



Configuring Communication Services

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Communication Services

You can use the following communication services to interface third-party applications with Cisco UCS:

Communication Service	Description
CIM XML	This service is disabled by default and is only available in read-only mode. The default port is 5988. This common information model is one of the standards defined by the Distributed Management Task Force.
HTTP	This service is enabled on port 80 by default. You must enable either HTTP or HTTPS to run Cisco UCS Manager GUI. If you select HTTP, all data is exchanged in clear text mode. For security purposes, we recommend that you enable HTTPS and disable HTTP.
HTTPS	This service is enabled on port 443 by default. You must enable either HTTP or HTTPS to run Cisco UCS Manager GUI. If you select HTTPS, all data is exchanged in encrypted mode through a secure server.

Communication Service	Description
	For security purposes, we recommend that you enable HTTPS and disable HTTP.
SMASH CLP	This service is enabled for read-only access and supports a limited subset of the protocols, such as the show command. You cannot disable it. This shell service is one of the standards defined by the Distributed Management Task Force.
SNMP	This service is disabled by default. If enabled, the default port is 161. You must configure the community and at least one SNMP trap. Only enable this service if your system includes integration with an SNMP server.
SSH	This service is enabled on port 22. You cannot disable it, nor can you change the default port. This service provides access to the Cisco UCS Manager CLI.
Telnet	This service is disabled by default. This service provides access to the Cisco UCS Manager CLI.

Configuring CIM-XML

Procedure

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- Step 1** In the **Navigation** pane, click the **Admin** tab.
 - Step 2** In the **Admin** tab, expand **All ► Communication Services**.
 - Step 3** Select the **Communication Services** tab.
 - Step 4** In the **CIM-XML** area, click the **enabled** radio button.
The **CIM-XML** area expands to display the available configuration options.
 - Step 5** (Optional) In the **Port** field, change the default port that Cisco UCS Manager GUI will use for CIM-XML.
The default port is 5988.
 - Step 6** Click **Save Changes**.
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Configuring HTTP

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
 - Step 2** In the **Admin** tab, expand **All > Communication Services**.
 - Step 3** Select the **Communication Services** tab.
 - Step 4** In the **HTTP** area, click the **enabled** radio button.
The **HTTP** area expands to display the available configuration options.
 - Step 5** (Optional) In the **Port** field, change the default port that Cisco UCS Manager GUI will use for HTTP.
The default port is 80.
 - Step 6** Click **Save Changes**.
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Configuring HTTPS

Creating a Key Ring

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
 - Step 2** On the **Admin** tab, expand **All > Key Management > Root**.
 - Step 3** Right-click **Root** and choose **Create Key Ring**.
 - Step 4** In the **Create Key Ring** dialog box, do the following:
 - a) In the **Name** field, enter a unique name for the key ring.
 - b) In the **Modulus** field, select one of the following radio buttons:
 - **mod512**
 - **mod1024**
 - **mod1536**
 - **mod2048**
 - c) Click **OK**.
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What to Do Next

Create a certificate request for this key ring.

Creating a Certificate Request for a Key Ring

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
- Step 2** On the **Admin** tab, expand **All ► Key Management ► Root**.
- Step 3** Click the key ring for which you want to create a certificate request.
- Step 4** In the **Work** pane, click the **General** tab.
- Step 5** In the **General** tab, click **Create Certificate Request**.
- Step 6** In the **Create Certificate Request** dialog box, complete the following fields:

Name	Description
Password field	An optional password for this request.
Confirm Password field	If you specified a password, enter it again for confirmation.
Subject field	The fully qualified domain name of the fabric interconnect.
IP Address field	The IP address of the fabric interconnect.

- Step 7** Click **OK**.
- Step 8** Copy the text of the certificate request out of the **Request** field and save in a file.
- Step 9** Send the file with the certificate request to the trust anchor or certificate authority.

What to Do Next

Create a trusted point and set the certificate chain for the certificate of trust received from the trust anchor.

Creating a Trusted Point

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
- Step 2** On the **Admin** tab, expand **All ► Key Management ► Root**.
- Step 3** Right-click **Root** and choose **Create Trusted Point**.
- Step 4** In the **Create Trusted Point** dialog box, complete the following fields:

Name	Description
Name field	The name of the trusted point.
Certificate Chain field	The certificate information for this trusted point.

Step 5 Click **OK**.

What to Do Next

When you receive the certificate from the trust anchor or certificate authority, import it into the key ring.

Importing a Certificate into a Key Ring

Procedure

Step 1 In the **Navigation** pane, click the **Admin** tab.

Step 2 On the **Admin** tab, expand **All > Key Management > Root**.

Step 3 Click the key ring into which you want to import the certificate.

Step 4 In the **Work** pane, click the **General** tab.

Step 5 In the **Certificate** area, complete the following fields:

- a) From the **Trusted Point** drop-down list, select the trusted point for the trust anchor that granted this certificate.
- b) In the **Certificate** field, paste the text from the certificate you received from the trust anchor or certificate authority.

Tip If the fields in an area are not displayed, click the **Expand** icon to the right of the heading.

Step 6 Click **Save Changes**.

What to Do Next

Configure your HTTPS service with the key ring.

Configuring HTTPS

Procedure

Step 1 In the **Navigation** pane, click the **Admin** tab.

Step 2 In the **Admin** tab, expand **All > Communication Services**.

Step 3 Select the **Communication Services** tab.

Step 4 In the **HTTPS** area, click the **enabled** radio button.

The **HTTPS** area expands to display the available configuration options.

Step 5 (Optional) In the **Port** field, change the default port that Cisco UCS Manager GUI will use for HTTPS. The default port is 443.

Step 6 (Optional) In the **Key Ring** field, enter the name of the key ring you created for HTTPS.

Caution If you update the **Key Ring** field, all current HTTP and HTTPS sessions will be closed without warning after you click **Save Changes**.

Step 7 Click **Save Changes**.

Step 8 Click **OK**.

Deleting a Key Ring

Procedure

Step 1 In the **Navigation** pane, click the **Admin** tab.

Step 2 On the **Admin** tab, expand **All ► Key Management ► Root**.

Step 3 Right-click the key ring you want to delete and select **Delete**.

Step 4 If Cisco UCS Manager GUI displays a confirmation dialog box, click **Yes**.

Deleting a Trusted Point

Procedure

Step 1 In the **Navigation** pane, click the **Admin** tab.

Step 2 On the **Admin** tab, expand **All ► Key Management ► Root**.

Step 3 Right-click the trusted point you want to delete and select **Delete**.

Step 4 If Cisco UCS Manager GUI displays a confirmation dialog box, click **Yes**.

Step 5 Click **OK**.

Configuring SNMP

Enabling SNMP

Procedure

Step 1 In the **Navigation** pane, click the **Admin** tab.

Step 2 In the **Admin** tab, expand **All ► Communication Services**.

Step 3 Select the **Communication Services** tab.

Step 4 In the **SNMP** area, click the **enabled** radio button.

The **SNMP** area expands to display the available configuration options. You cannot change the port on which Cisco UCS Manager communicates with the SNMP host.

- Step 5** In the **Community** field, enter the default community name that Cisco UCS Manager GUI should include with any trap messages it sends to the SNMP server.
The default community is public.
- Step 6** Click **Save Changes**.

Configuring Trap Hosts

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
- Step 2** In the **Admin** tab, expand **All ► Communication Services**.
- Step 3** Select the **Communication Services** tab.
- Step 4** In the **SNMP Traps** area, click +.
- Step 5** In the **Create SNMP Trap** dialog box, complete the following fields:

Name	Description
IP Address field	The IP address of the SNMP host to which the fabric interconnect should send the trap.
Community field	The community name the fabric interconnect includes when it sends the trap to the SNMP host. This must be the same community as you configured for the SNMP service. Enter an alphanumeric string between 1 and 32 characters.
Port field	The port on which the fabric interconnect communicates with the SNMP host. The default port is 162.

- Step 6** Click **OK**.
- Step 7** Click **Save Changes**.

Configuring SNMPv3 users

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
- Step 2** In the **Admin** tab, expand **All ► Communication Services**.
- Step 3** Select the **Communication Services** tab.
- Step 4** In the **SNMP Users** area, click +.
- Step 5** In the **Create SNMP User** dialog box, complete the following fields:

Name	Description
Name field	The username assigned to the SNMP user.
Auth Type field	The authorization type. This can be: <ul style="list-style-type: none"> • MD5 • SHA
Use AES-128 check box	If checked, this user uses AES-128 encryption.
Password field	The password for this user.
Confirm Password field	The password again for confirmation purposes.
Privacy Password field	The privacy password for this user.
Confirm Privacy Password field	The privacy password again for confirmation purposes.

- Step 6** Click **OK**.
- Step 7** Click **Save Changes**.

Enabling Telnet

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
- Step 2** In the **Admin** tab, expand **All ► Communication Services**.
- Step 3** Click the **Communication Services** tab.
- Step 4** In the **Telnet** area, click the **enabled** radio button.
- Step 5** Click **Save Changes**.

Disabling Communication Services



Note We recommend that you disable all communication services that are not required to interface with other network applications.

Procedure

- Step 1** In the **Navigation** pane, click the **Admin** tab.
 - Step 2** In the **Admin** tab, expand **All ► Communication Services**.
 - Step 3** On the **Communication Services** tab, click the **disable** radio button for each service that you want to disable.
 - Step 4** Click **Save Changes**.
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