



Cisco Unified Border Element H.323-to-SIP Internetworking Configuration Guide, Cisco IOS Release 15M&T

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CHAPTER

1

Cisco Unified Border Element H.323-to-SIP Interworking

This Cisco Unified Border Element is a special Cisco IOS software image that provides a network-to-network interface point for billing, security, call admission control, quality of service, and signaling interworking. This chapter describes basic gateway functionality, software images, topology, and summarizes supported features.



Note

Cisco Product Authorization Key (PAK)--A Product Authorization Key (PAK) is required to configure some of the features described in this guide. Before you start the configuration process, please register your products and activate your PAK at the following URL <http://www.cisco.com/go/license> .

- [Finding Feature Information, page 1](#)
- [Cisco Unified Border Element H.323-to-SIP Interworking Features, page 1](#)

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Cisco Unified Border Element H.323-to-SIP Interworking Features

This chapter contains the following configuration topics:

Cisco UBE Prerequisites and Restrictions

- Prerequisites for Cisco Unified Border Element (Enterprise)
- Restrictions for Cisco Unified Border Element (Enterprise)

H.323-SIP Protocol Handling and Supplementary Services

- H.323-to-SIP Supplementary Feature Interworking for Session Border Controller
 - H323-to-SIP Back-to-Back Support



CHAPTER 2

Session Border Controller Enhancements

The H.323-SIP and SIP-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration feature provides enhancements for H.323-to-SIP Supplementary Services--specifically, mapping ECS to ReINVITE and ECS to REFER and for SIP-to-SIP Supplementary Services mapping ReINVITE to ReINVITE on the Cisco Session Border Controller. This feature also provides enhancements in Transcoding Performance and support for Universal Transcoding Support as well as integration of Cisco IOS Firewall with the Session Border Controller. Feature highlights include the following:

- Call Admission Control (based on CPU, memory, and total calls)
- Delayed Media Call
- ENUM support
- Configuring SIP Error Message Pass Through
- Interoperability with Cisco Unified Communications Manager 5.0 and BroadSoft
- Lawful Intercept
- Media Inactivity
- Modem passthrough
- TCP and UDP interworking
- Tel scripts with SIP NOTIFY VoiceXML with SIP-to-SIP
- Transport Layer Security (TLS)
- [Prerequisites for Session Border Controller Enhancements, page 3](#)
- [Feature Information for Session Border Controller Enhancements, page 4](#)

Prerequisites for Session Border Controller Enhancements

Cisco Unified Border Element

- Cisco IOS Release 12.4(11)XW or a later release must be installed and running on your Cisco Unified Border Element.

Cisco Unified Border Element (Enterprise)

- Cisco IOS XE Release 3.1S or a later release must be installed and running on your Cisco ASR 1000 Series Router.

Feature Information for Session Border Controller Enhancements

Feature Name	Releases	Feature Information
Session Border Controller Enhancements for H.323-SIP and SIP-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration	12.4(11)XW 12.4(20)T	The H.323-to-SIP and SIP-to-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration feature provides enhancements for H.323-SIP Supplementary Services on the Cisco Session Border Controller. This feature also provides enhancements in Transcoding Performance and support for Universal Transcoding Support as well as integration of Cisco IOS Firewall with the Session Border Controller. In Cisco IOS Release 12.4(11)XW, this feature was implemented on the Cisco Unified Border Element
Session Border Controller Enhancements for H.323-SIP and SIP-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration	Cisco IOS XE Release 3.1S	The H.323-to-SIP and SIP-to-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration feature provides enhancements for H.323-SIP Supplementary Services on the Cisco Session Border Controller. This feature also provides enhancements in Transcoding Performance and support for Universal Transcoding Support as well as integration of Cisco IOS Firewall with the Session Border Controller. In Cisco IOS XE Release 3.1S, this feature was implemented on the Cisco Unified Border Element (Enterprise)