

Configuring Delayed-Offer to Early-Offer for SIP Audio Calls

This feature alters the default configuration of the Cisco Unified BE from not distinguishing SIP Delayed-Offer to Early-Offer call flows, to forcing the Cisco Unified BE to generate an Early-Offer with the configured codecs for an incoming Delayed-Offer INVITE. To configure a Cisco Unified Border Element to send a SIP invite with Early-Offer (EO) on the Out-Leg (OL) perform the steps in this section.

Prerequisites

- To enable this feature, you must have Cisco IOS Release 12.4(20)T1 or a later release installed and running on your Cisco gateway.
- The **allow-connections sip to sip** command must be configured before you configure media flow-around.

Restrictions

- Cisco Unified Communications Manager 5.x supports Early-Offer over SIP trunk for audio calls with MTP.
- Support for Cisco Unified Communications Manager Early-Offer for video calls and audio calls without MTP is not supported.

Table 1 shows a list of protocol interworking for SIP.

Table 1 Supported protocol interworking

Protocol	In Leg	Out Leg	Support
H.323-to-SIP	Fast Start	Early-Offer	Bi-Directional
	Slow Start	Delayed-Offer	Bi-Directional
SIP-to-SIP	Early-Offer	Early-Offer	Bi-Directional
	Delayed-Offer	Delayed-Offer	Bi-Directional
	Delayed-Offer	Early-Offer	Uni-Directional

How to Configure Delayed-Offer to Early-Offer for SIP Audio Calls

To Delayed-Offer to Early-Offer for SIP Audio Calls for all VoIP calls, or individual dial peers, perform the steps in this section. This section contains the following subsections:

- [Configuring Delayed-Offer to Early-Offer for SIP Audio Calls at the Global Level, page 181](#)
- [Configuring Delayed-Offer to Early-Offer for SIP Audio Calls for a Dial-Peer, page 182](#)

Configuring Delayed-Offer to Early-Offer for SIP Audio Calls at the Global Level

To configure Delayed-Offer to Early-Offer for SIP Audio Calls at the global level, perform the steps in this section.

SUMMARY STEPS

1. **enable**
2. **configure terminal**

3. **voice service voip**
4. **allow-connections sip**
5. **early-offer forced**
6. **exit**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	voice service voip Example: Router(config)# voice service voip	Enters VoIP voice-service configuration mode.
Step 4	allow-connections <i>from-type to to-type</i> Example: Router(config-voi-serv)# allow-connections sip to sip	Allows connections between specific types of endpoints in an Cisco UBE. Arguments are as follows: <ul style="list-style-type: none"> • <i>from-type</i>—Type of connection. Valid values: h323, sip. • <i>to-type</i>—Type of connection. Valid values: h323, sip. <p>Note H.323-to-H.323: By default, H.323-to-H.323 connections are disabled and POTS-to-any and any-to-POTS connections are enabled.</p>
Step 5	early-offer forced Example: Router(config-voi-serv)# early-offer forced	Enables SIP Delayed-Offer to Early-Offer globally.
Step 6	exit Example: Router(config-voi-serv)# exit	Exits the current mode.

Configuring Delayed-Offer to Early-Offer for SIP Audio Calls for a Dial-Peer

To configure Delayed-Offer to Early-Offer for SIP Audio Calls for an individual dial-peer, perform the steps in this section.

SUMMARY STEPS

1. **enable**

2. **configure terminal**
3. **dial-peer voice 1 voip**
4. **voice-class sip early-offer forced**
5. **exit**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables privileged EXEC mode. Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	dial-peer voice <i>number</i> voip Example: Router(config)# dial-peer voice 2 voip	Enters dial-peer configuration mode for the specified VoIP dial peer.
Step 4	voice-class sip early-offer forced Example: Router(config-dial-peer)# voice-class sip early-offer forced	Forcefully send Early-Offer
Step 5	exit Example: Router(config-dial-peer)# exit	Exits the current mode.