



## Manage Bulk Certificates

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## Manage Bulk Certificates

Use bulk certificate management if you want to share a set of certificates between clusters. This step is required for system functions that require established trust between clusters, such as extension mobility cross cluster.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<a href="#">Export Certificates, on page 1</a>	This procedure creates a PKCS12 file that contains certificates for all nodes in the cluster.
<b>Step 2</b>	<a href="#">Import Certificates, on page 2</a>	Import the certificates back into the home and remote (visiting) clusters.

## Export Certificates

This procedure creates a PKCS12 file that contains certificates for all nodes in the cluster.

### Procedure

- Step 1** From Cisco Unified OS Administration, choose **Security > Bulk Certificate Management**.
- Step 2** Configure the settings for a TFTP server that both the home and remote clusters can reach. See the online help for information about the fields and their configuration options.
- Step 3** Click **Save**.
- Step 4** Click **Export**.
- Step 5** In the **Bulk Certificate Export** window, choose **All** for the **Certificate Type** field.
- Step 6** Click **Export**.
- Step 7** Click **Close**.

**Note** When the bulk certificate export is performed, the certificates are then uploaded to the remote cluster as follows:

- CAPF certificate gets uploaded as a CallManager-trust
- Tomcat certificate gets uploaded as a Tomcat-trust
- CallManager certificate gets uploaded as a CallManager-trust
- CallManager certificate gets uploaded as a Phone-SAST-trust
- ITLRecovery certificate gets uploaded as a PhoneSast-trust and CallManager-trust

The above steps are performed when certificates are self-signed and there is no common trust in another cluster. If there is a common trust or the same signer then the export of ALL certificates is not needed.

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## Import Certificates

Import the certificates back into the home and remote (visiting) clusters.



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**Note** Import of certificate using bulk certificate management causes phones to reset.

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### Before you begin

Before the Import button appears, you must complete the following activities:

- Export the certificates from at least two clusters to the SFTP server.
- Consolidate the exported certificates.

### Procedure

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- Step 1** From From Cisco Unified OS Administration, choose **Security > Bulk Certificate Management > Import > Bulk Certificate Import**.
- Step 2** From the **Certificate Type** drop-down list, choose **All**.
- Step 3** Choose **Import**.

**Note** When the bulk certificate import is performed, the certificates are then uploaded to the remote cluster as follows:

- CAPF certificate gets uploaded as a CallManager-trust
- Tomcat certificate gets uploaded as a Tomcat-trust
- CallManager certificate gets uploaded as a CallManager-trust
- CallManager certificate gets uploaded as a Phone-SAST-trust
- ITLRecovery certificate gets uploaded as a PhoneSast-trust and CallManager-trust

**Note** The following types of certificates determines phones that are restarted:

- Callmanager - ALL phones only IF TFTP service is activated on the node the certificate belongs.
  - TVS - SOME phones based on Callmanager group membership.
  - CAPF - ALL phones only IF CAPF is activated.
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