Session Border Controller Enhancements

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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
- Tcl scripts with SIP NOTIFY VoiceXML with SIP-to-SIP
- Transport Layer Security (TLS)

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

GUID-704DF1EE-C5CE-4FB6-BA02-547A7DE369ED2 Feature History Table entry for the Cisco Unified Border Element.

Table 1 *Feature Information for Configuring Session Border Controller Enhancements for H.323-to-SIP and SIP-to-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration*

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.

GUID-EC201279-0F00-428F-913B-F49E325D87E82 Feature History Table entry for the Cisco Unified Border Element (Enterprise).

Table 2   ***Feature Information for Configuring Session Border Controller Enhancements for H.323-to-SIP and SIP-to-SIP Supplementary Services, Transcoding Optimization, and Firewall Integration***

Feature Name	Releases	Feature Information
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.