

# Voice–Related RFCs

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## Introduction

This document consists of a comprehensive list of all the Voice–related RFCs, such as VoIP, QoS, and related topics. Refer to Internet Engineering Task Force (IETF) for information on the RFCs.

## Prerequisites

## Requirements

There are no specific requirements for this document.

## Components Used

This document is not restricted to specific software and hardware versions.

## Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

## Voice and Video RFCs

This is a complete list of Voice and Video RFCs:

- 2029 RTP Payload Format of Sun's CellB Video Encoding
- 2032 RTP Payload Format for H.261 Video Streams
- 2190 RTP Payload Format for H.263 Video Stream
- 2198 RTP Payload Format for Redundant Audio Data
- 2250 RTP Payload Format for MPEG1/MPEG2 Video
- 2326 Real Time Streaming Protocol (RTSP)\*
- 2423 VPIM Voice Message MIME Sub–type Registration
- 2327 SDP: Session Description Protocol\*
- 2343 RTP Payload Format for Bundled MPEG
- 2354 Options for Repair of Streaming Media
- 2429 RTP Payload Format for the 1998 Version of ITU–T Rec. H.263 Video (H.263+)
- 2431 RTP Payload Format for BT.656 Video Encoding
- 2435 RTP Payload Format for J–PEG Compressed Video

- 2542 Terminology Goals for Internet Fax\*
- 2658 RTP Payload Format for PureVoice (tm) Audio
- 2719 Framework Architecture for Signalling Transport\*
- 2733 An RTP Payload Format for Generic Forward Error Correction
- 2736 Guidelines for Writers of RTP Payload Format Specifications\*
- 2793 RTP Payload Format for Text Conversation
- 2805 MGCP Architecture and Requirements\*
- 2833 RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals\*
- 2848 The PINT Service Protocol: Extensions to SIP and SDP for IP Access to Telephone Call Services\*
- 2862 RTP Payload Format for Real-time Pointers
- 2871 A Framework for Telephony Routing over IP\*
- 2879 Content Feature Schema for Internet Fax (V2)\*
- 2880 Internet Fax T.30 Feature Mapping\*
- 2897 Proposal for an MGCP Advanced Audio Package\*
- 2959 Real-Time Transport Protocol Management Information Base (RTP MIB)\*
- 2960 Stream Control Transmission Protocol
- 2974 Session Announcement Protocol\*
- 2976 The SIP INFO Method\*
- 3016 RTP Payload Format for MPEG-4 Audio/Visual Streams
- 3261 SIP: Session Initiation Protocol\*
- 3265 Session Initiation Protocol (SIP)-Specific Event Notification\*
- 3309 Stream Control Transmission Protocol (SCTP) Checksum Change
- 3435 Media Gateway Control Protocol (MGCP) v1\*
- 3550 RTP A Transport Protocol for Real-Time Applications\*
- 3551 RTP Profile for Audio and Video Conferences with Minimal Control
- 3555 MIME Type Registration of RTP Payload Formats
- 3556 Session Description Protocol (SDP) Bandwidth Modifiers for RTP Control Protocol (RTCP) Bandwidth
- 3557 RTP Payload Format for European Telecommunications Standards Institute (ETSI) European Standard ES 201 108 Distributed Speech Recognition Encoding
- 3558 RTP Payload Format for Enhanced Variable Rate Codecs (EVRC) and Selectable Mode Vocoders (SMV)
- 3603 Private Session Initiation Protocol (SIP) Proxy-to-Proxy Extensions for Supporting the PacketCable Distributed Call Signaling Architecture
- 3605 Real Time Control Protocol (RTCP) Attribute in Session Description Protocol (SDP)
- 3611 RTP Control Protocol Extended Reports (RTCP XR)
- 3660 Basic Media Gateway Control Protocol (MGCP) Packages\*
- 3661 Media Gateway Control Protocol (MGCP) Return Code Usage\*
- 3663 Domain Administrative Data in Lightweight Directory Access Protocol (LDAP)\*
- 3665 Session Initiation Protocol (SIP) Basic Call Flow Examples\*
- 3666 Session Initiation Protocol (SIP) Public Switched Telephone Network (PSTN) Call Flows
- 3673 Lightweight Directory Access Protocol version 3 (LDAPv3)\*
- 3674 Feature Discovery in Lightweight Directory Access Protocol (LDAP)\*
- 3680 A Session Initiation Protocol (SIP) Event Package for Registrations\*
- 3687 Lightweight Directory Access Protocol (LDAP) and X.500 Component Matching Rules
- 3690 IP Telephony Requirements for Emergency Telecommunication Service (ETS)
- 3698 Lightweight Directory Access Protocol (LDAP): Additional Matching Rules
- 3702 Authentication, Authorization, and Accounting Requirements for the Session Initiation Protocol (SIP)\*
- 3703 Policy Core Lightweight Directory Access Protocol (LDAP) Schema
- 3761 The E.164 to Uniform Resource Identifiers (URI) Dynamic Delegation Discovery System (DDDS) Application (ENUM)
- 3762 Telephone Number Mapping (ENUM) Service Registration for H.323

- 3764 Enumservice Registration for Session Initiation Protocol (SIP) Addresses-of-Record\*
- 3771 The Lightweight Directory Access Protocol (LDAP) Intermediate Response Message
- 3773 High-Level Requirements for Internet Voice Mail
- 3801 Voice Profile for Internet Mail – Version 2 (VPIMv2)
- 3802 Toll Quality Voice – 32 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM) MIME Sub-type Registration
- 3804 Voice Profile for Internet Mail (VPIM) Addressing
- 3824 Using E.164 Numbers with the Session Initiation Protocol (SIP)\*
- 3939 Calling Line Identification for Voice Mail Messages
- 3991 Media Gateway Control Protocol (MGCP) Redirect and Reset Package
- 4024 Voice Messaging Client Behaviour
- 4237 Voice Messaging Directory Service
- 4238 Voice Message Routing Service
- 4239 Internet Voice Messaging (IVM)
- 4458 Session Initiation Protocol (SIP) URIs for Applications, such as Voicemail and Interactive Voice Response (IVR)

## Quality of Service RFCs

This is a list of RFCs relevant to QoS:

- 1046 Queuing Algorithm to Provide Type-Of-Service (ToS) for IP links
- 1102 Policy Routing in Internet protocols\*
- 1104 Models of policy based routing
- 1363 A Proposed Flow Specification
- 1821 Integration of Real-time Services in an IP-ATM Network Architecture\*
- 2123 Traffic Flow Measurement: Experiences with NeTraMet
- 2205 Resource ReSerVation Protocol (RSVP) – Version 1 Functional Specification\*
- 2206 RSVP Management Information Base (MIB) using SMIV2
- 2207 RSVP Extensions for IPSec Data Flows
- 2208 Resource ReSerVation Protocol (RSVP) – Version 1 Applicability Statement; Some Guidelines on Deployment\*
- 2209 Resource ReSerVation Protocol (RSVP) – Version 1 Message Processing Rules
- 2210 The Use of RSVP with IETF Integrated Services\*
- 2212 Specification of Guaranteed Quality of Service (QoS)
- 2215 General Characterization Parameters for Integrated Services Network Elements\*
- 2216 Network Element Service Specification Template
- 2309 Recommendations on Queue Management and Congestion Avoidance in the Internet
- 2330 Framework for IP Performance Metrics
- 2379 RSVP over ATM Implementation Guidelines
- 2380 RSVP over ATM Implementation Requirements
- 2382 A framework for Integrated Services and RSVP over ATM\*
- 2386 A Framework for QoS-based Routing in the Internet
- 2430 A Provider Architecture for Differentiated Services and Traffic Engineering (PASTE)
- 2474 Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers
- 2475 An Architecture for Differentiated Service\*
- 2490 A Simulation Model for IP Multicast with RSVP
- 2676 QoS Routing Mechanisms and OSPF Extensions
- 2720 Traffic Flow Measurement: Meter MIB
- 2721 RTFM: Applicability Statement
- 2722 Traffic Flow Measurement: Architecture
- 2723 SRL: A Language for Describing Traffic Flows and Specifying Actions for Flow Groups
- 2724 RTFM: New Attributes for Traffic Flow Measurement

- 2745 RSVP Diagnostic Messages\*
- 2746 RSVP Operation Over IP Tunnels
- 2747 RSVP Cryptographic Authentication
- 2748 The COPS (Common Open Policy Service) Protocol\*
- 2749 COPS Usage for RSVP\* 2750 RSVP Extensions for Policy Control\*
- 2750 RSVP Extensions for Policy Control\*
- 2753 A Framework for Policy-based Admission Control
- 2914 Congestion Control Principles 2990 Next Steps for the IP QoS Architecture
- 2998 A Framework for Integrated Services Operation over Diffserv Networks\*
- 3006 Integrated Services in the Presence of Compressible Traffic Flows
- 3097 RSVP Cryptographic Authentication — Updated Message Type Value
- 3168 The Addition of Explicit Congestion Notification (ECN) to IP
- 3181 Signaled Preemption Priority Policy Element
- 3182 Identity Representation for RSVP\*
- 3260 New Terminology and Clarifications for Diffserv
- 3644 Policy Quality of Service (QoS) Information Model
- 3670 Information Model for Describing Network Device QoS Datapath Mechanisms
- 4323 Data Over Cable System Interface Specification Quality of Service Management Information Base (DOCSIS-QoS MIB)

## Serial (PPP, ISDN, Compression) RFCs

This is a list of RFCs relevant to serial connections:

- 1144 Compressing TCP/IP Headers for Low-speed Serial Links\*
- 1332 The PPP Internet Protocol; Control Protocol (IPCP)
- 1547 Requirements for an Internet Standard Point-to-Point Protocol\*
- 1570 PPP LCP Extensions
- 1618 PPP over ISDN\*
- 1661 The Point-to-Point Protocol (PPP)\*
- 1662 PPP in HDLC-like Framing\*
- 1663 PPP Reliable Transmission
- 1841 PPP Network Control Protocol for LAN Extension
- 1877 PPP Internet Protocol Control Protocol (IPCP) Extensions for Name Server Addresses
- 1915 Variance for the PPP Connection Control Protocol and The PPP Encryption Control Protocol
- 1962 PPP Compression Control Protocol (CCP)
- 1963 PPP Serial Data Transport Protocol (SDTP)
- 1967 PPP LZS-DCP Compression Protocol (LZS-DCP)
- 1968 PPP Encryption Control Protocol (ECP)
- 1989 PPP Link Quality Monitoring
- 1990 The PPP Multilink Protocol (MP)
- 1993 PPP Gandalf FZA Compression Protocol
- 1994 PPP Challenge Handshake Authentication Protocol (CHAP)
- 2043 The PPP SNA Control Protocol (SNACP)
- 2097 The PPP NetBIOS Frames Control Protocol (NBFCP)
- 2125 The PPP Bandwidth Allocation Protocol (BAP)/ The PPP Bandwidth Allocation Control Protocol (BACP)
- 2127 ISDN Management Information Base (MIB) using SMIV2\*
- 2153 PPP Vendor Extensions
- 2363 PPP over FUNI
- 2364 PPP over AAL5
- 2419 The PPP DES Encryption Protocol, Version 2 (DESE-bis)
- 2420 The PPP Triple-DES Encryption Protocol (3DESE)

- 2433 Microsoft PPP CHAP Extensions
- 2484 PPP LCP Internationalization Configuration Option
- 2508 Compressing IP/UDP/RTP Headers for Low-speed Serial Links\*
- 2516 A Method for Transmitting PPP Over Ethernet (PPPoE)
- 2615 PPP over SONET/SDH
- 2686 The Multi-Class Extension to Multi-link PPP\*
- 2687 PPP in a Real-time Oriented HDLC-like Framing\*
- 2688 Integrated Services Mappings for Low-speed Networks\*
- 2689 Providing Integrated Services over Low-bitrate links\*
- 2701 Nortel Networks Multi-link Multi-node PPP Bundle Discovery Protocol
- 2716 PPP EAP TLS Authentication Protocol
- 2759 Microsoft PPP CHAP Extensions, Version 2
- 2823 PPP Over Simple Data Link (SDL) using SONET/SDH with ATM-like Framing
- 3021 Using 31-bit Prefixes on IPv4 Point-to-Point Links
- 3241 Robust Header Compression (ROHC) over PPP
- 3518 Point-to-Point Protocol (PPP) Bridging Control Protocol (BCP)
- 3544 IP Header Compression over PPP
- 3748 Extensible Authentication Protocol (EAP)
- 3770 Certificate Extensions and Attributes Supporting Authentication in Point-to-Point Protocol (PPP) and Wireless Local Area Networks (WLAN)
- 3772 Point-to-Point Protocol (PPP) Vendor Protocol
- 3817 Layer 2 Tunneling Protocol (L2TP) Active Discovery Relay for PPP over Ethernet (PPPoE)
- 3818 IANA Considerations for the Point-to-Point Protocol (PPP)
- 3544 IP Header Compression over PPP
- 3578 Mapping of Integrated Services Digital Network (ISDN) User Part (ISUP) Overlap Signalling to the Session Initiation Protocol (SIP)
- 4233 Integrated Services Digital Network (ISDN) Q.921-User Adaptation Layer
- 4334 Certificate Extensions and Attributes Supporting Authentication in Point-to-Point Protocol (PPP) and Wireless Local Area Networks (WLAN)
- 4638 Accommodating a Maximum Transit Unit/Maximum Receive Unit (MTU/MRU) Greater Than 1492 in the Point-to-Point Protocol over Ethernet (PPPoE)

\* Particularly relevant to IP Telephony technology.

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## Related Information

- **RFC Index**
  - **Internet Engineering Task Force (IETF)**
  - **Voice Technology Support**
  - **Voice and Unified Communications Support Resources**
  - **Recommended Reading: Troubleshooting Cisco IP Telephony**
  - **Technical Support & Documentation – Cisco Systems**
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