



Configuring E-SRST Site Provisioning

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When enabled on a site, the Cisco UMG E-SRST functionality provides automated remote site provisioning of the following advanced telephony features in survivable mode by gathering the information from Cisco Unified Communications Manager:

- End-user phones and extensions (speed dials, lines, softkeys)
- Voicemail and call forward configuration
- Call routing restrictions (local and long distance, and time of day)
- Call pickup and group pickup
- Hunt groups

This section describes the high-level tasks required to configure a site to support E-SRST. Enabling E-SRST requires configuration on Cisco UMG, the Cisco Unified Communications Manager central call agent, and on the CUCME-as-SRST call agent at the branch site. Most of the configuration on Cisco UMG is handled using the GUI.

This procedure assumes that the security certificates have been installed on the Cisco UMG. For more information, see [About Security for Cisco UMG](#).

Using E-SRST to Pull an Advanced Telephony Configuration from CUCM to the Branch Site

This section describes the high-level configuration tasks required to pull advanced telephony configuration information from Cisco Unified Communications Manager to the remote site.

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Initial Configuration Using the Cisco UMG GUI

Before you can configure Cisco UMG to support E-SRST on branch sites, you must first perform the following high-level tasks using the Cisco UMG GUI:

1. Configure the Cisco UMG initial values using the setup wizard. For more information, see [Using the Setup Wizard](#).
2. Add central call agents using the Central Call Agent wizard. For more information, see [Using the Central Call Agent Wizard to Add Cisco Unified Communications Manager Information](#).
3. Import the Cisco Unified SRST sites. For more information, see [Viewing the Cisco Unified SRST References](#).

Preparing the Central Cisco Unified Communications Manager Call Agent for E-SRST Provisioning

This section assumes that the advanced telephony features have already been configured on Cisco Unified Communications Manager. For more information, see the Cisco Unified Communications Manager documentation at http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd_products_support_series_home.html.

To configure Cisco Unified Communications Manager to prepare for E-SRST provisioning, perform the following steps on Cisco Unified Communications Manager.

Procedure

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- Step 1** Configure the Cisco Unified SRST references on Cisco Unified Communications Manager with the following:
- site name
 - port number for CUCME-as-SRST
 - IP address of the router
- Step 2** Create a device pool in Cisco Unified Communications Manager that has the SRST reference. Gather the following information:
- device pool name
 - Cisco Unified SRST reference, which must match the site name
 - devices and phones. For each phone that you want to be registered for survivable mode, set the device pool to match the device pool configured in the previous step.
- Step 3** Configure the advanced telephony configuration on Cisco Unified Communications Manager that will be downloaded to the branch site using E-SRST provisioning.
- Cisco UMG Release 8.6 supports selected Cisco Unified Communications Manager features to be downloaded using E-SRST site provisioning, and operates in survivable fallback mode. [Table 1](#) lists the supported features and instructions for preparing for the E-SRST site provisioning.

Table 1 *Cisco Unified Communications Manager Advanced Telephony Features Supported in Cisco UMG Release 8.6*

Cisco Unified Communications Manager Advanced Telephony Configuration	Instructions for Preparing Cisco Unified Communications Manager Feature for E-SRST Site Provisioning
Call list and assigned call list to the ephone domain name	- Under Directory Number Information, the Directory number and route partition for a given phone are translated by E-SRST to the dial-peer cor configuration at the branch site. - The Calling Search Space option under Directory Number Settings must be set to International. - The route partition must be set to internal.
Call pickup and group pickup	
Hunt groups	- Select the Hunt Pilot setting. - Select Hunt Pilot. The route partition must be set to internal. - Select Hunt List. - Select Device Settings --> Softkey Templates. This is the template that you assign to all your e-phones. In fallback mode, these templates are translated into an ephone template, and assigned to the e-phones as well. As a result, the same softkey templates that appear in normal connected mode will appear in fallback mode.

Table 2 lists the softkey states and keys that E-SRST provisioning supports.

Table 2 *Softkeys Supported for E-SRST Provisioning*

Phone States	Softkey
Alerting	Endcall
Connected	Endcall, HLog, Hold, Join, Park, RmLstC, Select, TrnsfVM, Trnsfer
Hold	Join, Newcall, Resume, Select
Idle	Cfwdall, Dnd, Gpickup, Hlog, Join, Newcall, Pickup, Redial, RmLstC
Remote-in-use	Ccharge, Newcall
Ringing	Answer, Dnd, Hlog
Seized	CallBack, Cfwdall, Endcall, Gpickup, Hlog, Pickup, Redial

Configuring the Cisco Unified Communications Manager Express Branch Call Agent to Prepare for E-SRST Provisioning

The E-SRST solution requires that Cisco Unified Communications Manager Express be configured in CUCME-as-SRST mode, also known as Cisco Unified SRST fallback mode. For more information, see the [Cisco Unified Communications Manager Express Administrator Guide](#).

The Cisco Unified Communications Manager Express site must also be configured with additional CLI commands to ensure that the Cisco Unified Communications Manager Express site can contact the Cisco UMG so that the Cisco Unified Communications Manager configuration can successfully be pulled through the Cisco UMG device to the branch site.

Perform the following steps in Cisco Unified Communications Manager Express.

Procedure

- Step 1** Configure the IP address for the interface on the branch router that connects back to the Cisco UMG, such as in the following example:

```
interface GigabitEthernet 0/1
  ip address 192.108.1.27 255.255.255.0
```

- Step 2** Configure the user telnet name and password for the interface that connects back to the Cisco UMG.
username name privilege 15 password password



Note Privilege 15 is required for Cisco UMG to push the configurations to the branch site.

- Step 3** Enter the line terminal configuration and enter line configuration mode.
line vty 0 4
- Step 4** Enable local password checking at login.
login local
- Step 5** Define which protocol to use to connect to the branch call agent.
- If TLS is not enabled on the Cisco UMG, enter the following command:
transport input telnet
 - If TLS is enabled on the Cisco UMG, enter the following command:
transport input ssh
- Step 6** Enable the IP HTTP server using the following command:
ip http server
- Step 7** Set the IP HTTP authentication to the local setting using the following command:
ip http authentication local
- Step 8** Enable or disable the HTTPS secure server, depending on whether TLS is enabled on the Cisco UMG:
- If TLS is enabled on the Cisco UMG, enter the following command:
ip http secure-server
 - If TLS is disabled on the Cisco UMG, enter the following command:
no ip http secure-server

If TLS is disabled on the Cisco UMG, this setting is required for the Cisco Unified Communications Manager voice configuration to be downloaded to the branch router.

Step 9 Set the IP HTTP timeout policy using the following command:

ip http timeout policy

Enabling E-SRST Provisioning on the Site Using the Cisco UMG GUI

You must enable E-SRST provisioning using the Cisco UMG GUI for each branch site that will download Cisco Unified Communications Manager telephony configuration during the provisioning process. You can either perform on-demand site provisioning for the site, or configure Cisco UMG to perform scheduled provisioning on the site.

For information, see [Viewing and Provisioning Sites](#).

Verifying the Updated Configuration on the Branch Call Agent Router

Once the E-SRST provisioning is complete, the dial plan and ephone configuration settings configured on the central call agent should now be propagated to the branch call agent router. Verify that the updated settings are now configured on the site by viewing the dial peer and ephone configuration settings.

