TRACK]

2909 Radoslavov Sep 2000 The Multicast Address-Set
Claim (MASC) Protocol

This document describes the Multicast Address-Set Claim (MASC) protocol which can be used for inter-domain multicast address set allocation. This memo defines an Experimental Protocol for the Internet community.

2908 Thaler Sep 2000 The Internet Multicast Address
Allocation Architecture

This document proposes a multicast address allocation architecture (MALLOC) for the Internet. This memo provides information for the Internet community.

2907 Kermode Sep 2000 MADCAP Multicast Scope Nesting
State Option

This document defines a new option to the Multicast Address Dynamic Client Allocation Protocol (MADCAP) to support nested scoping.
[STANDARDS TRACK]

2906 Farrell Aug 2000 AAA Authorization Requirements

This document specifies the requirements that Authentication Authorization Accounting (AAA) protocols must meet in order to support authorization services in the Internet. This memo provides information for the Internet community.

2905 Vollbrecht Aug 2000 AAA Authorization Application
Examples

This memo describes several examples of applications requiring authorization. This memo provides information for the Internet community.

2904 Vollbrecht Aug 2000 AAA Authorization Framework

This memo serves as the base requirements for Authorization of Internet Resources and Services (AIRS). It presents an architectural framework for understanding the authorization of Internet resources and services and derives requirements for authorization protocols. This memo provides information for the Internet community.

2903 de Laat Aug 2000 Generic AAA Architecture

This memo proposes an Authentication, Authorization, Accounting (AAA) architecture that would incorporate a generic AAA server along with an application interface to a set of Application Specific Modules that could perform application specific AAA functions. This memo defines an Experimental Protocol for the Internet community.

2902 Deering Aug 2000 Overview of the 1998 IAB
Routing Workshop

This document is an overview of a Routing workshop held by the Internet Architecture Board (IAB) during March 25-27, 1998. This memo provides information for the Internet community.

2901 Wenzel Aug 2000 Guide to Administrative
Procedures of the Internet
Infrastructure

This document describes the administrative procedures for networks seeking to connect to the global Internet. This memo provides information for the Internet community.

2900 Reynolds Aug 2001 Internet Official Protocol
Standards

This memo contains a snapshot of the state of standardization of protocols used in the Internet as of July 17, 2001. It lists official protocol standards and Best Current Practice RFCs; it is not a complete index to the RFC series. This memo is an Internet Standard.

Security Considerations

This memo does not affect the technical security of the Internet, but may cite important security specifications.

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