



# ' Cisco CallManager Setup for Q-SYS

CallManager 8.x

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# **Preliminary**

Log into the CallManager system and go to **System > Licensing > License User Report** to verify that you have enough Cisco CallManager licenses available. The Q-SYS Core is a third-party SIP endpoint in the CallManager system, and each extension requires three available licenses. Purchase any needed licenses from Cisco.

NOTE: QSC Softphone requires SIP V2 early offer for proper functionality.

# **Security Profile**

You must first have a Security Profile set up. To create one or to verify that you have an existing one, go to System > Security Profile > Phone Security Profile. The Find and List Phone Security Profile window will open.

- 1. To find an existing profile, enter the search parameters, patterns, and text, if there are any. Click **Find**. Click on the record that you need to view.
- To add a new profile, click Add New. Select the Phone Security Profile Type (Figure 1):
  - a. If you plan to use Q-SYS for a single extension, select Third-party SIP Device (Basic).

| none Security Profile T                        | ype* Not Selected                   |   |
|--|-------------------------------------|---|
|  | Cisco 7911                          |   |
|  | Cisco 7912                          |   |
| Next   | Cisco 7920                          |   |
|  | Cisco 7921                          |   |
|  | Cisco 7931                          |   |
| na paga sa | Cisco 7935                          |   |
| *- indicates require                           | cd itel<br>Cisco 7936               |   |
|  | Cisco 7937                          |   |
|  | Cisco 7940                          |   |
|  | Cisco 7941                          |   |
|  | Cisco 7941G-GE                      |   |
|  | Cisco 7942                          |   |
|  | Cisco 7945                          |   |
|  | Cisco 7960                          |   |
|  | Cisco 7961                          |   |
|  | Cisco 7961G-GE                      |   |
|  | Cisco 7962                          |   |
|  | Cisco 7965                          |   |
|  | Cisco 7970                          |   |
|  | Cisco 7971                          | 1 |
|  | Cisco 7975                          |   |
|  | Cisco 7985                          |   |
|  | Cisco ATA 186                       |   |
|  | Cisco IP Communicator               |   |
|  | Cisco TelePresence                  |   |
|  | Cisco Unified Personal Communicator |   |
|  | H.323 Client                        |   |
|  | IP-STE                              |   |
|  | Third-party SIP Device (Advanced)   |   |
|  |                                     |   |

Figure 1

If you plan to use Q-SYS for multiple separate extensions, select **Third-party SIP Device (Advanced)**.

- 3. Click Next. The Phone Security Profile Information window (Figure 2) opens.
- Enter a Name and a Description for the security profile. (Cisco suggests putting the device model and protocol in the name to aid in finding the correct profile if you need to search for or update the profile.)

|  | Third-party SIP Device (Basic) |   |
|--|--------------------------------|---|
| Derree l'iotecon                                     | SIP                            |   |
| Name*  | Conference Room                |   |
| Description  |                                |   |
| Nonce Validity Time*                                 | 600                            |   |
| Transport Type*                                      | UDP                            | • |
| Enable Digest Auth                                   | hentication                    |   |
| Parameters used i<br>SIP Phone Port <sup>*</sup> 506 |                                |   |
| SIP Phone Port* 506                                  | 0                              |   |

|               | -   |
|---------------|-----|
| <i>Figure</i> | - 2 |
| riguic        | _   |

- 5. The Nonce Validity Time should be 600, which is also its default value.
- 6. Set Transport Type to UDP.
- 7. Select the Enable Digest Authentication check box. Leave SIP Phone Port at its default value of 5060 unless your situation requires transmission of SIP traffic on a different port.
- 8. Click Save.

### Add a new user

Next, add a new user. Follow these steps:

- 1. Go to User Management > End User.
- Click Add New. The User Information window will open (Figure 3).

| Password                   |            |
|----------------------------|------------|
| Confirm Password           |            |
| PIN                        |            |
| Confirm PIN                |            |
| Last name*                 | Conference |
| Middle name                |            |
| First name                 |            |
| Telephone Number           |            |
| Mail ID                    |            |
| Manager User ID            |            |
| Department                 |            |
| User Locale                | < None > • |
| Associated PC              |            |
| Digest Credentials         |            |
| Confirm Digest Credentials | •••••      |
|                            |            |

confroom259

Figure 3

User Information

- 3. In **User ID**, enter a user name. This same user name will serve as the *Username* in Q-SYS.
- 4. **Password** and **PIN** are not required. Leave them blank.
- 5. The **Last name** box serves only as an internal descriptor; you may enter the end user's last name or some descriptive term, as shown.
- 6. In **Digest Credentials**, type a string of alphanumeric characters that will serve as the *Proxy Password* in Q-SYS. Enter the same string in **Confirm Digest Credentials**.
- 7. Leave the other boxes blank or at their default values.
- 8. Click Save.

## Add a new device

The new device will link to both the Security Profile created or configured earlier and the New User created in the previous steps.

- Go to Device > Phone. The Find and List Phones window will open.
- 2. Click Add New.
- In the Add a New Phone window, select the Phone Type from the list.

| Device Information   | 00905E111F8C                  |   |
|--|-------------------------------|---|
| Description  | SEP00905E111F8C               |   |
| Device Pool*   | 722                           | • |
| Common Device Configuration<br>Phone Button Template*<br>Common Phone Profile* | < None >                      | - |
|  | Not Selected                  |   |
|  | Standard Common Phone Profile |   |
| Calling Search Space   | < None >                      | - |
| AAR Calling Search Space   | < None >                      | - |
| Media Resource Group List  | < None >                      |   |
| Location*  | Hub_None                      | - |
| AAR Group  | < None >                      | - |
| Device Mobility Mode*  | Default                       |   |
| Owner User ID  | < None >                      | • |
| Ignore Presentation Indicate   | ors (internal calls only)     |   |
| Logged Into Hunt Group   |                               |   |

Figure 4

- a. If you plan to use Q-SYS for a single extension, select Third-party SIP Device (Basic).
- b. If you plan to use Q-SYS for multiple separate extensions, select Third-party SIP
   Device (Advanced).

Click Next. The Phone Configuration window will open.

 Go to the Device Information pane (Figure 4). In the MAC Address box, type the 12-digit MAC address of the Q-SYS Core. Use only alphanumeric characters, with no colons or other separators.

The **Description** box will populate automatically after the complete MAC address has been entered.

- In the Device Pool list, select the one in which this device will operate. Ensure that Q-SYS supports the codec used by the pool.
- Leave the remaining Device Information boxes as they are, at their default values.
- Go to the Protocol Specific Information pane (Figure 5). In the Device Security Profile list, select the Security Profile created earlier in this procedure.
- 8. In the **SIP Profile** list, select the User ID created earlier.

| <ul> <li>Protocol Specific Information</li> <li>Presence Group*</li> </ul>                                  | Standard Presence group | - |  |
|---|-------------------------|---|--|
| MTP Preferred Originating Codec*  | 711ulaw                 |   |  |
| Device Security Profile*  | Conference Room         | • |  |
| Rerouting Calling Search Space<br>SUBSCRIBE Calling Search Space<br>SIP Profile <sup>*</sup><br>Digest User | < None >                | - |  |
|   | < None >                |   |  |
|   | Standard SIP Profile    |   |  |
|   | Confroom259             | - |  |
| Media Termination Point Required  |                         |   |  |
| Unattended Port   |                         |   |  |
| Require DTMF Reception  |                         |   |  |
| - MLPP Information<br>MLPP Domain < None >  |                         |   |  |

#### Figure 5

Leave the remaining Protocol Specific
 Information and MLPP Information boxes as they are, at their default values.

- 10. Click Save.
- A new pane called Association Information (Figure 6) will appear in the upper left of the Phone Configuration window.
   If you have set up a single extension (i.e., basic), only one line will appear. If you have set up multiple extensions (i.e., ad

line will appear. If you have set up multiple extensions (i.e., advanced), as many as eight lines will appear.

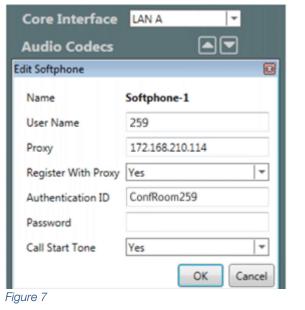
- 12. Click Line [1] Add a new DN. The Directory Number Configuration window will open.
- 13. In the **Directory Number Information** pane, type the directory number of the extension in the **Directory Number** box. This number will serve as the *User Name* in Q-SYS.
- 14. Leave the remaining boxes as they are, at their default values.
- 15. Click Save.
- 16. If you are setting up a two-line configuration, click Line [2] Add a new DN and repeat steps 13 through 15, using a new Directory Number.

CallManager setup is complete.

# Set up Softphone in Q-SYS

Figure 7 shows an example of a Softphone configuration in Q-SYS. Use the values that you have set up in your system.

- 1. In the User Name box, enter the *Directory Number* assigned earlier in CallManager.
- 2. In the **Proxy** box, enter the IP address of the proxy.
- 3. In Authentication ID, enter the User ID assigned earlier in CallManager.
- 4. Leave the **Password** box blank.
- 5. Click OK.





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Figure 6