



Setting Up Cisco Unified IP Phones using SIP

Session Initiation Protocol (SIP) registrar functionality in Cisco IOS software is an essential part of Cisco Unified SIP Survivable Remote Site Telephony (SRST). According to RFC 3261, a SIP registrar is a server that accepts Register requests and is typically collocated with a proxy or redirect server. A SIP registrar may also offer location services.

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Prerequisites for Configuring the SIP Registrar

Complete the prerequisites documented in the [“Prerequisites for Configuring Cisco Unified SIP SRST” section on page 9](#) section in [“” section on page 1](#).

Restrictions for Configuring the SIP Registrar

See the restrictions documented in the [“Restrictions for Configuring Cisco Unified SIP SRST” section on page 9](#) section in [“” section on page 1](#).

Information About Configuring the SIP Registrar

Cisco Unified SIP SRST provides backup to an external SIP proxy server by providing basic registrar and call handling services. These services are used by a SIP IP phone in the event of a WAN connection outage when the SIP phone is unable to communicate with its primary SIP proxy. The Cisco Unified SIP SRST device also provides PSTN gateway access for placing and receiving PSTN calls.

Cisco Unified SIP SRST works for the following types of calls:

- Local SIP IP phone to local SIP phone, if the main proxy is unavailable.
- Additional services like class of restriction (COR) for local SIP IP phones to the outgoing PSTN. For example, to block outgoing 1-900 numbers.

How to Configure the SIP Registrar

This section contains the following procedures:

- [Configuring the SIP Registrar, page 82](#) (required)
- [Configuring Backup Registrar Service to SIP Phones, page 84](#) (required)
- [Configuring Backup Registrar Service to SIP Phones \(Using Optional Commands\), page 88](#) (optional)
- [Verifying SIP Registrar Configuration, page 91](#) (optional)
- [Verifying Proxy Dial-Peer Configuration, page 93](#) (optional)

Configuring the SIP Registrar

The local SIP gateway that becomes the SIP registrar acts as a backup SIP proxy and accepts SIP Register messages from SIP phones. It becomes a location database of local SIP IP phones.

A registrar accepts SIP Register requests and dynamically builds VoIP dial peers, allowing the Cisco IOS voice gateway software to route calls to SIP phones.

If a SIP Register request has a Contact header that includes a DNS address, the Contact header is resolved before the contact is added to the SIP registrar database. This is done because during a WAN failure (and the resulting Cisco Unified SIP SRST functionality), DNS servers may not be available.

SIP registrar functionality is enabled with the following configuration. By default, Cisco Unified SIP SRST is not enabled and cannot accept SIP Register messages. The following configuration must be set up to accept incoming SIP Register messages.


SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **voice service voip**
4. **allow-connections sip to sip**
5. **sip**
6. **registrar server [expires [max sec] [min sec]]**

7. end

DETAILED STEPS

	Command or Action	Purpose
Step 1	<pre>enable</pre> <p>Example: Router> enable </p>	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	<pre>configure terminal</pre> <p>Example: Router# configure terminal </p>	Enters global configuration mode.
Step 3	<pre>voice service voip</pre> <p>Example: Router(config)# voice service voip </p>	Enters voice service configuration mode.
Step 4	<pre>allow-connections sip to sip</pre> <p>Example: Router(config-voi-srv)# allow-connections sip to sip </p>	Allows connections from SIP to SIP endpoints.
Step 5	<pre>sip</pre> <p>Example: Router(config-voi-srv)# sip </p>	Enters SIP configuration mode.

Command or Action	Purpose
<p>Step 6</p> <pre>registrar server [expires [max sec] [min sec]]</pre> <p>Example: Router(conf-serv-sip)# registrar server expires max 600 min 60</p>	<p>Enables SIP registrar functionality. The keywords and arguments are defined as follows:</p> <ul style="list-style-type: none"> • expires: (Optional) Sets the active time for an incoming registration. • max sec: (Optional) Maximum expiration time for a registration, in seconds. The range is from 600 to 86400. The default is 3600. <p> Note</p> <p>Ensure that the registration expiration timeout is set to a value smaller than the TCP connection aging timeout to avoid disconnection from the TCP.</p> <ul style="list-style-type: none"> • min sec: (Optional) Minimum expiration time for a registration, in seconds. The range is from 60 to 3600. The default is 60.
<p>Step 7</p> <pre>end</pre> <p>Example: Router(conf-serv-sip)# end</p>	<p>Returns to privileged EXEC mode.</p>

What to Do Next

For incoming SIP Register messages to be successfully accepted, users must also set up a voice register pool. See the [“Configuring Backup Registrar Service to SIP Phones” section on page 84](#).

Configuring Backup Registrar Service to SIP Phones

Backup registrar service to SIP IP phones can be provided by configuring a voice register pool on SIP gateways. The voice register pool configuration provides registration permission control and can also be used to configure some dial-peer attributes that are applied to the dynamically created VoIP dial peers when SIP phone registrations match the pool. The following call types are supported:

- SIP IP phone to or from:
 - Local PSTN
 - Local analog FXS phones
 - Local SIP IP phone

The commands in the configuration below provide registration permission control and set up a basic voice register pool. The pool gives users control over which registrations are accepted by a Cisco Unified SIP SRST device and which can be rejected. Registrations that match this pool create VoIP SIP dial peers with the dial-peer attributes set to these configurations. Although only the **id** command is mandatory, this configuration example shows basic functionality.

For command-level information, see the appropriate command page in [Cisco Unified SRST and Cisco Unified SIP SRST Command Reference \(All Versions\)](#).

Prerequisites

- The SIP registrar must be configured before a voice register pool is set up. See the “[Configuring the SIP Registrar](#)” section on page 82 for complete instructions.

Restrictions

- The **id** command identifies the individual SIP IP phone or sets of SIP IP phones that are to be configured. Thus, the **id** command configured in Step 5 is required and must be configured before any other voice register pool commands. When the **mac address** keyword and argument are used, the IP phone must be in the same subnet as that of the router’s LAN interface, such that the phone’s MAC address is visible in the router’s Address Resolution Protocol (ARP) cache. Once a MAC address is configured for a specific voice register pool, remove the existing MAC address before changing to a new MAC address.
- Proxy dial peers are autogenerated dial peers that route all calls from the PSTN to Cisco Unified SIP SRST. When a SIP phone registers to Cisco Unified SIP SRST and the **proxy** command is enabled, two dial peers are automatically created. The first dial peer routes to the proxy, and the second (or fallback) dial peer routes to the SIP phone. The same functionality can also be achieved with the appropriate creation of static dial peers (manually creating dial peers that point to the proxy). Proxy dial peers can be monitored to one proxy IP address, only. That is, only one proxy from a voice registration pool can be monitored at a time. If more than one proxy address needs to be monitored, you must manually create and configure additional dial peers.



Note

To monitor SIP proxies, the **call fallback active** command must be configured, as described in Step 3.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **call fallback active**
4. **voice register pool tag**
5. **id {network address mask mask | ip address mask mask | mac address}**
6. **preference preference-order**
7. **proxy ip-address [preference value] [monitor probe {icmp-ping | rtr} [alternate-ip-address]]**
8. **voice-class codec tag**
9. **application application-name**
10. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	<code>enable</code> Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> Enter your password if prompted.
Step 2	<code>configure terminal</code> Example: Router# configure terminal	Enters global configuration mode.
Step 3	<code>call fallback active</code> Example: Router(config)# call fallback active	(Optional) Enables a call request to fall back to alternate dial peers in case of network congestion. <ul style="list-style-type: none"> This command is used if you want to monitor the proxy dial peer and fallback to the next preferred dial peer. For full information on the call fallback active command, see PSTN Fallback Feature.
Step 4	<code>voice register pool tag</code> Example: Router(config)# voice register pool 12	Enters voice register pool configuration mode for SIP phones. <ul style="list-style-type: none"> Use this command to control which registrations are accepted or rejected by a Cisco Unified SIP SRST device.
Step 5	<code>id {network address mask mask ip address mask mask mac address}</code> Example: Router(config-register-pool)# id network 172.16.0.0 mask 255.255.0.0	Explicitly identifies a locally available individual or set of SIP IP phones. The keywords and arguments are defined as follows: <ul style="list-style-type: none"> network address mask mask: The network address mask mask keyword/argument combination is used to accept SIP Register messages for the indicated phone numbers from any IP phone within the indicated IP subnet. ip address mask mask: The ip address mask mask keyword/argument combination is used to identify an individual phone. mac address: MAC address of a particular Cisco Unified IP Phone.
Step 6	<code>preference preference-order</code> Example: Router(config-register-pool)# preference 2	Sets the preference order for the VoIP dial peers to be created. Range is from 0 to 10. Default is 0, which is the highest preference. <ul style="list-style-type: none"> The preference must be greater (lower priority) than the preference configured with the preference keyword in the proxy command.

Command or Action	Purpose
<p>Step 7</p> <pre>proxy ip-address [preference value] [monitor probe {icmp-ping rtr} [alternate-ip-address]]</pre> <p>Example: Router(config-register-pool)# proxy 10.2.161.187 preference 1</p>	<p>Autogenerates additional VoIP dial peers to reach the main SIP proxy whenever a Cisco Unified SIP IP Phone registers with a Cisco Unified SIP SRST gateway. The keywords and arguments are defined as follows:</p> <ul style="list-style-type: none"> • <i>ip-address</i>: IP address of the SIP proxy. • preference value: (Optional) Defines the preference of the proxy dial peers that are created. The preference must be less (higher priority) than the preference configured with the preference command. Range is from 0 to 10. The highest preference is 0. There is no default. • monitor probe: (Optional) Enables monitoring of proxy dial peers. • icmp-ping: Enables monitoring of proxy dial peers using ICMP ping. <p>Note The dial peer on which the probe is configured will be excluded from call routing only for outbound calls. Inbound calls can arrive through this dial peer.</p> <ul style="list-style-type: none"> • rtr: Enables monitoring of proxy dial peers using RTR probes. • <i>alternate-ip-address</i>: (Optional) Enables monitoring of alternate IP addresses other than the proxy address. For example, to monitor a gateway front end to a SIP proxy.
<p>Step 8</p> <pre>voice-class codec tag</pre> <p>Example: Router(config-register-pool)# voice-class codec 15</p>	<p>Sets the voice class codec parameters. The <i>tag</i> argument is a codec group number between 1 and 10000.</p>
<p>Step 9</p> <pre>application application-name</pre> <p>Example: Router(config-register-pool)# application SIP.App</p>	<p>(Optional) Selects the session-level application on the VoIP dial peer. Use the <i>application-name</i> argument to define a specific interactive voice response (IVR) application.</p>
<p>Step 10</p> <pre>end</pre> <p>Example: Router(config-register-pool)# end</p>	<p>Returns to privileged EXEC mode.</p>

What to Do Next

There are several more voice register pool commands that add functionality, but that are not required. See the [“Configuring Backup Registrar Service to SIP Phones \(Using Optional Commands\)”](#) section on [page 88](#) for these commands.

Configuring Backup Registrar Service to SIP Phones (Using Optional Commands)

The prior configurations set up a basic voice register pool. The configuration in this procedure adds optional attributes to increase functionality.

Prerequisites

- Prerequisites as described in the “Configuring Backup Registrar Service to SIP Phones” section on page 84.
- Configuration of the required commands as described in the “Configuring Backup Registrar Service to SIP Phones” section on page 84.
- Before configuring the 'alias' command, translation rules must be set using the translate-outgoing (voice register pool) command.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **voice register pool** *tag*
4. **translation-profile outgoing** *profile-tag*
5. **alias** *tag pattern to target* [**preference** *value*]
6. **cor** {**incoming** | **outgoing**} *cor-list-name* {*cor-list-number starting-number* [- *ending-number*] | *default*}
7. **incoming called-number** [*number*]
8. **number** *tag number-pattern* {**preference** *value*} [**huntstop**]
9. **dtmf-relay** [**cisco-rtp**] [**rtp-nte**] [**sip-notify**]
10. **end**

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.

	Command or Action	Purpose
Step 3	<pre>voice register pool tag</pre> <p>Example: Router(config)# voice register pool 12</p>	<p>Enters voice register pool configuration mode.</p> <ul style="list-style-type: none"> Use this command to control which registrations are accepted or rejected by a Cisco Unified SIP SRST device.
Step 4	<pre>translation-profile outgoing profile-tag</pre> <p>Example: Router(config-register-pool)# voice translation-rule 1 rule 1 /1000/ /1006/ ! ! voice translation-profile 1 translate called 1 ! voice register pool xxx translation-profile outgoing 1 </p>	<p>Use this command to apply the translation profile to a specific directory number or to all directory numbers on a SIP phone.</p> <ul style="list-style-type: none"> <i>Profile-tag</i>: Translation profile name to handle translation to outgoing calls.
Step 5	<pre>alias tag pattern to target [preference value]</pre> <p>Example: Router(config-register-pool)# alias 1 94... to 91011 preference 8 </p>	<p>Allows Cisco Unified SIP IP Phones to handle inbound PSTN calls to telephone numbers that are unavailable when the main proxy is not available. The keywords and arguments are defined as follows:</p> <ul style="list-style-type: none"> <i>tag</i>: Number from 1 to 5 and the distinguishing factor when there are multiple alias commands. <i>pattern</i>: The prefix number; matches the incoming telephone number and may include wildcards. to: Connects the tag number pattern to the alternate number. <i>target</i>: The target number; an alternate telephone number to route incoming calls to match the number pattern. preference value: (Optional) Assigns a dial-peer preference value to the alias. The <i>value</i> argument is the value of the associated dial peer, and the range is from 1 to 10. There is no default.

Command or Action	Purpose
<p>Step 6</p> <pre>cor {incoming outgoing} cor-list-name {cor-list-number starting-number [- ending-number] default}</pre> <p>Example: Router(config-register-pool)# cor incoming call91 1 91011</p>	<p>Configures a class of restriction (COR) on the VoIP dial peers associated with directory numbers. COR specifies which incoming dial peers can use which outgoing dial peers to make a call. Each dial peer can be provisioned with an incoming and outgoing COR list. The keywords and arguments are defined as follows:</p> <ul style="list-style-type: none"> • incoming: COR list to be used by incoming dial peers. • outgoing: COR list to be used by outgoing dial peers. • <i>cor-list-name:</i> COR list name. • <i>cor-list-number:</i> COR list identifier. The maximum number of COR lists that can be created is four, comprised of incoming or outgoing dial peers. • <i>starting-number:</i> Start of a directory number range, if an ending number is included. Can also be a standalone number. • (Optional) Indicator that a full range is configured. • <i>ending-number:</i> (Optional) End of a directory number range. • default: Instructs the router to use an existing default COR list.
<p>Step 7</p> <pre>incoming called-number [number]</pre> <p>Example: Router(config-register-pool)# incoming called-number 308</p>	<p>Applies incoming called parameters to dynamically created dial peers. The <i>number</i> argument is optional and indicates a sequence of digits that represent a phone number prefix.</p>
<p>Step 8</p> <pre>number tag number-pattern {preference value} [huntstop]</pre> <p>Example: Router(config-register-pool)# number 1 50.. preference 2</p>	<p>Indicates the E.164 phone numbers that the registrar permits to handle the Register message from the Cisco Unified SIP IP Phone. The keywords and arguments are defined as follows:</p> <ul style="list-style-type: none"> • <i>tag:</i> Number from 1 to 10 and the distinguishing factor when there are multiple number commands. • <i>number-pattern:</i> Phone numbers (including wildcards and patterns) that are permitted by the registrar to handle the Register message from the SIP IP phone. • preference value: (Optional) Defines the number list preference order. • huntstop: (Optional) Stops hunting if the dial peer is busy.

	Command or Action	Purpose
Step 9	<pre>dtmf-relay [cisco-rtp] [rtp-nte] [sip-notify]</pre> <p>Example: Router(config-register-pool)# dtmf-relay rtp-nte</p>	<p>Specifies how a SIP gateway relays dual tone multifrequency (DTMF) tones between telephony interfaces and an IP network. The keywords are defined as follows:</p> <ul style="list-style-type: none"> • cisco-rtp: (Optional) Forwards DTMF tones by using Real-Time Transport Protocol (RTP) with a Cisco proprietary payload type. • rtp-nte: (Optional) Forwards DTMF tones by using RTP with the Named Telephone Event (NTE) payload type. • sip-notify: (Optional) Forwards DTMF tones using SIP NOTIFY messages.
Step 10	<pre>end</pre> <p>Example: Router(config-register-pool)# end</p>	<p>Returns to privileged EXEC mode.</p>

Examples

The following partial output from the **show running-config** command shows that voice register pool 12 is configured to accept all registrations from SIP IP phones with extension number 50xx from the 172.16.0.0/16 network. Autogenerated dial peers for registrations that match pool 12 have attributes configured in this pool.

```
.
.
.
voice register pool 12
  id network 172.16.0.0 mask 255.255.0.0
  number 1 50.. preference 2
  application SIP.app
  preference 2
  incoming called-number
  cor incoming allowall default
  translate-outgoing called 1
  voice-class codec 1
.
.
.
```

Verifying SIP Registrar Configuration

To help you troubleshoot a SIP registrar and voice register pool, perform the following steps.

SUMMARY STEPS

1. debug voice register errors
2. debug voice register events
3. show sip-ua status registrar

DETAILED STEPS

	Command or Action	Purpose																																				
Step 1	<p>debug voice register errors</p> <p>Example: Router# debug voice register errors *Apr 22 11:52:54.523 PDT: VOICE_REG_POOL: Contact doesn't match any pools *Apr 22 11:52:54.539 PDT: VOICE_REG_POOL: Register request for (33015) from (10.2.152.39) *Apr 22 11:52:54.539 PDT: VOICE_REG_POOL: Contact doesn't match any pools. *Apr 22 11:52:54.559 PDT: VOICE_REG_POOL: Register request for (33017) from (10.2.152.39) *Apr 22 11:53:04.559 PDT: VOICE_REG_POOL: Maximum registration threshold for pool(3) hit</p>	<p>Use this command to debug errors that happen during registration.</p> <p>If there are no voice register pools configured for a particular registration request, the message “Contact doesn’t match any pools” is displayed.</p>																																				
Step 2	<p>debug voice register events</p> <p>Example: Router# debug voice register events Apr 22 10:50:21.731 PDT: VOICE_REG_POOL: Contact matches pool 1 Apr 22 10:50:21.731 PDT: VOICE_REG_POOL: key(91011) contact(192.168.0.2) add to contact table Apr 22 10:50:21.731 PDT: VOICE_REG_POOL: key(91011) exists in contact table Apr 22 10:50:21.731 PDT: VOICE_REG_POOL: contact(192.168.0.2) exists in contact table, ref updated Apr 22 10:50:21.731 PDT: VOICE_REG_POOL: Created dial-peer entry of type 1 Apr 22 10:50:21.731 PDT: VOICE_REG_POOL: Registration successful for 91011, registration id is 257</p>	<p>Using the debug voice register events command should suffice to display registration activity. Registration activity includes matching of pools, registration creation, and automatic creation of dial peers. For more details and error conditions, you can use the debug voice register errors command.</p> <p>The phone number 91011 registered successfully, and <i>type 1</i> is reported, which means there is a pre-existing VoIP dial peer.</p>																																				
Step 3	<p>show sip-ua status registrar</p> <p>Example: Router# show sip-ua status registrar</p> <table border="1"> <thead> <tr> <th>Line</th> <th>destination</th> <th>expires(sec)</th> <th>contact</th> </tr> </thead> <tbody> <tr> <td>91021</td> <td>192.168.0.3</td> <td>227</td> <td>192.168.0.3</td> </tr> <tr> <td>91011</td> <td>192.168.0.2</td> <td>176</td> <td>192.168.0.2</td> </tr> <tr> <td>95021</td> <td>10.2.161.50</td> <td>419</td> <td>10.2.161.50</td> </tr> <tr> <td>95012</td> <td>10.2.161.50</td> <td>419</td> <td>10.2.161.50</td> </tr> <tr> <td>95011</td> <td>10.2.161.50</td> <td>420</td> <td>10.2.161.50</td> </tr> <tr> <td>95500</td> <td>10.2.161.50</td> <td>420</td> <td>10.2.161.50</td> </tr> <tr> <td>94011</td> <td>10.2.161.40</td> <td>128</td> <td>10.2.161.40</td> </tr> <tr> <td>94500</td> <td>10.2.161.40</td> <td>129</td> <td>10.2.161.40</td> </tr> </tbody> </table>	Line	destination	expires(sec)	contact	91021	192.168.0.3	227	192.168.0.3	91011	192.168.0.2	176	192.168.0.2	95021	10.2.161.50	419	10.2.161.50	95012	10.2.161.50	419	10.2.161.50	95011	10.2.161.50	420	10.2.161.50	95500	10.2.161.50	420	10.2.161.50	94011	10.2.161.40	128	10.2.161.40	94500	10.2.161.40	129	10.2.161.40	<p>Use this command to display all the SIP endpoints currently registered with the contact address.</p>
Line	destination	expires(sec)	contact																																			
91021	192.168.0.3	227	192.168.0.3																																			
91011	192.168.0.2	176	192.168.0.2																																			
95021	10.2.161.50	419	10.2.161.50																																			
95012	10.2.161.50	419	10.2.161.50																																			
95011	10.2.161.50	420	10.2.161.50																																			
95500	10.2.161.50	420	10.2.161.50																																			
94011	10.2.161.40	128	10.2.161.40																																			
94500	10.2.161.40	129	10.2.161.40																																			

Verifying Proxy Dial-Peer Configuration

To use the **icmp-ping** keyword with the **proxy** command to assist in troubleshooting proxy dial peers, perform the following steps.

SUMMARY STEPS

1. **configure terminal**
2. **voice register pool** *tag*
3. **proxy** *ip-address* [**preference** *value*] [**monitor probe** {**icmp-ping** | **rtr**} [*alternate-ip-address*]]
4. **end**
5. **show voice register dial-peers**
6. **show dial-peer voice**

DETAILED STEPS

	Command or Action	Purpose
Step 1	<pre>configure terminal</pre> <p>Example: Router# configure terminal </p>	Use this command to enter global configuration mode.
Step 2	<pre>voice register pool tag</pre> <p>Example: Router(config)# voice register pool 1 </p>	Use this command to enter voice register pool configuration mode.
Step 3	<pre>proxy ip-address [preference value] [monitor probe {icmp-ping rtr} [alternate-ip-address]]</pre> <p>Example: Router(config-register-pool)# proxy 10.2.161.187 preference 1 monitor probe icmp-ping </p>	Set the proxy command to monitor with icmp-ping .
Step 4	<pre>end</pre> <p>Example: Router(config-register-pool)# end </p>	Returns to privileged EXEC mode.
Step 5	<pre>show voice register dial-peers</pre> <p>Example: Router# show voice register dial-peers dial-peer voice 40035 voip preference 5 destination-pattern 91011 session target ipv4:192.168.0.2 session protocol sipv2 voice-class codec 1 dial-peer voice 40036 voip preference 1 destination-pattern 91011 session target ipv4:10.2.161.187 session protocol sipv2 voice-class codec 1 monitor probe icmp-ping 10.2.161.187 </p>	Use this command to verify dial-peer configurations, and notice that icmp-ping monitoring is set.

	Command or Action	Purpose
Step 6	<pre>show dial-peer voice</pre> <p>Example:</p> <pre>Router# show dial-peer voice VoiceOverIpPeer40036 peer type = voice, information type = voice, description = `', tag = 40036, destination-pattern = `91011', answer-address = `', preference=1, CLID Restriction = None CLID Network Number = ` ' CLID Second Number sent source carrier-id = `', target carrier-id = `', source trunk-group-label = `', target trunk-group-label = `', numbering Type = `unknown' group = 40036, Admin state is up, Operation state is up, incoming called-number = `', connections/maximum = 0/unlimited, ! Default output for incoming called-number command DTMF Relay = disabled, modem transport = system, huntstop = disabled, in bound application associated: 'DEFAULT' out bound application associated: '' dnis-map = permission :both incoming COR list:maximum capability ! Default output for cor command outgoing COR list:minimum requirement ! Default output for cor command Translation profile (Incoming): Translation profile (Outgoing): incoming call blocking: translation-profile = ` ' disconnect-cause = `no-service' advertise 0x40 capacity_update_timer 25 addrFamily 4 oldAddrFamily 4 type = voip, session-target = `ipv4:10.2.161.187', technology prefix: settle-call = disabled ip media DSCP = ef, ip signaling DSCP = af31, ip video rsvp-none DSCP = af41, ip video rsvp-pass DSCP = af41 ip video rsvp-fail DSCP = af41, UDP checksum = disabled, session-protocol = sipv2, session-transport = system, req-qos = best-effort, acc-qos = best-effort, req-qos video = best-effort, acc-qos video = best-effort, req-qos audio def bandwidth = 64, req-qos audio max bandwidth = 0, req-qos video def bandwidth = 384, req-qos video max bandwidth = 0,</pre>	<p>Use the show dial-peer voice command on dial peer 40036, and notice the monitor probe status.</p> <p> Note Also highlighted is the output of the cor and incoming called-number commands.</p>

Command or Action	Purpose
<pre> RTP dynamic payload type values: NTE = 101 Cisco: NSE=100, fax=96, fax-ack=97, dtmf=121, fax-relay=122 S=123, ClearChan=125, PCM switch over u-law=0,A-law=8 RTP comfort noise payload type = 19 fax rate = voice, payload size = 20 bytes fax protocol = system fax-relay ecm enable fax NSF = 0xAD0051 (default) codec = g729r8, payload size = 20 bytes, Media Setting = flow-through (global) Expect factor = 0, Icpif = 20, Playout Mode is set to adaptive, Initial 60 ms, Max 300 ms Playout-delay Minimum mode is set to default, value 40 ms Fax nominal 300 ms Max Redirects = 1, signaling-type = cas, VAD = enabled, Poor QOV Trap = disabled, Source Interface = NONE voice class sip url = system, voice class sip rel1xx = system, monitor probe method: icmp-ping ip address: 10.2.161.187, Monitored destination reachable voice class perm tag = `` Time elapsed since last clearing of voice call statistics never Connect Time = 0, Charged Units = 0, Successful Calls = 0, Failed Calls = 0, Incomplete Calls = 0 Accepted Calls = 0, Refused Calls = 0, Last Disconnect Cause is "", Last Disconnect Text is "", Last Setup Time = 0. </pre>	

Where to Go Next

The next step is configuring incoming and outgoing calls for Cisco Unified SRST. For more information, see the [“Configuring Call Handling” section on page 99](#).

For additional information, see the [“Additional References” section on page 27](#) in the [“Cisco Unified SRST Feature Overview” section on page 1](#) chapter.

