



## Cisco IOS H.323 Feature Roadmap

This guide collects together in one place information about Cisco IOS voice features having to do with the H.323 standard for sending and receiving audio, video, and data on an IP-based internetwork.

This first chapter of the guide is a feature roadmap. It describes how to access Cisco Feature Navigator and lists H.323 features by Cisco IOS release.



### Note

For information about the full set of Cisco IOS voice features, see the entire Cisco IOS Voice Configuration Library—including library preface, glossary, and other documents—at [http://www.cisco.com/en/US/docs/ios/12\\_3/vvf\\_c/cisco\\_ios\\_voice\\_configuration\\_library\\_glossary/vcl.htm](http://www.cisco.com/en/US/docs/ios/12_3/vvf_c/cisco_ios_voice_configuration_library_glossary/vcl.htm)

## 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.

## Cisco IOS H.323 Feature List

**Table 1** lists H.323 features by Cisco IOS release. Features that are introduced in a particular release are available in that and subsequent releases.

**Table 1** *H.323 Features by Cisco IOS Release*

Release	Features Introduced <sup>1</sup>	Feature Description	Feature Documentation
12.4(4)XC	H.323 VoIP Call Preservation Enhancements for WAN Link Failures	Sustains connectivity for H.323 topologies where signaling is handled by an entity that is different from the other endpoint,	<a href="#">“Configuring H.323 VoIP Call Preservation Enhancements for WAN Link Failures” section on page 93 of this guide</a>



**Table 1** H.323 Features by Cisco IOS Release (continued)

Release	Features Introduced <sup>1</sup>	Feature Description	Feature Documentation
12.4(4)T	No Retry on User Busy in an H.323 Gateway	Changes the default behavior of the gateway to not retry alternate endpoints when the release complete reason is user busy.	<a href="#">“Configuring No Retry on User Busy in an H.323 Gateway” section on page 74 of this guide</a>
12.3(11)T	Overlap Signaling on H.323 Terminating Gateways	Introduces overlap signaling.	<a href="#">“Configuring Overlap Signaling on H.323 Terminating Gateways” section on page 73 of this guide</a>
12.3(7)T	Signal ISDN B-Channel ID to Enable Application Control of Voice Gateway Trunks	Enables the H.323 gateway to access B-channel information for all H.323 calls.	<a href="#">“Configuring Signal ISDN B-Channel ID to Enable Application Control of Voice Gateway Trunks” section on page 90 of this guide</a>
12.3(1)	Gatekeeper Enhancements for Managed Voice Services	Adds call control based on available bandwidth and endpoint resources, allowing call rerouting to achieve higher call-completion rates and ensure QoS.	<a href="#">“Configuring H.323 Gatekeepers and Proxies” chapter of this guide</a>
	Gateway Codec Order Preservation and Shutdown Control	Adds a way to shutdown and restart SIP and H.323 gateways.	<a href="#">“Configuring Multiple Codecs” section on page 57 of this guide</a>
12.2(15)T	Gatekeeper Management Statistics	Provides statistics that can be used to monitor a network and troubleshoot network problems.	<a href="#">“Gatekeeper-Management Statistics” section on page 256 section of this guide</a>
	H.323v4 Gateway Zone Prefix Registration Enhancements	Reduces configuration complexity on the gatekeeper by enabling a gateway to report supported E.164 prefixes to the gatekeeper at registration.	<a href="#">“Configuring H.323 Version 4 Zone Prefix Registration” section on page 83 section of this guide</a>
	Tokenless Call Authorization	Creates a trusted access list to handle networks that have not implemented token-security features.	<a href="#">“Configuring Tokenless Call Authorization” section on page 163 section of this guide</a>
12.2(13)T	Multiservice IP-to-IP Gateway with Media Flow-Around	Adds media flow-around capability to the multiservice IP-to-IP gateway.	<a href="#">“Configuring H.323 Gateways” section on page 25 section of this guide</a>

**Table 1**      **H.323 Features by Cisco IOS Release (continued)**

Release	Features Introduced <sup>1</sup>	Feature Description	Feature Documentation
12.2(11)T	Basic Service Relationships (H.225 Annex-G)	Implements the minimal set of Annex G features needed to allow Cisco border elements to interoperate with other border elements.	<a href="#">“Configuring Annex G” section on page 61</a> of this guide
	Call Status Tracking Optimization	Reduces unnecessary messages between gatekeeper and the gateways, reducing network congestion and CPU over-utilization.	<a href="#">“Configuring the IRR Timer and Disable IRQ Requests” section on page 210</a> of this guide
	Configuring a Gatekeeper to Provide Nonavailability Information for Terminating Endpoints	Describes how to configure a gatekeeper to provide nonavailability information for terminating endpoints.	<a href="#">“Configuring Nonavailability Information for Terminating Endpoints” section on page 207</a> of this guide
	Gatekeeper Alias Registration and Address Resolution Enhancements	Allows configuration of multiple prefixes for a local zone and registration of an endpoint belonging to multiple zone prefixes.	<a href="#">“Configuring Gatekeeper Alias Registration and Address Resolution” section on page 134</a> of this guide
	Gatekeeper Endpoint Control Enhancements	Enable finer-grained control of gatekeeper registrations, and enable more capable and robust back-end server applications.	<a href="#">“Configuring Endpoints” section on page 199</a> of this guide
	Gatekeeper-to-Gatekeeper Authentication	Provides additional security for H.323 networks by introducing the ability to validate intradomain and interdomain gatekeeper-to-gatekeeper LRQ messages on a per-hop basis. When used in conjunction with per-call security using IZCT, protects network resources from attackers and prevents security holes.	<a href="#">“Configuring Security and Authentication” section on page 153</a> of this guide

Table 1 H.323 Features by Cisco IOS Release (continued)

Release	Features Introduced <sup>1</sup>	Feature Description	Feature Documentation
12.2(11)T	H.323 Dual Tone Multifrequency Relay Using Named Telephone Events	Enhances interoperability of Cisco gateways with equipment from other vendors by implementing H245v7 extensions to support RFC2833 in-band audio telephone events and in-band audio tones as well as support for asymmetrical RTP dynamic payload types.	<a href="#">“Configuring DTMF Relay” section on page 51</a> of this guide
	VoIP Gatekeeper Trunk and Carrier Based Routing Enhancements	Allows service providers to route traffic based on trunk and carrier rule sets.	<a href="#">VoIP Gatekeeper Trunk and Carrier Based Routing Enhancements</a>
	VoIP Gateway Trunk and Carrier Based Routing Enhancements	Addresses functional enhancements needed to improve routing on Cisco voice-over-packet platforms.	<a href="#">VoIP Gateway Trunk and Carrier Based Routing Enhancements</a>
	VoIP Outgoing Trunk Group ID and Carrier ID for Gateways and Gatekeepers	Provides alternate endpoints by adding trunk group labels (outgoing trunk group identification) to endpoints on H.323 VoIP networks.	<a href="#">“Configuring Border Elements” section on page 198</a> of this guide
12.2(8)T	Gatekeeper Transaction Message Protocol Interface Resiliency Enhancement	Provides enhanced call-routing and address-translation services.	<a href="#">“Configuring Gatekeeper Interaction with External Applications” section on page 169</a> of this guide
12.2(4)T	Cisco H.323 Scalability and Interoperability Enhancements for Gatekeepers	Upgrades the gatekeeper to comply with H.323 Version 3.	<a href="#">“Configuring H.323 Gateways” section on page 25</a> of this guide
	Cisco H.323 Scalability and Interoperability Enhancements for Gateways	Upgrades the gateway to comply with H.323 Version 3.	<a href="#">“Configuring H.323 Gateways” section on page 25</a> chapter of this guide
	H.323 Version 2 Enhancements	Upgrades Cisco IOS software to comply with the mandatory requirements and several optional features of the version 2 specification. Enhances the existing VoIP gateway and multimedia conference manager gatekeeper and proxy.	<a href="#">“Configuring Generic Transparency Descriptor for GKTMP Using SS7 Interconnect for Voice Gateways Version 2.0” section on page 77</a> of this guide
	Inter-Domain Gatekeeper Security Enhancement	Provides a secure mechanism for authenticating and authorizing H.323 calls from other administrative domains.	<a href="#">“Configuring E.164 Interzone Routing” section on page 165</a> of this guide
	Sequential Location Request Enhancement	Provides a potentially faster gatekeeper LRQ response when an LRJ response is received while the gatekeeper is sending sequential LRQs.	<a href="#">“Configuring Gatekeeper Zones” section on page 125</a> of this guide

**Table 1** H.323 Features by Cisco IOS Release (continued)

Release	Features Introduced <sup>1</sup>	Feature Description	Feature Documentation
12.2(2)T	Call Admission Control for H.323 VoIP Gateways	Provides call-admission control for voice gateways.	<a href="#">“Configuring Call Admission Control”</a> section on page 90 of this guide
	H.323 Call Redirection Enhancements	Indicates the nature of a call redirection and provides a nonstandard method for using the message to effect call transfer.	<a href="#">“H.323 Call Redirection”</a> section on page 248 of this guide
	High Performance Gatekeeper	Facilitates carrier-class reliability, security, and performance.	<a href="#">“Configuring H.323 Gatekeepers and Proxies”</a> section on page 121 of this guide
	NAT Support of H.323 v2 RAS	Allows embedded IP addresses to be inspected for potential address translation.	<a href="#">“Configuring an H.323 Proxy Server”</a> section on page 178 of this guide
12.1(1)T	Gatekeeper Ecosystem Interoperability	Allows a gateway to move between gatekeepers during GRQ and RRQ messages.	<a href="#">“Ecosystem Gatekeeper Interoperability”</a> section on page 254 of this guide
	Gateway-to-Gatekeeper Billing Redundancy	Provides redundant billing information to an alternate gatekeeper if the primary gatekeeper becomes unavailable.	<a href="#">“Gateway-to-Gatekeeper Billing Redundancy”</a> section on page 254 of this guide

1. Features that are introduced in a particular release are available in that and subsequent releases.

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