

Network Working Group  
Request for Comments: 3199  
Category: Informational

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ISI  
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## Request for Comments Summary

RFC Numbers 3100-3199

### Status of This Memo

This RFC is a slightly annotated list of the 100 RFCs from RFC 3100 through RFCs 3199. 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
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3199	Ginoza	Feb 2003	Request for Comments Summary

This memo.

3198 Westerinen Nov 2001 Terminology for Policy-Based Management

This document is a glossary of policy-related terms. It provides abbreviations, explanations, and recommendations for use of these terms. The intent is to improve the comprehensibility and consistency of writing that deals with network policy, particularly Internet Standards documents (ISDs). This memo provides information for the Internet community.

3197 Austein Nov 2001 Applicability Statement for DNS MIB Extensions

This document explains why, after more than six years as proposed standards, the DNS Server and Resolver MIB extensions were never deployed, and recommends retiring these MIB extensions by moving them to Historical status. This memo provides information for the Internet community.

3196 Hastings Nov 2001 Internet Printing Protocol/1.1: Implementor's Guide

This document is one of a set of documents, which together describe all aspects of a new Internet Printing Protocol (IPP). This memo provides information for the Internet community.

3195 New Nov 2001 Reliable Delivery for syslog

The BSD Syslog Protocol describes a number of service options related to propagating event messages. This memo describes two mappings of the syslog protocol to TCP connections, both useful for reliable delivery of event messages. [STANDARDS TRACK]

3194 Durand Nov 2001 The Host-Density Ratio for Address Assignment Efficiency: An update on the H ratio

This document provides an update on the "H ratio" defined in RFC 1715. It defines a new ratio which the authors claim is easier to understand. This memo provides information for the Internet community.

3193 Patel Nov 2001 Securing L2TP using IPsec

This document discusses how L2TP (Layer Two Tunneling Protocol) may utilize IPsec to provide for tunnel authentication, privacy protection, integrity checking and replay protection. Both the voluntary and compulsory tunneling cases are discussed. [STANDARDS TRACK]

3192 Allocchio Oct 2001 Minimal FAX address format in Internet Mail

This memo describes a simple method of encoding Global Switched Telephone Network (GSTN) addresses of facsimile devices in the local-part of Internet email addresses. [STANDARDS TRACK]

3191 Allocchio Oct 2001 Minimal GSTN address format in Internet Mail

This memo describes a simple method of encoding Global Switched Telephone Network (GSTN) addresses (commonly called "telephone numbers") in the local-part of Internet email addresses, along with an extension mechanism to allow encoding of additional standard attributes needed for email gateways to GSTN-based services. [STANDARDS TRACK]

3190 Kobayashi Jan 2002 RTP Payload Format for 12-bit DAT Audio and 20- and 24-bit Linear Sampled Audio

This document specifies a packetization scheme for encapsulating 12-bit nonlinear, 20-bit linear, and 24-bit linear audio data streams using the Real-time Transport Protocol (RTP). This document also specifies the format of a Session Description Protocol (SDP) parameter to indicate when audio data is preemphasized before sampling. The parameter may be used with other audio payload formats, in particular L16 (16-bit linear). [STANDARDS TRACK]

3189 Kobayashi Jan 2002 RTP Payload Format for DV (IEC 61834) Video

This document specifies the packetization scheme for encapsulating the compressed digital video data streams commonly known as "DV" into a payload format for the Real-Time Transport Protocol (RTP). [STANDARDS TRACK]





3179 Schoenwaelder Oct 2001 Script MIB Extensibility  
Protocol Version 1.1

The Script MIB extensibility protocol (SMX) defined in this memo separates language specific runtime systems from language independent Script MIB implementations. The IETF Script MIB defines an interface for the delegation of management functions based on the Internet management framework. This memo defines an Experimental Protocol for the Internet community.

3178 Hagino Oct 2001 IPv6 Multihoming Support at  
Site Exit Routers

The document describes a mechanism for basic IPv6 multihoming support, and its operational requirements. This memo provides information for the Internet community.

3177 IAB Sep 2001 IAB/IESG Recommendations on  
IPv6 Address Allocations to  
Sites

This document provides recommendations to the addressing registries (APNIC, ARIN and RIPE-NCC) on policies for assigning IPv6 address blocks to end sites. In particular, it recommends the assignment of /48 in the general case, /64 when it is known that one and only one subnet is needed and /128 when it is absolutely known that one and only one device is connecting.

3176 Phaal Sep 2001 InMon Corporation's sFlow: A  
Method for Monitoring Traffic  
in Switched and Routed Networks

This memo defines InMon Corporation's sFlow system. sFlow is a technology for monitoring traffic in data networks containing switches and routers. In particular, it defines the sampling mechanisms implemented in an sFlow Agent for monitoring traffic, the sFlow MIB for controlling the sFlow Agent, and the format of sample data used by the sFlow Agent when forwarding data to a central data collector. This memo provides information for the Internet community.

3175 Baker Sep 2001 Aggregation of RSVP for IPv4  
and IPv6 Reservations

This document describes the use of a single RSVP (Resource ReSerVation Protocol) reservation to aggregate other RSVP reservations across a transit routing region, in a manner conceptually similar to the use of Virtual Paths in an ATM (Asynchronous Transfer Mode) network. It proposes a way to dynamically create the aggregate reservation, classify the traffic for which the aggregate reservation applies, determine how much bandwidth is needed to achieve the requirement, and recover the bandwidth when the sub-reservations are no longer required. It also contains recommendations concerning algorithms and policies for predictive reservations. [STANDARDS TRACK]

3174 Eastlake Sep 2001 US Secure Hash Algorithm 1  
(SHA1)

The purpose of this document is to make the SHA-1 (Secure Hash Algorithm 1) hash algorithm conveniently available to the Internet community. This memo provides information for the Internet community.

3173 Shacham Sep 2001 IP Payload Compression  
Protocol (IPComp)

This document describes a protocol intended to provide lossless compression for Internet Protocol datagrams in an Internet environment. [STANDARDS TRACK]

3172 Huston Sep 2001 Management Guidelines &  
Operational Requirements for  
the Address and Routing  
Parameter Area Domain ("arpa")

This memo describes the management and operational requirements for the address and routing parameter area ("arpa") domain. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

3171 Albanna Aug 2001 IANA Guidelines for IPv4  
Multicast Address Assignments

This memo provides guidance for the Internet Assigned Numbers Authority (IANA) in assigning IPv4 multicast addresses. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

3170 Quinn Sep 2001 IP Multicast Applications:  
Challenges and Solutions

This document describes the challenges involved with designing and implementing multicast applications. It is an introductory guide for application developers that highlights the unique considerations of multicast applications as compared to unicast applications. This memo provides information for the Internet community.

3169 Beadles Sep 2001 Criteria for Evaluating  
Network Access Server  
Protocols

This document defines requirements for protocols used by Network Access Servers (NAS). This memo provides information for the Internet community.

3168 Ramakrishnan Sep 2001 The Addition of Explicit  
Congestion Notification (ECN)  
to IP

This memo specifies the incorporation of ECN (Explicit Congestion Notification) to TCP and IP, including ECN's use of two bits in the IP header. [STANDARDS TRACK]

3167 Meyer Aug 2001 Request to Move RFC 1745 to  
Historic Status

RFC 1745, "BGP4/IDRP for IP---OSPF Interaction", describes technology which was never deployed in the public internet. This document requests that RFC 1745 be moved to Historic status. This memo provides information for the Internet community.

3166 Meyer Aug 2001 Request to Move RFC 1403 to  
Historic Status

RFC 1403, "BGP OSPF Interaction", describes technology which is no longer used. This document requests that RFC 1403 be moved to Historic status. This memo provides information for the Internet community.

3165 Levi Aug 2001 Definitions of Managed Objects  
for the Delegation of  
Management Scripts

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 a set of managed objects that allow the delegation of management scripts to distributed managers. [STANDARDS TRACK]

3164 Lonvick Aug 2001 The BSD syslog Protocol

This document describes the observed behavior of the syslog protocol. This memo provides information for the Internet community.

3163 Zuccherato Aug 2001 ISO/IEC 9798-3 Authentication  
SASL Mechanism

This document defines a SASL (Simple Authentication and Security Layer) authentication mechanism based on ISO/IEC 9798-3 and FIPS PUB 196 entity authentication. This memo defines an Experimental Protocol for the Internet community.

3162 Aboba Aug 2001 RADIUS and IPv6

This document specifies the operation of RADIUS (Remote Authentication Dial In User Service) when run over IPv6 as well as the RADIUS attributes used to support IPv6 network access. [STANDARDS TRACK]

3161 Adams Aug 2001 Internet X.509 Public Key  
Infrastructure Time-Stamp  
Protocol (TSP)

This document describes the format of a request sent to a Time Stamping Authority (TSA) and of the response that is returned. It also establishes several security-relevant requirements for TSA operation, with regards to processing requests to generate responses. [STANDARDS TRACK]

3160 Harris Aug 2001 The Tao of IETF - A Novice's  
Guide to the Internet  
Engineering Task Force

This document describes the inner workings of IETF meetings and Working Groups, discusses organizations related to the IETF, and introduces the standards process. This memo provides information for the Internet community.

3159 McCloghrie Aug 2001 Structure of Policy  
Provisioning Information  
(SPPI)

This document, the Structure of Policy Provisioning Information (SPPI), defines the adapted subset of SNMP's Structure of Management Information (SMI) used to write Policy Information Base (PIB) modules. [STANDARDS TRACK]

3158 Perkins Aug 2001 RTP Testing Strategies

This memo describes a possible testing strategy for RTP (real-time transport protocol) implementations. This memo provides information for the Internet community.

3157 Arsenault Aug 2001 Securely Available Credentials  
- Requirements

This document describes requirements to be placed on Securely Available Credentials (SACRED) protocols. This memo provides information for the Internet community.

3156 Elkins Aug 2001 MIME Security with OpenPGP

This document describes how the OpenPGP Message Format can be used to provide privacy and authentication using the Multipurpose Internet Mail Extensions (MIME) security content types described in RFC 1847.  
[STANDARDS TRACK]

3155 Dawkins Aug 2001 End-to-end Performance  
Implications of Links with  
Errors

This document discusses the specific TCP mechanisms that are problematic in environments with high uncorrected error rates, and discusses what can be done to mitigate the problems without introducing intermediate devices into the connection. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

3154 Kempf Aug 2001 Requirements and Functional  
Architecture for an IP Host  
Alerting Protocol

This document develops an architecture and a set of requirements needed to support alerting of hosts that are in dormant mode. The architecture and requirements are designed to guide development of an IP protocol for alerting dormant IP mobile hosts, commonly called paging. This memo provides information for the Internet community.

3153 Pazhyannur Aug 2001 PPP Multiplexing

This document describes a method to reduce the PPP (Point-to-Point Protocol) framing overhead used to transport small packets over slow links. [STANDARDS TRACK]

3152 Bush Aug 2001 Delegation of IP6.ARPA

This document discusses the need for delegation of the IP6.ARPA DNS zone, and specifies a plan for the technical operation thereof. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

3151 Walsh Aug 2001 A URN Namespace for Public Identifiers

This document describes a URN (Uniform Resource Name) namespace that is designed to allow Public Identifiers to be expressed in URI (Uniform Resource Identifiers) syntax. This memo provides information for the Internet community.

3150 Dawkins Jul 2001 End-to-end Performance Implications of Slow Links

This document makes performance-related recommendations for users of network paths that traverse "very low bit-rate" links. This document specifies an Internet Best Current Practices for the Internet Community, and requests discussion and suggestions for improvements.

3149 Srinath Sep 2001 MGCP Business Phone Packages

This document describes a collection of MGCP (Media Gateway Control Protocol) packages that can be used to take advantage of the feature keys and displays on digital business phones and IP-Phones. This memo provides information for the Internet community.

3148 Mathis Jul 2001 A Framework for Defining Empirical Bulk Transfer Capacity Metrics

This document defines a framework for standardizing multiple BTC (Bulk Transport Capacity) metrics that parallel the permitted transport diversity. This memo provides information for the Internet community.

3147 Christian Jul 2001 Generic Routing Encapsulation over CLNS Networks

This document proposes a method for transporting an arbitrary protocol over a CLNS (Connectionless Network Service) network using GRE (Generic Routing Encapsulation). This may then be used as a method to tunnel IPv4 or IPv6 over CLNS. This memo provides information for the Internet community.

3146 Fujisawa Oct 2001 Transmission of IPv6 Packets  
over IEEE 1394 Networks

This document describes the frame format for transmission of IPv6 packets and the method of forming IPv6 link-local addresses and statelessly autoconfigured addresses on IEEE1394 networks. [STANDARDS TRACK]

3145 Verma Jul 2001 L2TP Disconnect Cause  
Information

This document provides an extension to the Layer 2 Tunneling Protocol ("L2TP"), a mechanism for tunneling Point-to-Point Protocol (PPP) sessions. [STANDARDS TRACK]

3144 Romascanu Aug 2001 Remote Monitoring MIB  
Extensions for Interface  
Parameters Monitoring

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. The document proposes an extension to the Remote Monitoring MIB with a method of sorting the interfaces of a monitored device according to values of parameters specific to this interface. [STANDARDS TRACK]

3143 Cooper Jun 2001 Known HTTP Proxy/Caching  
Problems

This document catalogs a number of known problems with World Wide Web (WWW) (caching) proxies and cache servers. The goal of the document is to provide a discussion of the problems and proposed workarounds, and ultimately to improve conditions by illustrating problems. This memo provides information for the Internet community.

3142 Hagino Jun 2001 An IPv6-to-IPv4 Transport  
Relay Translator

The document describes an IPv6-to-IPv4 transport relay translator (TRT). This memo provides information for the Internet community.

3141 Hiller Jun 2001 CDMA2000 Wireless Data  
Requirements for AAA

This memo specifies cdma2000 wireless data AAA (Authentication, Authorization, Accounting) requirements associated with third generation wireless architecture that supports roaming among service providers for traditional PPP and Mobile IP services. This memo provides information for the Internet community.

3140 Black Jun 2001 Per Hop Behavior  
Identification Codes

This document defines a 16 bit encoding mechanism for the identification of differentiated services Per Hop Behaviors in protocol messages. It replaces RFC 2836. [STANDARDS TRACK]

3139 Sanchez Jun 2001 Requirements for Configuration  
Management of IP-based  
Networks

This memo discusses different approaches to configure networks and identifies a set of configuration management requirements for IP-based networks. This memo provides information for the Internet community.

3138 Meyer Jun 2001 Extended Assignments in 233/8

This memo provides describes the mapping of the GLOP addresses corresponding to the private AS space. This memo provides information for the Internet community.

3137 Retana Jun 2001 OSPF Stub Router Advertisement

This memo describes a backward-compatible technique that may be used by OSPF (Open Shortest Path First) implementations to advertise unavailability to forward transit traffic or to lower the preference level for the paths through such a router. This memo provides information for the Internet community.

3136 Slutsman Jun 2001 The SPIRITS Architecture

This document describes the architecture for supporting SPIRITS services, which are those originating in the PSTN (Public Switched Telephone Network) and necessitating the interactions between the PSTN and the Internet. This memo provides information for the Internet community.

3135 Border Jun 2001 Performance Enhancing Proxies  
Intended to Mitigate  
Link-Related Degradations

This document is a survey of Performance Enhancing Proxies (PEPs) often employed to improve degraded TCP performance caused by characteristics of specific link environments, for example, in satellite, wireless WAN, and wireless LAN environments. This memo provides information for the Internet community.

3134 Dunn Jun 2001 Terminology for ATM ABR  
Benchmarking

This memo discusses and defines terms associated with performance benchmarking tests and the results of these tests in the context of Asynchronous Transfer Mode (ATM) based switching devices supporting ABR (Available Bit Rate). This memo provides information for the Internet community.

3133 Dunn Jun 2001 Terminology for Frame Relay  
Benchmarking

This memo discusses and defines terms associated with performance benchmarking tests and the results of these tests in the context of frame relay switching devices. This memo provides information for the Internet community.

3132 Kempf Jun 2001 Dormant Mode Host Alerting  
("IP Paging") Problem  
Statement

This memo describes paging, assesses the need for IP paging, and presents a list of recommendations for Seamoby charter items regarding work on paging. This memo provides information for the Internet community.

3131 Bradner Jun 2001 3GPP2-IETF Standardization  
Collaboration

This document describes the standardization collaboration between 3GPP2 and IETF. This memo provides information for the Internet community.

3130 Lewis Jun 2001 Notes from the  
State-Of-The-Technology:  
DNSSEC

This is a memo of a DNSSEC (Domain Name System Security Extensions) status meeting. This memo provides information for the Internet community.

3129 Thomas Jun 2001 Requirements for Kerberized  
Internet Negotiation of Keys

The goal of this document is to produce a streamlined, fast, easily managed, and cryptographically sound protocol without requiring public key. This memo provides information for the Internet community.

3128 Miller Jun 2001 Protection Against a Variant  
of the Tiny Fragment Attack

This document discusses how RFC 1858 compliant filters can be vulnerable to a variant of the "Tiny Fragment Attack" described in section 3.1 of the RFC. This document describes the attack and recommends corrective action. This memo provides information for the Internet community.



3123 Koch Jun 2001 A DNS RR Type for Lists of  
Address Prefixes (APL RR)

The Domain Name System (DNS) is primarily used to translate domain names into IPv4 addresses using A RRs (Resource Records). Several approaches exist to describe networks or address ranges. This document specifies a new DNS RR type "APL" for address prefix lists. This memo defines an Experimental Protocol for the Internet community.

3122 Conta Jun 2001 Extensions to IPv6 Neighbor  
Discovery for Inverse  
Discovery Specification

This memo describes extensions to the IPv6 Neighbor Discovery that allow a node to determine and advertise an IPv6 address corresponding to a given link-layer address. [STANDARDS TRACK]

3121 Best Jun 2001 A URN Namespace for OASIS

This document describes a URN (Uniform Resource Name) namespace that is engineered by the Organization for the Advancement of Structured Information Standards (OASIS) for naming persistent resources published by OASIS (such as OASIS Standards, XML (Extensible Markup Language) Document Type Definitions, XML Schemas, Namespaces, Stylesheets, and other documents). This memo provides information for the Internet community.

3120 Best Jun 2001 A URN Namespace for XML.org

This document describes a URN (Uniform Resource Name) namespace that is engineered by the Organization for the Advancement of Structured Information Standards (OASIS) for naming persistent resources stored in the XML.org repository (such as XML (Extensible Markup Language) Document Type Definitions, XML Schemas, Namespaces, Stylesheets, and other documents). This memo provides information for the Internet community.



3114 Nicolls May 2002 Implementing Company  
Classification Policy with the  
S/MIME Security Label

This document discusses how company security policy for data classification can be mapped to the S/MIME security label. Actual policies from three companies provide worked examples. This memo provides information for the Internet community.

3113 Rosenbrock Jun 2001 3GPP-IETF Standardization  
Collaboration

This document describes the standardization collaboration between 3GPP and IETF. This memo provides information for the Internet community.

3112 Zeilenga May 2001 LDAP Authentication Password  
Schema

This document describes schema in support of user/password authentication in a LDAP (Lightweight Directory Access Protocol) directory including the authPassword attribute type. This memo provides information for the Internet community.

3111 Guttman May 2001 Service Location Protocol  
Modifications for IPv6

This document defines the Service Location Protocol Version 2's (SLPv2) use over IPv6 networks. Since this protocol relies on UDP and TCP, the changes to support its use over IPv6 are minor. [STANDARDS TRACK]

3110 Eastlake 3rd May 2001 RSA/SHA-1 SIGs and RSA KEYS in  
the Domain Name System (DNS)

This document describes how to produce RSA/SHA1 SIG resource records (RRs) in Section 3 and, so as to completely replace RFC 2537, describes how to produce RSA KEY RRs in Section 2. [STANDARDS TRACK]

3109 Braden May 2001 Request to Move STD 39 to  
Historic Status

This memo changes the status of STD 39, BBN Report 1822, "Specification of the Interconnection of a Host and an IMP", from Standard to Historic. This memo provides information for the Internet community.

3108 Kumar May 2001 Conventions for the use of the Session Description Protocol (SDP) for ATM Bearer Connections

This document describes conventions for using the Session Description Protocol (SDP) described in RFC 2327 for controlling ATM Bearer Connections, and any associated ATM Adaptation Layer (AAL). The AALs addressed are Type 1, Type 2 and Type 5. [STANDARDS TRACK]

3107 Rekhter May 2001 Carrying Label Information in BGP-4

This document specifies the way in which the label mapping information for a particular route is piggybacked in the same Border Gateway Protocol (BGP) Update message that is used to distribute the route itself. [STANDARDS TRACK]

3106 Eastlake Apr 2001 ECML v1.1: Field Specifications for E-Commerce

Customers are frequently required to enter substantial amounts of information at an Internet merchant site in order to complete a purchase or other transaction, especially the first time they go there. A standard set of information fields is defined as the first version of an Electronic Commerce Modeling Language (ECML) so that this task can be more easily automated, for example by wallet software that could fill in fields. Even for the manual data entry case, customers will be less confused by varying merchant sites if a substantial number adopt these standard fields. In addition, some fields are defined for merchant to consumer communication. This memo provides information for the Internet community.

3105 Kempf Oct 2001 Finding an RSIP Server with SLP

This document contains an SLP service type template that describes the advertisements made by RSIP servers for their services. This memo defines an Experimental Protocol for the Internet community.

3104 Montenegro Oct 2001 RSIP Support for End-to-end  
IPsec

This document proposes mechanisms that enable Realm Specific IP (RSIP) to handle end-to-end IPsec (IP Security). This memo defines an Experimental Protocol for the Internet community.

3103 Borella Oct 2001 Realm Specific IP: Protocol  
Specification

This document presents a protocol with which to implement Realm Specific IP (RSIP). The protocol defined herein allows negotiation of resources between an RSIP host and gateway, so that the host can lease some of the gateway's addressing parameters in order to establish a global network presence. This protocol is designed to operate on the application layer and to use its own TCP or UDP port. In particular, the protocol allows a gateway to allocate addressing and control parameters to a host such that a flow policy can be enforced at the gateway. This memo defines an Experimental Protocol for the Internet community.

3102 Borella Oct 2001 Realm Specific IP: Framework

This document examines the general framework of Realm Specific IP (RSIP). RSIP is intended as an alternative to NAT in which the end-to-end integrity of packets is maintained. We focus on implementation issues, deployment scenarios, and interaction with other layer-three protocols. This memo defines an Experimental Protocol for the Internet community.

3101 Murphy Jan 2003 The OSPF Not-So-Stubby Area  
(NSSA) Option

This memo documents an optional type of Open Shortest Path First (OSPF) area that is somewhat humorously referred to as a "not-so-stubby" area (or NSSA). NSSAs are similar to the existing OSPF stub area configuration option but have the additional capability of importing AS external routes in a limited fashion.

The OSPF NSSA Option was originally defined in RFC 1587. The functional differences between this memo and RFC 1587 are explained in Appendix F. All differences, while expanding capability, are backward-compatible in nature. Implementations of this memo and of RFC 1587 will interoperate. [STANDARDS TRACK]

3100

Never Issued

RFC 3100 was never issued.

Security Considerations

Security issues are not discussed in this memo.

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