



Cisco 1700 Series Voice Features for Cisco IOS Release 12.3(2)XF

This document contains a list of Cisco IOS voice features that have been introduced in various Cisco IOS releases and that are now supported on the Cisco 1700 series platforms as part of Cisco IOS Release 12.3(2)XF.

Feature History for Cisco 1700 Series Voice Features for Cisco IOS Release 12.3(2)XF

Release	Modification
12.3(2)XF	Support was added to the Cisco 1721, Cisco 1751, Cisco 1751-V, and Cisco 1760 platforms.

Finding Support Information for Platforms and Cisco IOS Software Images

Use Cisco Feature Navigator to find information about platform support and Cisco IOS software image support. Access Cisco Feature Navigator at <http://www.cisco.com/go/fn>. You must have an account on Cisco.com. If you do not have an account or have forgotten your username or password, click **Cancel** at the login dialog box and follow the instructions that appear.

Contents

- [Prerequisites for Voice Configuration, page 2](#)
- [Information About Cisco 1700 Series Voice Features for Cisco IOS Release 12.3\(2\)XF, page 2](#)
- [Additional References, page 3](#)
- [Glossary, page 5](#)



Corporate Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Copyright © 2003 Cisco Systems, Inc. All rights reserved.

Prerequisites for Voice Configuration

Software Configuration

For specific software configuration information for the Cisco 1700 series, refer to the following document:

- [Cisco 1700 Series Router Software Configuration Guide](#)

Hardware Configuration

For specific hardware configuration information for the Cisco 1700 series, refer to the following documents:

- [Cisco 1700 Series Routers](#) documentation index
- [Configuration Notes for Cisco 1700 Series Routers](#)

Information About Cisco 1700 Series Voice Features for Cisco IOS Release 12.3(2)XF

The following section contains information about VoIP features on the Cisco 1700 series:

- [Supported Voice Features for the Cisco 1700 Series in Cisco IOS Release 12.3\(2\)XF](#), page 2

Supported Voice Features for the Cisco 1700 Series in Cisco IOS Release 12.3(2)XF

The following Cisco IOS VoIP features are supported on the Cisco 1700 series platforms for Cisco IOS Release 12.3(2)XF:

- [SIP Call Transfer and Call Forwarding](#), page 2
- [H.323v4: Enhanced Call Usage Reporting](#), page 3
- [H.323v4 Gateway Zone Prefix Registration Enhancements](#), page 3

SIP Call Transfer and Call Forwarding

This feature introduces the ability of Session Initiation Protocol (SIP) gateways to initiate blind, or attended, call transfers. Release Link Trunking (RLT) functionality is also added. With RLT, SIP blind call transfers can now be triggered by channel-associated signaling (CAS) trunk signaling. This feature also implements SIP support of call forwarding requests from a Cisco IOS gateway.

Refer to the [Cisco IOS SIP Configuration Guide](#) for more information about this feature:

http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/vvfax_c/calle_c/sip_c/sip1_c/index.htm

H.323v4: Enhanced Call Usage Reporting

This feature provides H.323v4 enhancements that provide standards-based call usage reporting to the gatekeeper from an H.323 gateway. This information is used by the gatekeeper to generate call detail records (CDRs).

Refer to the following documents:

- [Cisco IOS Call Control Technology](http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/vcl.htm) section in the [Cisco IOS Voice Configuration Library](#)
<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/vcl.htm>
- [VoIP Gateway Trunk and Carrier Based Routing Enhancements](http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122t/122t11/ftgwrepgh.htm)
<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122t/122t11/ftgwrepgh.htm>
- [VoIP Gatekeeper Trunk and Carrier Based Routing Enhancements](http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122t/122t11/ftgkrenb.htm)
<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122t/122t11/ftgkrenb.htm>

H.323v4 Gateway Zone Prefix Registration Enhancements

This feature provides support for two capabilities included in H.323, version 4: additive registration and dynamic zone prefix registration. Additive registration allows a gateway to add to or modify a list of aliases contained in a previous registration without first unregistering from the gatekeeper. Dynamic zone prefix registration allows a gateway to register actual PSTN destinations served by the gateway with its gatekeeper.

Refer to the following documents:

- [Cisco IOS Call Control Technology](http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/vcl.htm) section in the [Cisco IOS Voice Configuration Library](#)
<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123cgcr/vcl.htm>
- [H.323v4 Gateway Zone Prefix Registration Enhancements](http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122t/122t15/ftgwzpre.htm)
<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122t/122t15/ftgwzpre.htm>

Additional References

The following sections provide references related to Cisco 1700 series voice features for Cisco IOS Release 12.3(2)XF:

- [Related Documents, page 3](#)
- [MIBs, page 4](#)
- [Technical Assistance, page 4](#)

Related Documents

Related Topic	Document Title
Information about the Cisco 1700	Cisco 1700 Series Routers documentation index
How to configure the Cisco 1700	Cisco 1700 Series Router Software Configuration Guide Configuration Notes for Cisco 1700 Series Routers

Additional References

Related Topic	Document Title
How to use Cisco IOS voice commands	<i>Cisco IOS Voice Command Reference, Release 12.3</i>
How to configure features that use Cisco IOS voice	<i>Cisco IOS Voice Configuration Library, Release 12.3</i>
Information about additive registration and dynamic zone prefix registration	<i>H.323v4 Gateway Zone Prefix Registration Enhancements</i>
How to initiate blind, or attended, call transfers	<i>SIP Call Transfer and Call Forwarding Supplementary Services</i>
VoIP gatekeeper and gateway trunk and carrier based routing enhancements	<i>VoIP Gatekeeper Trunk and Carrier Based Routing Enhancements</i> <i>VoIP Gateway Trunk and Carrier Based Routing Enhancements</i>

MIBs

MIBs	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
Technical Assistance Center (TAC) home page, containing 30,000 pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	http://www.cisco.com/public/support/tac/home.shtml

Glossary

CAS—channel-associated signaling.

CDR—call detail record.

PSTN—public switched telephone network.

RLT—Release Link Trunking.

SIP—Session Initiation Protocol.

VoIP—Voice over IP. The capability to carry normal telephony-style voice over an IP-based internet with POTS-like functionality, reliability, and voice quality. VoIP enables a router to carry voice traffic (for example, telephone calls and faxes) over an IP network. In VoIP, the DSP segments the voice signal into frames, which are then coupled in groups of two and stored in voice packets. These voice packets are transported using IP in compliance with ITU-T specification H.323.

**Note**

For terms not included in this glossary, refer to *Internetworking Terms and Acronyms* at <http://www.cisco.com/univercd/cc/td/doc/cisintwk/ita/index.htm>.

CCIP, CCSP, the Cisco Arrow logo, the Cisco *Powered* Network mark, Cisco Unity, Follow Me Browsing, FormShare, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherSwitch, Fast Step, GigaStack, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, MGX, MICA, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, RateMUX, Registrar, ScriptShare, SlideCast, SMARTnet, StrataView Plus, Stratm, SwitchProbe, TeleRouter, The Fastest Way to Increase Your Internet Quotient, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0304R)

Copyright © 2003 Cisco Systems, Inc. All rights reserved.

