



Voice Commands

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allow-connections

To allow connections between specific types of endpoints in a VoIP network, use the **allow-connections** command in voice service configuration mode (**voice service voip**). To refuse specific types of connections, use the **no** form of this command.

allow-connections sip to sip
no allow-connections sip to sip

Syntax Description

sip	Originating endpoint type, sip --Session Interface Protocol (SIP).
to	Indicates that the argument that follows is the connection target.
sip	Terminating endpoint type.

Command Default

SIP-to-SIP connections are disabled by default.

Command Modes

Voice-service configuration (config-voi-serv) using the **voice service voip** command

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

For usage guidelines, see the Cisco IOS XE [allow-connections](#) command.

Examples

```
voice service voip

  allow-connections sip to sip
  no supplementary-service sip handle-replaces
  no supplementary-service sip moved-temporarily
  no supplementary-service sip refer
  sip
  registrar server expires max 300 min 200
```

bind interface

To bind an interface to a Cisco CallManager group, use the **bindinterface** command in SCCP Cisco CallManager configuration mode. To unbind the selected interface, use the **no** form of this command.

Supported Parameters

<i>interface-type</i>	Type of the selected interface.
<i>interface-number</i>	Number of the selected interface.

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines

For more information about this command, see the Cisco IOS XE [bind interface](#) command. As per the yang model design, configure **sip-ua** command on device then under SIP command, configure **bind interface**.

Examples

```
bind interface <interface-name-slot/bay/port>
keepalive retries <1-32>
keepalive timeout <0-180>
sccp ip precedence <1-7>
```

caller-id alerting dsp-pre-allocate

To statically allocate a digital signal processor (DSP) resource for receiving caller ID information for an on-hook (Type 1) caller ID at a receiving Foreign Exchange Office (FXO) voice port, use the **caller-id alerting dsp-pre-allocate** command in voice-port configuration mode. To disable the effect of the command, delete the command from the CLI add-on feature template.

caller-id alerting dsp-pre-allocate

Syntax Description

alerting	Defines the caller ID alerting method.
dsp-pre-allocate	Performs DSP preallocation.

Command Default

DSP resource for receiving caller ID information are not allocated.

Command Modes

Voice-port configuration (config-voiceport)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines

Before using this command, enable caller ID with the **caller-id enable** command.

The **caller-id alerting dsp-pre-allocate** command may be required on an FXO port if the central office uses line polarity reversal to signal the start of caller ID information transmission. Preallocating a DSP voice channel allows the DSP voice channel to listen for caller ID information continuously without requiring an alerting signal from the central office.

Examples

The following example shows how to configure a voice port at which the caller ID information is to be received:

```
voice-port 1/0/0
  cptone br
  caller-id enable
  caller-id alerting line-reversal
  caller-id alerting dsp-pre-allocate
```

caller-id alerting line-reversal

To set the line-reversal alerting method for caller ID information for an on-hook (Type 1) caller ID at a sending Foreign Exchange Station (FXS) voice port, and for an on-hook caller ID at a receiving Foreign Exchange Office (FXO) voice port, use the **caller-id alerting line-reversal** command in voice-port configuration mode. To disable the effect of the command, delete the command from the CLI add-on feature template.

caller-id alerting line-reversal

Syntax Description

alerting	Defines the caller ID alerting method.
line-reversal	Enables line-reversal alerting.

Command Default

The line-reversal alerting method for caller ID information is not set.

Command Modes

Voice-port configuration (config-voiceport)

Command History

Release	Modification
Cisco SD-WAN Release 20.8.1	This command was introduced.

Usage Guidelines

Before using this command, enable caller ID with the **caller-id enable** command.

Before using this command, use the **caller-id mode** command to specify a noncountry, standard caller ID mode, or use the **cptone** command to specify a regional analog voice-interface-related tone, ring, and cadence setting for a voice port:

- **caller-id mode {BT | FSK | DTMF start *x* end *y* }.**

- **cptone** *locale*, Here, *locale* can be **FR, DE, NO, IT, ES, ZA, TR, GB, AT, CN, HU, KR, BR, SE, DK, IS, NL, BE, IN, or SA.**

Examples

The following example shows how to configure a voice port from which caller ID information is sent (FXS):

```
voice-port 1/0/0
  cptone br
  caller-id name A-sample
  caller-id number 4085550111
  caller-id enable
  caller-id alerting line-reversal
```

The following example shows how to configure a voice port from which caller ID information is received (FXO):

```
voice-port 2/0/0
  cptone br
  caller-id enable
  caller-id alerting line-reversal
  caller-id alerting dsp-pre-allocate
```

caller-id alerting pre-ring

To set a 250-millisecond pre-ring alerting method for caller ID information for an on-hook (Type 1) caller ID at a sending Foreign Exchange Station (FXS) and at a receiving Foreign Exchange Office (FXO) voice port, use the **caller-id alerting pre-ring** command in voice-port configuration mode. To disable the effect of the command, delete the command from the CLI add-on feature template.

caller-id alerting pre-ring

Syntax Description	alerting	Defines the caller ID alerting method.
	pre-ring	Enables a 250-millisecond pre-ring alerting method for caller ID information.

Command Default A 250-millisecond pre-ring alerting method for caller ID information is not set.

Command Modes Voice-port configuration (config-voiceport)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines This command is required only when the telephone device attached to an FXS port requires the pre-ring (immediate ring) method to signal the start of caller ID transmission. Use it on FXS voice ports that send caller ID information. This command allows the FXS port to send a short pre-ring before the normal ring

cadence. On an FXO port, an incoming pre-ring is simply counted as a normal ring by use of the **caller-id alerting ring** command.

Before using this command, enable caller ID with the **caller-id enable** command.

Before using this command, use the **caller-id mode** command to specify a noncountry, standard caller ID mode, or use the **cptone** command to specify a regional analog voice-interface-related tone, ring, and cadence setting for a voice port:

- **caller-id mode** {**BT** | **FSK** | **DTMF start** *x* **end** *y*}.
- **cptone** *locale*, Here, *locale* can be **FR, DE, NO, IT, ES, ZA, TR, GB, AT, CN, HU, KR, BR, SE, DK, IS, NL, BE, IN, or SA**.

Examples

The following example shows how to configure a voice port from which caller ID information is sent:

```
voice-port 1/0/0
  cptone br
  caller-id enable
  station name A-sample
  station number 4085550111
  caller-id alerting pre-ring
```

The following example shows how to configure a voice port from which caller ID information is received (FXO):

```
voice-port 2/0/0
  cptone br
  caller-id enable
  caller-id alerting pre-ring
```

caller-id alerting ring

To set the ring-cycle method for receiving caller ID information for an on-hook (Type 1) caller ID at a receiving Foreign Exchange Office (FXO) or a sending Foreign Exchange Station (FXS) voice port, use the **caller-id alerting ring** command in voice-port configuration mode. To disable the effect of the command, delete the command from the CLI add-on feature template.

caller-id alerting ring [{ **1** | **2** | **3** | **4**}]

Syntax Description	alerting	Defines the caller ID alerting method.
	ring [1 2 3 4]	Sets number of ring ON cycles. The default value is 1.

Command Default The ring-cycle method for receiving caller ID information is set to 1.

Command Modes Voice-port configuration (config-voiceport)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines

Before using this command, enable caller ID with the **caller-id enable** command .

The caller ID alerting ring setting is determined by the Bellcore/Telcordia or ETSI standard that your telephone service provider uses for caller ID. Use the setting in the FXO loop-start and ground-start voice ports at which the caller ID information arrives, and in the FXS voice ports from which caller ID information is sent.

This setting must match on the sending and receiving ends of the telephone line connection.

Examples

The following example shows how to configure a voice port at which the caller ID information is received (FXO):

```
voice-port 2/0/0
 cptone US
 caller-id enable
 caller-id alerting ring 2
```

The following example shows how to configure a voice port from which caller ID information is sent (FXS):

```
voice-port 1/0/0
 cptone us
 station name A-sample
 station number 4085550111
 caller-id enable
 caller-id alerting ring 2
```

caller-id block

To request blocking of caller ID information display at the far end of a call that originates from a Foreign Exchange Station (FXS) port, use the **caller-id block** command in voice-port configuration mode at the originating FXS voice port. To allow the display of caller ID information, delete the command from the CLI add-on feature template.

caller-id block**Syntax Description**

block	Blocks the caller ID of calls that are made from this port.
--------------	---

Command Default

The display of caller ID information is allowed.

Command Modes

Voice-port configuration (config-voiceport)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines

Before using this command, enable caller ID with the **caller-id enable** command.

Examples

The following example shows how to configure a voice port from which caller ID information is sent to block the display of caller ID information:

```
voice-port 1/0/0
  caller-id enable
  caller-id block
```

caller-id enable

To enable a device to accept configuration settings from a **caller-id** command that configures caller ID functionality, use the **caller-id enable** command in voice-port configuration mode at the originating FXS or the receiving FXO voice port. To prevent a device from accepting configuration settings from a **caller-id** command that configures caller ID functionality, delete this command from the CLI add-on feature template.

caller-id enable**Syntax Description**

enable	Enables a device to accept configuration settings from a caller-id command.
---------------	--

Command Default

This command is not configured.

Command Modes

Voice-port configuration (config-voiceport)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines

Configure the **caller-id enable** command before using any of the following commands:

- **caller-id alerting dsp-pre-allocate**
- **caller-id alerting line-reversal**
- **caller-id alerting pre-ring**
- **caller-id alerting ring**
- **caller-id block**
- **caller-id format e911**
- **caller-id mode**

Examples

The following example shows how to enable a device to accept configuration settings from a **caller-id** command that configures caller ID functionality:

```
voice-port 1/0/0
 station name A-sample
 station number 4085550111
 caller-id enable
 caller-id alerting ring 2
```

caller-id format e911

To specify a caller ID message type that should be the Enhanced 911 format for calls sent on Foreign Exchange Station (FXS) voice ports, use the **caller-id format e911** command in voice-port configuration mode at the originating FXS voice port. To use the default Multiple Data Message Format (MDMF) caller ID message type, delete the command from the CLI add-on feature template.

caller-id format 911

Syntax Description	e911	Specifies the Enhanced 911 format.
Command Default	The MDMF caller ID message type is used.	
Command Modes	Voice-port configuration (config-voiceport)	
Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines Before using this command, enable caller ID with the **caller-id enable** command.

Examples

The following example shows how to configure a voice port from which caller ID information is sent to use the Enhanced 911 format:

```
voice-port 1/0/0
 cptone US
 station name A-sample
 station number 4085550111
 caller-id enable
 caller-id format e911
```

caller-id mode

To specify a noncountry, standard caller ID mode, use the **caller-id mode** command in voice port configuration mode at the sending Foreign Exchange Station (FXS) voice port or at the receiving Foreign Exchange Office (FXO) voice port. To allow the caller ID mode to be country-specific, delete the command from the CLI add-on feature template.

```
caller-id mode { BT | FSK | DTMF [{ start | { # | * | A | B | C | D } | end | { # | * | A | B | C | D } } ] }
```

Syntax Description

BT	Specifies Frequency-Shift Keying (FSK) with Dual Tone Alerting Signal (DTAS) that is used by British Telecom.
FSK	Specifies that FSK be used before or during a call.
DTMF	Specifies that dual tone multifrequency (DTMF) digits be used with the start and end digit codes.
start	Specifies the start digit code for DTMF digits.
end	Specifies the end digit code for DTMF digits.
#	Specifies the DTMF digit #.
*	Specifies the DTMF digit *.
A	Specifies the DTMF digit A.
B	Specifies the DTMF digit B.
C	Specifies the DTMF digit C.
D	Specifies the DTMF digit D.

Command Default

The caller-ID mode is disabled.

Command Modes

Voice-port configuration (config-voiceport)

Command History

Release	Modification
Cisco SD-WAN Release 20.8.1	This command was introduced.

Usage Guidelines

Before using this command, enable caller ID with the **caller-id enable** command.

This command allows you to configure a caller ID mode that is different from the caller ID mode that the **cptone locale** command configuration command specifies.

The **caller-id mode DTMF** command allows you to configure caller ID DTMF start and end codes that are different from the caller ID DTMF start and end codes that the global **clid dtmf-codes** configuration specifies.

Examples

The following example shows how to configure a noncountry, standard caller ID mode of DTMF with a start code A and end code C:

```
voice-port 1/0/0
 station name A-sample
 station number 4085550111
 caller-id enable
 caller-id mode DTMF start A end C
```

clid dtmf-codes

To specify global caller ID dual-tone multifrequency (DTMF) start, redirect, and end codes, use the **clid dtmf-codes** command in voice service pots configuration mode. To disable the effect of the command, delete the command from the CLI add-on feature template.

clid dtmf-codes *start-code redirect-code end-code*

Syntax Description	dtmf-codes	Defines the DTMF codes.
	<i>start-code</i>	Global start code for the DTMF caller ID string. Valid characters are: <ul style="list-style-type: none"> • Capital letters A through D • Numbers 0 through 9 • Asterisk (*) • Pound sign (#)
	<i>redirect-code</i>	Global redirect code for the DTMF caller ID string. Valid characters are: <ul style="list-style-type: none"> • Capital letters A through D • Numbers 0 through 9 • Asterisk (*) • Pound sign (#)
	<i>end-code</i>	Global end code for the DTMF caller ID string. Valid characters are: <ul style="list-style-type: none"> • Capital letters A through D • Numbers 0 through 9 • Asterisk (*) • Pound sign (#)

Command Default The methods for global caller ID DTMF start, redirect, and end codes are not set.

Command Modes voice service pots configuration (conf-voi-serv)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.8.1a	This command was introduced.

Usage Guidelines

This command is used to configure the global caller ID DTMF codes that are used if the **caller-id mode DTMF** command in voice-port *x/y/z* configuration mode is not configured.

Examples

The following example shows how to configure global caller ID DTMF start, redirect, and end codes to be A, B, and C, respectively:

```
voice service pots
  clid dtmf-codes ABC
```

codec preference

To specify a list of preferred codecs to use on a dial peer, use the **codec preference** command in voice class configuration mode. To disable this functionality, use the **no** form of this command.

codec preference *value* [{ *codec-type* [{ **bytes** *payload-size* | **mode** *mode-value* }] }]
no **codec preference**

Syntax Description

<i>value</i>	Order of preference. 1 is the most preferred and 24 is the least preferred.
<i>codec-type</i>	Preferred codec. Values are as follows: <ul style="list-style-type: none"> • g711alaw --G.711 a-law 64,000 bps. • g711ulaw --G.711 mu-law 64,000 bps. • g722-64 --G.722-64 at 64,000 bps. • g729r8 --G.729 8000 bps. • ilbc --internet Low Bitrate Codec (iLBC) at 13,330 bps or 15,200 bps. <p>If this option is not specified, the dial peer uses the default codec for all calls.</p>
bytes <i>payload-size</i>	(Optional) Specifies that the size (bytes) of the voice payload of each frame. Values depend on the codec type and the packet voice protocol. Applicable to: <ul style="list-style-type: none"> • g711alaw • g711ulaw • g722-64 • g729r8
mode <i>mode-value</i>	(Optional, applies only to the internet low bitrate codec (iLBC), specified with the ilbc option.) Specifies bitrate. The following are valid values: <ul style="list-style-type: none"> • 20: Configures 15.2 kbps • 30: Configures 13.33 kbps <p>The default value is 20.</p>

Command Default If this command is not entered, no specific types of codecs are identified with preference.

Command Modes voice class configuration (config-class)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines For usage guidelines, see the Cisco IOS XE [codec preference](#) command.

Examples

```
voice class codec 1000
  codec preference 1 g729r8
  codec preference 2 g711ulaw bytes 160
  codec preference 3 g711alaw bytes 160
  codec preference 4 g722-64 bytes 160
```

credentials

To enter credentials configuration mode to configure a certificate for a Cisco Unified Communications Manager Express Certificate Trust List (CTL) provider or for Cisco Unified Survivable Remote Site Telephony (SRST) router communication to Cisco Unified Communications Manager, use the **credentials** command in global configuration mode. To set all the commands that are present in credentials configuration mode to the default **nonsecure**, use the **no** form of this command.

credentials
no credentials

Syntax Description This command has no arguments or keywords.

Command Default Nonsecure, so credentials are not provided.

Command Modes Global configuration (config)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.10.1a	This command was introduced.

Usage Guidelines The credential server provides certificates to any device that requests a certificate. The credentials server does not request any data from a client, and so, no authentication is necessary. When the client, Cisco Unified Communications Manager, requests a certificate, the credentials server provides the certificate. Cisco Unified Communications Manager exports the certificate to the phone, and the Cisco Unified IP phone holds the SRST router certificate in its configuration file. The device certificate for secure SRST routers is placed in the configuration file of the Cisco Unified IP phone because the entry limit in the CTL of Cisco Unified Communications Manager is 32.

Credentials service for SRST runs on default port 2445. Cisco Unified Communications Manager connects to port 2445 on the secure SRST router and retrieves the secure SRST device certificate during the TLS handshake.

Activate this command on all SRST routers.

Caution: For security reasons, credentials service should be deactivated on all the SRST routers after the task of provisioning to Cisco Unified Communications Manager is completed.

Examples

The following example shows how to enter credentials configuration mode and set the IP source address and the trustpoint:

```
credentials
 ip source-address 10.6.21.4 port 2445
 trustpoint srstca
```

description (dial-peer voice voip)

To add a description consisting of a line of up to 64 characters to describe a dial peer, use the **description** command in dial peer configuration mode. To delete the description, use the **no** form of this command.

description *string*
no description

Syntax Description

<i>string</i>	Description of dial peer, up to 64 characters.
---------------	--

Command Modes

Dial peer configuration (config-dial-peer)

Usage Guidelines

Use this command to include descriptive text about the dial peer. The description appears in **show** command output and does not affect the operation of the dial peer.

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

For usage guidelines, see the Cisco IOS XE [description](#) command.

```
dial-peer voice 2000 voip
 description inbound PSTN calls
```

destination-pattern

To specify either the prefix or the full E.164 telephone number to be used for a dial peer, use the **destination-pattern** command in dial peer configuration mode.

destination-pattern *string*

no destination-pattern *string***Syntax Description**

<i>string</i>	<p>Series of digits that specify a pattern for the E.164 or private dialing plan telephone number. Valid entries are the digits 0 through 9, the letters A through D, and the following special characters:</p> <ul style="list-style-type: none"> • The asterisk (*) and pound sign (#) that appear on standard touch-tone dial pads. • Comma (,), which inserts a pause between digits. • Period (.), which matches any entered digit (this character is used as a wildcard). • Percent sign (%), which indicates that the preceding digit occurred zero or more times; similar to the wildcard usage. • Circumflex (^), which indicates a match to the beginning of the string. • Dollar sign (\$), which matches the null string at the end of the input string. • Backslash symbol (\), which is followed by a single character, and matches that character. Can be used with a single character with no other significance (matching that character). • Question mark (?), which indicates that the preceding digit occurred zero or one time. • Brackets ([]), which indicate a range. A range is a sequence of characters enclosed in the brackets; only numeric characters from 0 to 9 are allowed in the range. • Parentheses (()), which indicate a pattern and are the same as the regular expression rule.
---------------	---

Command Modes

Dial peer configuration (config-dial-peer)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

Use the **destination-pattern** command to define the E.164 telephone number for a dial peer.

The pattern you configure is used to match dialed digits to a dial peer. The dial peer is then used to complete the call. When a router receives voice data, it compares the called number (the full E.164 telephone number) in the packet header with the number configured as the destination pattern for the voice-telephony peer. The router then strips out the left-justified numbers that correspond to the destination pattern. If you have configured a prefix, the prefix is prepended to the remaining numbers, creating a dial string that the router then dials. If all numbers in the destination pattern are stripped out, the user receives a dial tone.

For usage guidelines, see the Cisco IOS XE [destination-pattern](#) command.

```
dial-peer voice 1000 voip
  description          Branch 1

  destination-pattern 1T
  no shutdown
  voice-class codec 1000
  session transport udp
  session protocol sipv2
  session target ipv4:10.1.101.8
  dtmf-relay rtp-nte digit-drop sip-kpml sip-notify
```

dial-peer voice (VOIP)

To define a particular dial peer, to specify the method of voice encapsulation, and to enter dial peer configuration mode, use the **dial-peer voice** command in global configuration mode. To delete a defined dial peer, use the **no** form of this command.

dial-peer voice *dial-peer-tag* **voip**
no dial-peer voice

<i>dial-peer-tag</i>	Dial peer tag.
----------------------	----------------

Command Default No dial peer is defined. No method of voice encapsulation is specified.

Command Modes Global configuration (config)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines Use the **dial-peer voice** global configuration command to switch to dial peer configuration mode from global configuration mode and to define a particular dial peer. Use the **exit** command to exit dial peer configuration mode and return to global configuration mode.

For usage guidelines, see the Cisco IOS XE [dial-peer voice](#) command.

```
dial-peer voice 1000 voip
  description          Branch 1

  destination-pattern 1T
  no shutdown
  voice-class codec 1000
  session transport udp
  session protocol sipv2
  session target ipv4:10.1.101.8
  dtmf-relay rtp-nte digit-drop sip-kpml sip-notify
```

dtmf-relay (VOIP)

To specify how a Session Initiation Protocol (SIP) gateway relays dual tone multifrequency (DTMF) tones between telephony interfaces and an IP network, use the **dtmf-relay** command in dial peer voice configuration mode. To remove all signaling options and send the DTMF tones as part of the audio stream, use the **no** form of this command.

dtmf-relay { **rtp-nte** [{ **digit-drop** | **sip-info** | **sip-kpml** | **sip-notify** }] | **sip-info** [{ **rtp-nte** [{ **digit-drop** }] | **sip-kpml** | **sip-notify** }] | **sip-kpml** [{ **rtp-nte** [{ **digit-drop** }] | **sip-info** | **sip-notify** }] | **sip-notify** [{ **rtp-nte** [{ **digit-drop** }] | **sip-info** | **sip-kpml** }] }

no dtmf-relay { rtp-nte | sip-info | sip-kpml | sip-notify }

Syntax Description	rtp-nte	Forwards DTMF tones by using RTP with the Named Telephone Event (NTE) payload type.
	digit-drop	Passes digits out-of-band and drops in-band digits. Note The digit-drop keyword is only available when the rtp-nte keyword is configured.
	sip-info	Forwards DTMF tones using SIP INFO messages. This keyword is available only if the VoIP dial peer is configured for SIP.
	sip-kpml	Forwards DTMF tones using SIP KPML over SIP SUBSCRIBE/NOTIFY messages. This keyword is available only if the VoIP dial peer is configured for SIP.
	sip-notify	Forwards DTMF tones using SIP NOTIFY messages. This keyword is available only if the VoIP dial peer is configured for SIP.

Command Default DTMF tones are disabled and sent in-band. That is, they are left in the audio stream.

Command Modes Dial peer voice configuration

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines For usage guidelines, see the Cisco IOS XE [dtmf-relay \(Voice over IP\)](#) command.

```
dial-peer voice 1000 voip
  description Branch 1

  destination-pattern 1T
  no shutdown
  voice-class codec 1000
  session transport udp
  session protocol sipv2
  session target ipv4:10.1.101.8
  dtmf-relay rtp-nte digit-drop sip-kpml sip-notify
```

hunt-scheme least-used

To enable the least used search method for finding an available channel in a trunk group for outgoing calls, use the **hunt-scheme least-used** command in trunk group configuration mode. To delete the hunt scheme from the trunk group profile, use the **no** form of the command.

Supported Parameters

both	Searches both even- and odd-numbered channels.
even	Searches for an idle even-numbered channel. If no idle even-numbered channels are available, an odd-numbered channel is sought.

odd	Searches for an idle odd-numbered channel. If no idle odd-numbered channels are available, an even-numbered channel is sought.
up	Searches channels in ascending order based within a trunk group member. Used with even , odd , both .
down	Searches channels in descending order within a trunk group member. Used with even , odd , both .

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines

For more information about this command, see the Cisco IOS XE [hunt-scheme least-used](#) command.

hunt-scheme round-robin

To enable the round robin search method for finding an available channel in a trunk group for outgoing calls, use the **hunt-scheme round-robin** command in trunk group configuration mode. To delete the hunt scheme from the trunk group profile, use the **no** form of this command.

Supported Parameters

both	Searches for an idle channel among both even- and odd-numbered channels at the same precedence.
even	Searches for an idle even-numbered channel. If no idle even-numbered channel is available, an odd-numbered channel is used.
odd	Searches for an idle odd-numbered channel. If no idle odd-numbered channel is available, an even-numbered channel is used.
up	Searches channels in ascending order based within a trunk group member. Used with even , odd , both .
down	Searches channels in descending order within a trunk group member. Used with even , odd , both .

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines

For more information about this command, see the Cisco IOS XE [hunt-scheme round-robin](#) command.

hunt-scheme sequential

To specify the sequential search method for finding an available channel in a trunk group for outgoing calls, use the **hunt-scheme sequential** command in trunk group configuration mode. To delete the hunt scheme from the trunk group profile, use the **no** form of this command.

Supported Parameters

both	Searches both even- and odd-numbered channels.
even	Searches for an idle even-numbered channel. If no idle even-numbered channel is available, an odd-numbered channel is sought.
odd	Searches for an idle odd-numbered channel. If no idle odd-numbered channel is available, an even-numbered channel is sought.
up	Searches channels in ascending order based within a trunk group member. Used with even , odd , both .
down	Searches channels in descending order within a trunk group member. Used with even , odd , both .

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines

For more information about this command, see the Cisco IOS XE [hunt-scheme sequential](#) command.

Examples

```
hunt-scheme sequential [both | even | odd] [up | down]
```

id network

To configure the IPv4 prefixes of the network that contains IP phones that Survivable Remote Site Telephony (SRST) supports, use the **id network** command in voice register pool configuration mode. To remove the prefixes, use the **no** form of this command.

id network *address* **mask** *mask*

Syntax Description

<i>address</i>	Specifies the IPv4 prefix.
<i>mask</i>	Specifies the IP subnet mask.

Command Default

This command has no default behavior.

Command Modes Voice register pool configuration (config-register-pool)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines The command can be used to configure the IPv4 prefixes of the network that contains the IP phones that SRST supports.

Example

The following example show how to configure 10.10.10.0/24 as the network that contains the IP phones that the SRST feature supports.

```
Device(config)# voice register pool 100
Device(config-register-pool)# id network 10.10.10.0 mask 255.255.255.0
```

Related Commands	Command	Description
	voice register pool	Enters voice register pool configuration mode.

keepalive retries

To set the number of keepalive retries from Skinny Client Control Protocol (SCCP) to Cisco Unified CallManager, use the **keepalive retries** command in SCCP Cisco CallManager configuration mode. To reset this number to the default value, use the **no** form of this command.

Supported Parameters

<i>number</i>	Number of keepalive attempts. Range is 1 to 32. Default is 3.
---------------	---

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines For more information about this command, see the Cisco IOS XE [keepalive retries](#) command.

Examples

```
bind interface <interface-name-slot/bay/port>
keepalive retries <1-32>
sccp ip precedence <1-7>
```

keepalive timeout

To set the length of time between keepalive messages from Skinny Client Control Protocol (SCCP) to Cisco Unified CallManager, use the **keepalive timeout** command in SCCP Cisco CallManager configuration mode. To reset the length of time to the default value, use the **no** form of this command.

Supported Parameters

<i>seconds</i>	Time between keepalive messages. Range is 1 to 180. Default is 30.
----------------	--

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines

For more information about this command, see the Cisco IOS XE [keepalive timeout](#) command.

Examples

```
bind interface <interface-name-slot/bay/port>
keepalive timeout <0-180>
sccp ip precedence <1-7>
```

max-dn

To set the maximum number of extensions to be supported by a Cisco Unified SIP SRST router, use the **max-dn** command in voice register global mode (**voice register global**). To reset this number to the default value, use the **no** form of this command.

max-dn *max-directory-numbers*

no max-dn

Syntax Description

<i>max-directory-numbers</i>	Maximum number of phone directory numbers to allow in the Cisco Unified SIP SRST system. The maximum you can set depends on the software version, router platform, and amount of memory that you have installed. Type ? to display range. The default is 0.
------------------------------	---

Command Default

The default is 0.

Command Modes

Voice register global

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

The **max-dn** command limits the number of directory numbers available in a Cisco Unified SIP SRST system. The maximum number of ephone-dns that you can create depends on the software version, router platform, and amount of memory that you have installed. Type **?** to display range.

```
voice register global
max-dn 200
max-pool 100
system message "SRST mode"
```

max-pool

To set the maximum number of Session Initiation Protocol (SIP) voice register pools that are supported in Cisco Unified SIP SRST, use the **max-pool** command in voice register global configuration mode (**voice register global**). To reset the maximum number to the default, use the **no** form of this command.

max-pool *max-voice-registers-pools*

no max-pool

Syntax Description

<i>max-voice-registers-pools</i>	Maximum number of SIP voice register pools supported by the Cisco router. The upper limit of voice register pools is platform-dependent; type ? for range.
----------------------------------	---

Command Modes

Voice register global configuration (config-register-global)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

This command limits the number of SIP phones supported by Cisco Unified SIP SRST. The **max-pool** command is platform specific and defines the limit for the **voice register pool** command.

The **max-dn** command similarly limits the number of directory numbers (extensions) in Cisco Unified SIP SRST.

```
voice register global
max-dn 200
max-pool 100
system message "SRST mode"
```

registrar server

To enable SIP registrar functionality, use the **registrar server** command in SIP configuration mode (**voice service voip**, then **sip**). To disable SIP registrar functionality, use the **no** form of the command.

registrar server expires [{ **max sec** [**min sec**] | **min sec** }

no registrar server

Syntax Description	expires	(Optional) Sets the active time for an incoming registration.
	maxsec	(Optional) Maximum expires time for a registration, in seconds. The range is from 600 to 86400. The default is 3600.
	minsec	(Optional) Minimum expires time for a registration, in seconds. The range is from 60 to 3600. The default is 60.

Command Default SIP registrar functionality on the Cisco Unified SRST router is disabled.

Command Modes SIP configuration (conf-serv-sip)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines This command enables SIP phone registrations to SIP SRST during fallback mode. If this command is not entered, then phones will not register to SRST.

```
voice service voip

  allow-connections sip to sip
  no supplementary-service sip handle-replaces
  no supplementary-service sip moved-temporarily
  no supplementary-service sip refer
  sip
  registrar server expires max 300 min 200
```

security-policy (voice register global)

To define the security level of Session Initiation Protocol (SIP) phones allowed to register, use the **security-policy command** command in voice register global configuration mode. To return to the default, use the **no** form of this command.

security-policy secure
no security-policy secure

Syntax Description	secure	Requires SIP phones to use Transport Layer Security (TLS) for signaling transport. Non-secure SIP phones are blocked from registering. This functionality is valid for Cisco Unified Survivable Remote Site Telephony (SRST).
---------------------------	---------------	---

Command Default Phones of all security levels are permitted to register, which also is referred to as device-default mode.

Command Modes Voice register global configuration (config-register-global)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.10.1a	This command was introduced.

Usage Guidelines

The **secure** keyword configures the SIP registration security policy so that only encrypted phones can register to the Cisco Unified SRST device in the event of a failover from the primary call control. When this keyword is configured, nonsecure phones that use TCP or UDP for signaling transport, and authenticated phones that use TLS/TCP for signaling transport are blocked from registering.

Examples

The following example shows that only registration requests from encrypted SIP phones in a Cisco Unified SRST system are permitted:

```
voice register global
  security-policy secure
```

session protocol

To configure the session protocol for dial peer, use the **session protocol** command in dial-peer group configuration mode. To remove the session protocol configuration, use the **no** form of this command.

session protocol sipv2 [**target** *target*]

Syntax Description

target *target* Specifies the IP address of the target to forward voice calls.

Example: **ipv4:10.1.101.8**

Command Default

Session Initiation Protocol (SIP) version 2 is the only supported protocol for voice dial peer with Cisco SD-WAN.

Command Modes

Dial-peer group configuration (config-dial-peer)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

The command can be used to configure SIP v2 as the session protocol. In addition, you can configure an IPv4 address as target to route the call towards for outbound VOIP dial-peers.

Example

The following examples show how to configure SIPv2 as the session protocol for a voice dial-peer, and configure the IP 10.1.101.8 as target to route the call to for outbound VOIP dial-peers.

```
Device(config)# dial-peer voice 1000 voip
Device(config-dial-peer)# session protocol sipv2 target ipv4:10.1.101.8
```

```
Device(config)# dial-peer voice 1000 voip
Device(config-dial-peer)# session protocol sipv2
Device(config-dial-peer)# session target ipv4:10.1.101.8
```

Related Commands

Command	Description
dial-peer voice	Enter dial-peer group configuration mode.

session-transport

To specify the transport layer protocol that a SIP phone uses to connect to Cisco Unified SIP gateway, use the **session-transport** command in voice service voip sip or dial-peer voice modes. To reset to the default value, use the **no** form of this command.

session-transport { tcp [{ tls }] | udp }

no session-transport

Syntax Description

tcp	Transmission Control Protocol (TCP) is used.
tls	(Available only with the tcp option) Transport layer security (TLS) over TCP.
udp	User Datagram Protocol (UDP) is used. This is the default.

Command Default

UDP is the default protocol.

Command Modes

voice service voip sip
dial-peer voice

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

This command sets the transport layer protocol parameter in the phone's configuration file.

```
dial-peer voice 8000 voip
  description          Branch 7
  destination-pattern 8T
  no shutdown
  voice-class codec 1000
  session transport udp
  session protocol sipv2
  session target ipv4:10.1.101.8
  dtmf-relay rtp-nte digit-drop sip-kpml sip-notify
```

sccp ip precedence

To set the IP precedence value to be used by Skinny Client Control Protocol (SCCP), use the **sccp ip precedence** command in global configuration mode. To reset to the default, use the **no** form of this command.

Supported Parameters

<i>value</i>	IP precedence value. Range is from 1 (lowest) to 7 (highest).
--------------	---

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.5.1a	Command qualified for use in Cisco SD-WAN Manager CLI templates.

Usage Guidelines

For more information about this command, see the Cisco IOS XE [sccp ip precedence](#) command.

Examples

```
bind interface <interface-name-slot/bay/port>
keepalive retries <1-32>
keepalive timeout <0-180>
sccp ip precedence <1-7>
```

system message (voice register global)

To define a message that displays on SIP phones in a Cisco Unified Survivable Remote Site Telephony (Cisco Unified SRST) system, use the **system message** command in voice register global configuration mode (accessible using the **voice register global** command). To return to the default, use the **no** form of this command.

system message *string*
no system message

Syntax Description

string Message that displays on SIP phones after the phones failover to Cisco Unified SRST. The string can contain a maximum of 32 alphanumeric characters.

Command Default

There is no default message.

Command Modes

Voice register global configuration (config-register-global)

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

The command allows you to customize the idle prompt message that displays on the status line of SIP phones after the phones lose connection with Cisco Unified Communications Manager and failover to Cisco Unified

SRST. A configured message displays until the phones fallback to Cisco Unified Communications Manager. There is no default message.

```
voice register global
  max-dn 200
  max-pool 100
  system message "SRST mode"
```

sip

To enter the Session Initiation Protocol (SIP) configuration mode, use the **sip** command in voice-service VoIP configuration mode.

sip

Syntax Description This command has no arguments or keywords.

Command Default No default behavior or values.

Command Modes Voice-service VoIP configuration (config-voi-srv)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines From the voice-service VoIP configuration mode, the **sip** command enables you to enter SIP configuration mode.

For usage guidelines, see the Cisco IOS XE [sip](#) command.

```
voice service voip

  allow-connections sip to sip
  no supplementary-service sip handle-replaces
  no supplementary-service sip moved-temporarily
  no supplementary-service sip refer
  sip
  registrar server expires max 300 min 200
```

sip-ua

To enable Session Initiation Protocol (SIP) user-agent configuration commands, use the **sip-ua** command in global configuration mode. To reset all SIP user-agent configuration commands to their default values, use the **no** form of this command.

sip-ua
no sip-ua

Syntax Description	This command has no arguments or keywords.
Command Default	If this command is not enabled, no SIP user-agent configuration commands can be entered.
Command Modes	Global configuration (config)

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines For usage guidelines, see the Cisco IOS XE [sip-ua](#) command.

Examples The following example shows how to enter SIP user-agent configuration mode and configure the SIP user agent:

```
Device> enable
Device# configure terminal
Device(config)# sip-ua
```

supplementary-service sip

To enable SIP supplementary service capabilities for call forwarding and call transfers across a SIP network, use the **supplementary-service sip** command in voice service VOIP configuration mode (**voice service voip**). To disable supplementary service capabilities, use the **no** form of this command.

supplementary-service sip { handle-replaces [moved-temporarily] [refer] | moved-temporarily [handle-replaces] [refer] | refer [handle-replaces] [moved-temporarily] }
no supplementary-service sip { handle-replaces | moved-temporarily | refer }

Syntax Description	handle-replaces	Replaces the Dialog-ID in the Replaces Header with the peer Dialog-ID.
	moved-temporarily	Enables SIP Redirect response for call forwarding.
	refer	Enables SIP REFER message for call transfers.

Command Default SIP supplementary service capabilities are enabled globally.

Command Modes Voice service configuration (conf-voi-serv)

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines For usage guidelines, see the Cisco IOS XE [supplementary-service sip](#) command.

```

voice service voip

  allow-connections sip to sip
  no supplementary-service sip handle-replaces
  no supplementary-service sip moved-temporarily
  no supplementary-service sip refer
  sip
  registrar server expires max 300 min 200

```

translation-profile (voice register)

To apply a translation profile to incoming or outgoing call legs on a SIP phone in a Cisco Unified Survivable Remote Site Telephony (SRST) system, use the **translation-profile** command in voice register dn or voice register pool configuration mode. To remove the translation profile, use the **no** form of this command.

translation-profile { **incoming** | **outgoing** } *name*
no translation-profile { **incoming** | **outgoing** }

Syntax Description	incoming	Specifies that this translation profile handles incoming calls.
	outgoing	Specifies that this translation profile handles outgoing calls.
	<i>name</i>	Name of the translation profile.

Command Default Translation profile is not assigned to call legs on the phone.

Command Modes Voice register dn configuration (config-register-dn)
 Voice register pool configuration (config-register-pool)

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.10.1a	This command was introduced.

Usage Guidelines This command assigns a predefined translation profile to incoming or outgoing call legs to and from the Cisco Unified SRST router. Use this command to apply the translation profile to a specific directory number or to all directory numbers on a SIP phone. Create the translation profile that you want to assign is created by using the **voice translation-profile** command.

Examples

The following example assigns the translation profile named profile1 to handle translation of outgoing calls from SIP phone 21:

```

voice register pool 21
  translation-profile outgoing profile1

```

The following example assigns the translation profile named profile2 to handle translation of incoming calls to extension 1200:

```
voice register dn 12
  number 1200
  translation-profile incoming profile2
```

voice-class codec (voice register pool)

To assign a previously configured codec selection preference list, use the **voice-class codec** command in voice register pool configuration mode. To remove the codec preference assignment from the voice register pool, use the **no** form of this command.

voice-class codec *tag*

no voice-class codec

Syntax Description

<i>tag</i>	Unique number assigned to the voice class. Range is from 1 to 10000. The tag number maps to the tag number created by using the voice-class codec command in dial-peer configuration mode.
------------	--

Command Default

There is no codec preference assignment in the voice register pool configuration.

Command Modes

Voice register pool configuration mode

Command History

Release	Modification
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines

During Cisco Unified Session Initiation Protocol (SIP) Survivable Remote Site Telephony (SRST) registration, a dial peer is created and that dial peer includes codec g729r8 by default. This command allows you to change the automatically selected default codec.

The **id** (voice register pool) command is required and must be configured before any other voice register pool commands. The **id** command identifies a locally available individual Cisco SIP IP phone or set of Cisco SIP IP phones.

```
dial-peer voice 8000 voip
  description Branch 7
  destination-pattern 8T
  no shutdown
  voice-class codec 1000
  session transport udp
  session protocol sipv2
  session target ipv4:10.1.101.8
  dtmf-relay rtp-nte digit-drop sip-kpml sip-notify
```

voice-class codec (dial peer voice)

To assign a previously configured codec selection preference list (codec voice class) to a voice over IP (VoIP) dial peer, use the **voice-class codec** command in dial-peer configuration mode. To remove the codec preference assignment from the dial peer, use the **no** form of this command.

voice-class codec *tag*

no voice-class codec

Syntax Description	<table><tr><td><i>tag</i></td><td>Unique number assigned to the voice class. Range: 1 to 10000. The tag number maps to the tag number created using the voice class codec global configuration command.</td></tr></table>		<i>tag</i>	Unique number assigned to the voice class. Range: 1 to 10000. The tag number maps to the tag number created using the voice class codec global configuration command.		
<i>tag</i>	Unique number assigned to the voice class. Range: 1 to 10000. The tag number maps to the tag number created using the voice class codec global configuration command.					
Command Default	Dial peers have no codec voice class assigned.					
Command Modes	Dial peer voice configuration (config-dial-peer)					
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>Cisco IOS XE Catalyst SD-WAN Release 17.2.1v</td><td>Command qualified for use in Cisco vManage CLI templates.</td></tr></table>		Release	Modification	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.
Release	Modification					
Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.					
Usage Guidelines	<p>You can assign one voice class to each VoIP dial peer. If you assign another voice class to a dial peer, the last voice class assigned replaces the previous voice class.</p> <pre>dial-peer voice 100 voip voice-class codec 10</pre>					

voice class codec

To enter voice-class configuration mode and assign an identification tag number for a codec voice class, use the **voice class codec** command in global configuration mode. To delete a codec voice class, use the **no** form of this command.

voice class codec *tag value*

Syntax Description	<table> <tr> <td><i>tag</i></td><td>Lets you specify the unique number that you assign to the voice class. Range is from 1 to 10000. There is no default.</td></tr> <tr> <td><i>value</i></td><td>Specifies the order of preference. 1 is the most preferred and 24 is the least preferred value.</td></tr> </table>	<i>tag</i>	Lets you specify the unique number that you assign to the voice class. Range is from 1 to 10000. There is no default.	<i>value</i>	Specifies the order of preference. 1 is the most preferred and 24 is the least preferred value.
<i>tag</i>	Lets you specify the unique number that you assign to the voice class. Range is from 1 to 10000. There is no default.				
<i>value</i>	Specifies the order of preference. 1 is the most preferred and 24 is the least preferred value.				
Command Default	This command has no default behavior.				
Command Modes	Global configuration (config)				

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Usage Guidelines	This command only creates the voice class for codec selection preference and assigns an identification tag. Use the codec preference command inside the codec class mode to specify the preference of the voice codec.
------------------	---

Example

The following example show how to configure voice class for codec selection preference and assigns 1 as identification tag.

```
Device(config)# voice class codec 1
Device(config-class)# codec preference 1 g729r8
Device(config-class)# codec preference 2 g711alaw
```

voice register global

To enter voice register global configuration mode in order to set global parameters for all supported Cisco SIP IP phones in a Cisco Unified Session Initiation Protocol (SIP) Survivable Remote Site Telephony (SRST) environment, use the **voice register global** command in global configuration mode. To automatically remove the existing DN, pools, and global dialplan patterns, use the **no** form of this command.

voice register global

no voice register global

Syntax Description

This command has no arguments or keywords.

Command Default	There are no system-level parameters configured for SIP IP phones.
-----------------	--

Command Modes	Global configuration (config)
---------------	-------------------------------

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Cisco Unified SIP SRST

Use this command and configure max-pool and max-dn to all SIP phone registrations to SRST.

```
voice register global
max-dn 200
max-pool 100
system message "SRST mode"
```

voice register pool

To enter voice register pool configuration mode and create a pool configuration for a set of SIP phones in Cisco Unified SIP SRST, use the **voice register pool** command in global configuration mode. To remove the pool configuration, use the **no** form of this command.

voice register pool *pool-tag*

no voice register pool *pool-tag*

Syntax Description	<i>pool-tag</i> Unique number assigned to the pool.
--------------------	---

Command Default	There is no pool configured.
-----------------	------------------------------

Command Modes	Global configuration (config)
---------------	-------------------------------

Command History	Release	Modification
	Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.

Cisco Unified SIP SRST

Use this command to enable user control on which registrations are to be accepted or rejected by a SIP SRST device. The voice register pool command mode can be used for specialized functions and to restrict registrations on the basis of the IP subnet parameter.

```
voice register global
  max-dn 200
  max-pool 100
  system message "SRST mode"
voice register pool 100
  id network 10.0.0.0 mask 255.0.0.0
```

voice service voip

To configure voice-service VoIP, use the **voice service voip** command in global configuration mode. To remove the VoIP voice service, use the **no** form of this command.

voice service voip

Command Default	This command has no default behavior.
-----------------	---------------------------------------

Command Modes	This command has no default behavior.
---------------	---------------------------------------

Command History**Release****Modification**

Cisco IOS XE Catalyst SD-WAN Release 17.2.1v	Command qualified for use in Cisco vManage CLI templates.
--	---

Example

The following example show how to configure voice-service VoIP.

```
Device(config)# voice service voip
```