

Use Prime Collaboration Deployment as a SFTP Server

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Introduction

This document describes how to use Prime Collaboration Deployment (PCD) as a Secure File Transfer Protocol (SFTP) server in order to provide a remote server option for tasks such as upgrades, backups and restores.

Prerequisites

Requirements

Cisco recommends that you have knowledge of:

- Cisco Unified Communications Manager (CUCM) version 11.5(1) or later
- PCD version 11.6(2) or later
- File transfer clients (such as Filezilla) is also recommended

Components Used

The information in this document is based on these software and hardware versions:

- CUCM version 11.5SU6
- PCD version 11.6(2)
- Filezilla

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

The Disaster Recovery System (DRS), which can be invoked from Cisco Unified Communications Manager Administration, or from any Instant Messaging and Presence node, provides full data backup and restore capabilities for all servers in a CUCM cluster. The Disaster Recovery System allows you to perform regularly scheduled automatic or user-invoked data backups.

The Disaster Recovery System performs a cluster-level backup, which means that it collects backups for all servers in a CUCM cluster to a central location and archives the backup data to the physical storage device.

In order to back up data to a remote device on the network, you must have an SFTP server that is configured. Cisco allows you to use any SFTP server product, but PCD is the only SFTP supported by Cisco Technical Assistance Center (TAC).

Configure

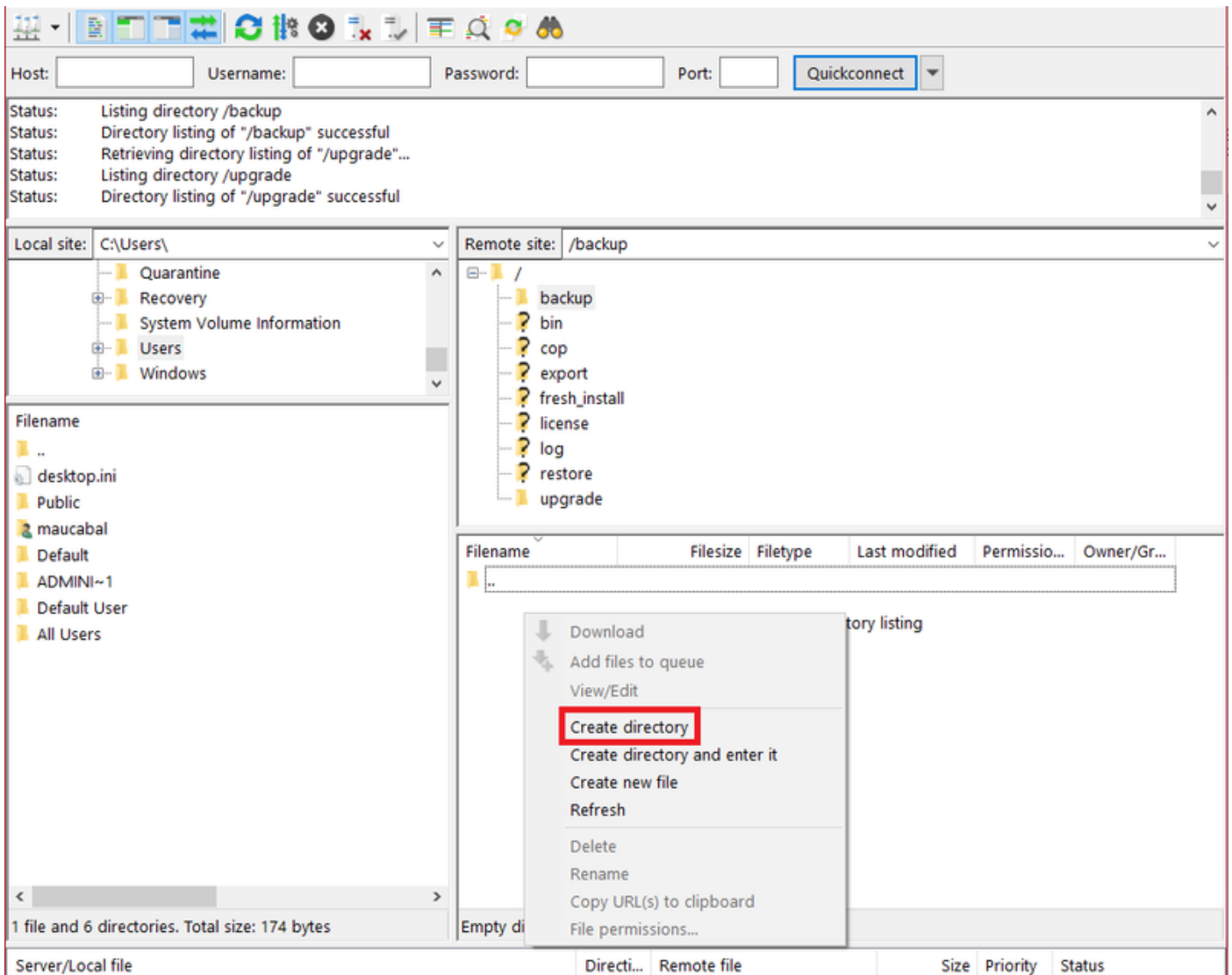
Use PCD as a Backup Repository

Step 1. Open Filezilla and log in to your PCD server with this information:

- Host: **<IP or hostname of your PCD server>**
- Username: **adminsftp**
- Password: **<Your PCD Application password>**
- Port: **22**

Step 2. Select the **/backup** directory and open it.

Step 3. Right-click on the file list that reads **Empty Directory Listing**, and select **Create Directory**, as shown in the image.



Step 4. Name your new directory **CUCM_BU** and select **OK**.

Note: Due to Linux permission restrictions, creation of new directories is not possible under root ("/") directory, you can create a directory in any sub-directory instead.



Step 5. On CUCM, navigate to **Disaster Recovery System > Backup > Backup Device > Add New**.

Step 6. Enter the values shown in the image and then select **Save**.


- Backup Device Name: **PCD_SFTP**
- Host name/IP Address: **<IP or hostname of your PCD server>**
- Path name: **/backup/CUCM_BU**
- Username: **adminsftp**
- Password: **<Your PCD Application password>**

Backup ▾ Restore ▾ Help ▾

Backup Device

 Save  Back

Status

 Status:Ready

Backup device name

Backup device name*

Select Destination*

Network Directory

Host name/IP address	<input type="text" value="192.0.2.1"/>
Path name	<input type="text" value="/backup/CUCM_BU"/>
User name	<input type="text" value="adminsftp"/>
Password	<input type="password" value="....."/>

Number of backups to store on Network Directory ▾

Step 7. Navigate to **Backup > Manual Backup**, select **PCD_SFTP** as the Backup Device, both **UCM** and **CDR_CAR** as **Selected Features** and select **Start Backup**.

Backup ▾ Restore ▾ Help ▾

Manual Backup

Status

Status: Ready

Select Backup Device

Device Name*

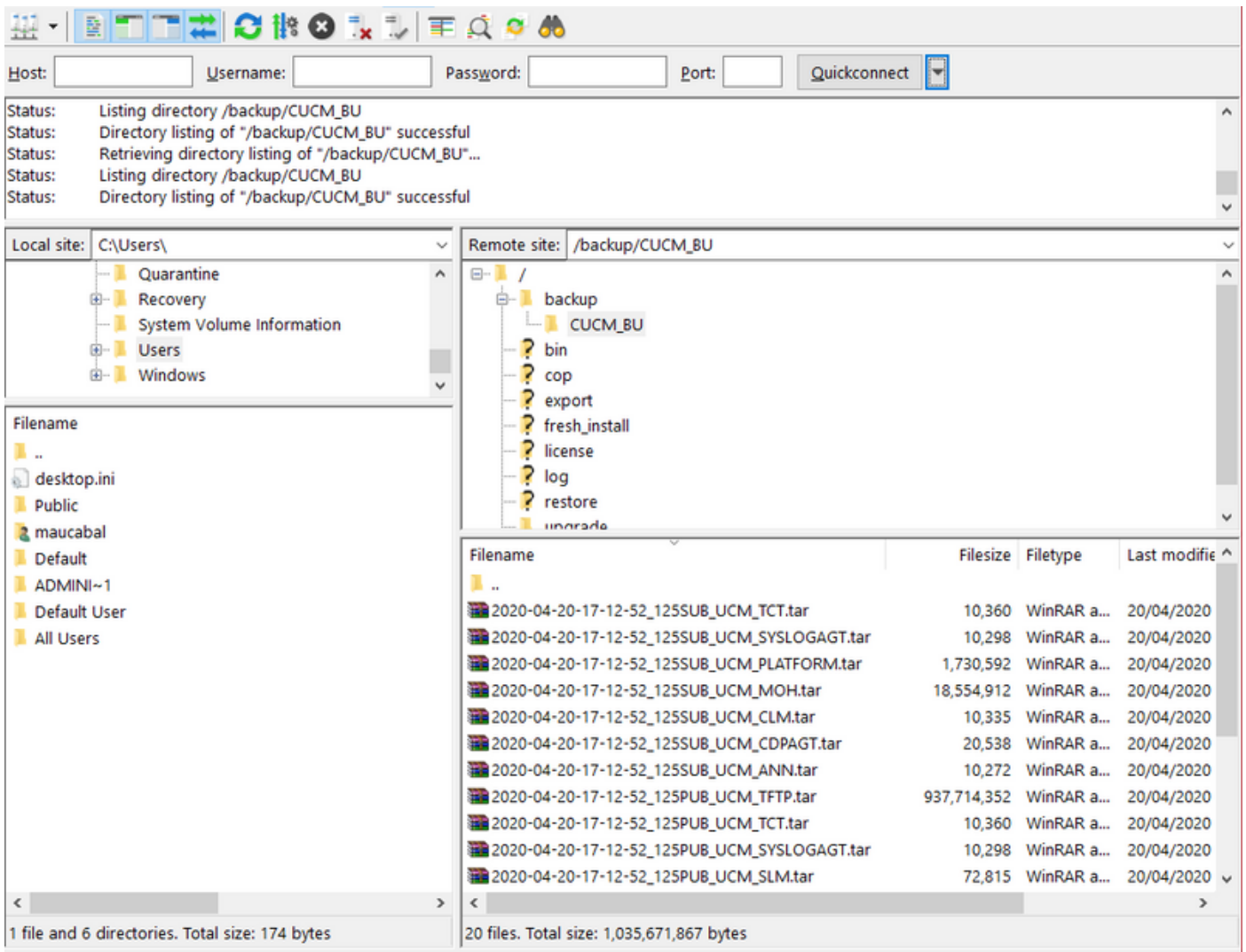
Select Features *

UCM
 CDR_CAR

The following components are registered with Disaster Recovery System:

Feature	Server	
UCM	125PUB	PLATFORM
UCM	125PUB	SYSLOGAGT
UCM	125PUB	CLM
UCM	125PUB	CDPAGT
UCM	125PUB	BAT
UCM	125PUB	TFTP
UCM	125PUB	CCMPREFS
UCM	125PUB	CCMDB
UCM	125PUB	TCT
UCM	125PUB	SLM
UCM	125SUB	PLATFORM
UCM	125SUB	CLM
UCM	125SUB	CDPAGT
UCM	125SUB	SYSLOGAGT
UCM	125SUB	ANN
UCM	125SUB	MOH
UCM	125SUB	TCT
CDR_CAR	125PUB	CAR

Step 8. Once the backup is finished, you can navigate to the file transfer client and verify the backup files, as shown in the image.





Use PCD as a Recovery Repository


Step 1. On CUCM, navigate to **Disaster Recovery System > Restore > Restore Wizard**, select **PCD_SFTP** as the Device and select **Next**.

Backup ▾ Restore ▾ Help ▾

Step1 Restore - Choose Backup device


 Next  Cancel

Status

 Status:Ready

Select Backup Device




Device Name*

 * Indicates required items.


Step 2. Select the backup file you want to restore from and select **Next**, as shown in the image.

Backup ▾ Restore ▾ Help ▾

Step2 Restore - Choose the Backup Tar File


 Back  Next  Cancel

Status

 Status:Ready

Select Backup Archive**

Select Backup File*

 * Indicates required items.
** Only the archives of the same version, having at least one feature with backup status SUCCESS or WARNING will be listed.

Step 3. Select **UCM** and **CDR_CAR** and then select **Next**.

Step3 Restore - Select the type of Restore

Back Select All Clear All Next Cancel

Status

Status:Ready

Select Features*

- CDR_CAR
- UCM

Backed up components in TAR:

Feature	Server	
CDR_CAR	125PUB	CAR
UCM	125PUB	PLATFORM
UCM	125PUB	SYSLOGAGT
UCM	125PUB	CLM
UCM	125PUB	CDPAGT
UCM	125PUB	BAT
UCM	125PUB	TFTP
UCM	125PUB	CCMPREFS
UCM	125PUB	CCMDB
UCM	125PUB	TCT
UCM	125PUB	SLM
UCM	125SUB	PLATFORM
UCM	125SUB	CLM
UCM	125SUB	CDPAGT
UCM	125SUB	SYSLOGAGT
UCM	125SUB	ANN
UCM	125SUB	MOH
UCM	125SUB	TCT

Back Select All Clear All Next Cancel

* Indicates required items.

Step 4. Select the nodes you want to restore and then select **Restore**.

Backup ▾ Restore ▾ Help ▾

Step4 Restore - Final Warning for Restore

Status

Status:
Ready

Warning

- * Feature(s) CDR_CAR,UCM have been selected for restore. Select the servers on which these features need to be restored. Once the selection has been made, restore will overwrite the data on the destination server and all the existing data for the selected feature will be lost.
- * The following is applicable in case of a cluster setup : If node selected is publisher, whole cluster database will be restored. This may take upto several hours based on number of nodes and size of database being restored. In case of only the publisher restore, please restart the entire cluster after the successful restore of the publisher.
- * The following is applicable in case of a cluster setup : If you are attempting to restore the entire cluster on a freshly installed publisher, then click on the one-step restore button. This allows the publisher to become cluster aware. If the publisher becomes cluster aware then select the servers and click on Restore button which will start the restore of cluster in one go. In case the publisher fails to become cluster aware then follow the normal two-step restore process where the publisher is to be restored first. The subsequent nodes can then be selected only after the completion of publisher restore. For further details please refer to the Disaster Recovery System Administration Guide.

One-Step Restore

Perform a one-step restore of entire cluster.

File integrity check

Perform file integrity check using SHA1 Message Digest

Select the Servers to be restored for each feature*

• CDR_CAR	
<input checked="" type="checkbox"/>	125PUB
• UCM	
<input checked="" type="checkbox"/>	125PUB
<input checked="" type="checkbox"/>	125SUB

Select the server from which database data need to be restored

* This feature can be used if the Publisher database is in inconsistent state and needs to be restored from duplicate database in subscriber. If a subscriber is selected from the following list, publisher database will be restored from selected subscriber. **Also, this restore process will not restore database on any of the subscribers even if the subscribers checkbox is checked above.** Please ensure selected subscriber is up and connected to the cluster before restore process starts.

Select server name

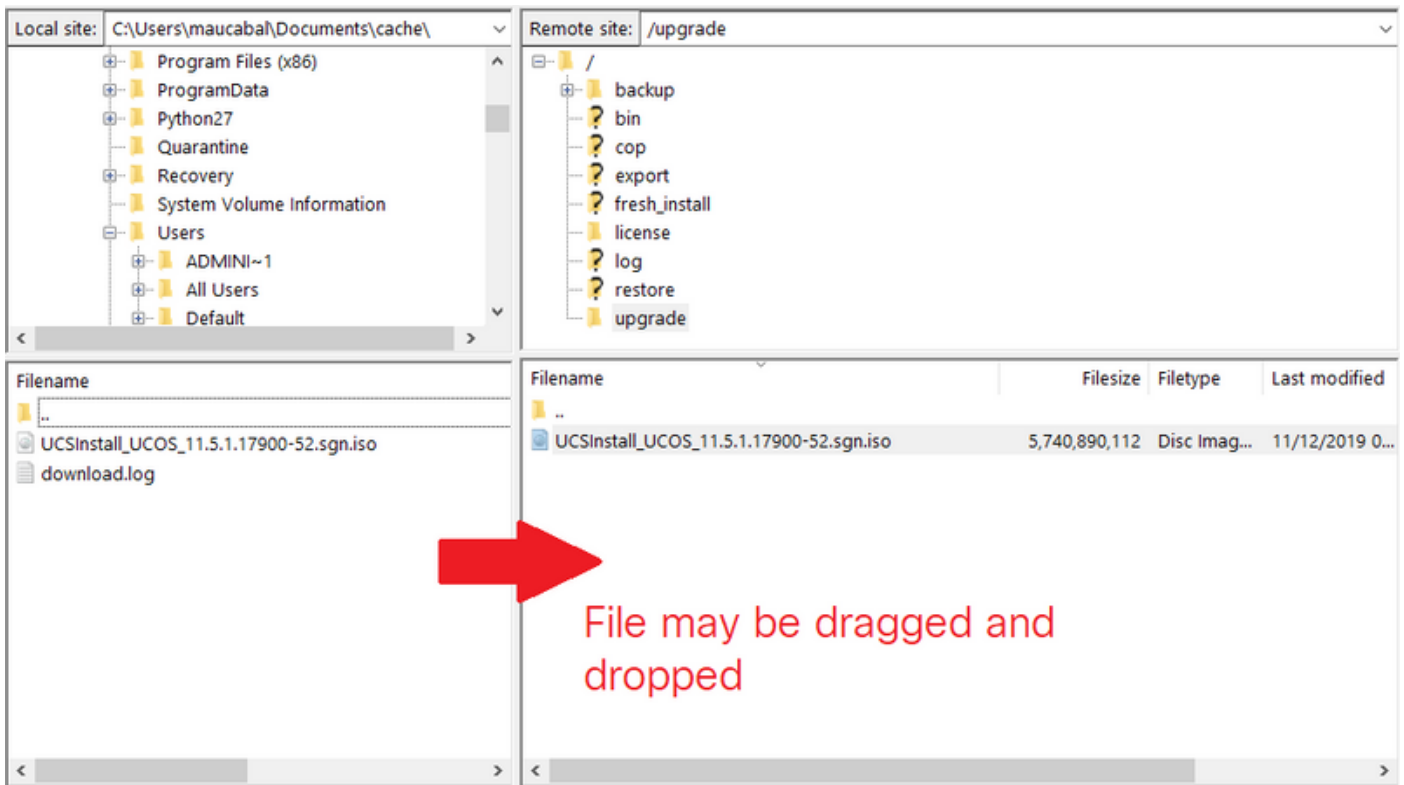
Use PCD as a Remote Filesystem for Upgrades

Step 1. Open Filezilla and log in to your PCD server with this information.

- Host: <IP or hostname of your PCD server>
- Username: **adminsftp**
- Password: <Your PCD Application password>
- Port: **22**

Step 2. Navigate to the **/upgrade** directory and open it.

Step 3. Copy the upgrade file from your computer to the **/upgrade** directory, as shown in the image.



Step 4. On CUCM, navigate to **Unified OS Administration > Software Upgrades > Install/Upgrade**.

Step 5. Enter the values shown in the image and then select **Next**.

- Source: **Remote Filesystem**
- Directory: **/upgrade**
- Server: **<IP or hostname of your PCD server>**
- Username: **adminsftp**
- User Password: **<Your PCD Application password>**
- Transfer Protocol: **SFTP**

Software Installation/Upgrade



Cancel



Next

Status



Status: Ready

Software Location

Source*	<input type="text" value="Remote Filesystem"/>
Directory*	<input type="text" value="/upgrade"/>
Server*	<input type="text" value="192.0.2.1"/>
User Name*	<input type="text" value="adminsftp"/>
User Password*	<input type="password" value="●●●●●●●●"/>
Transfer Protocol*	<input type="text" value="SFTP"/>
SMTP Server	<input type="text"/>
Email Destination	<input type="text"/>

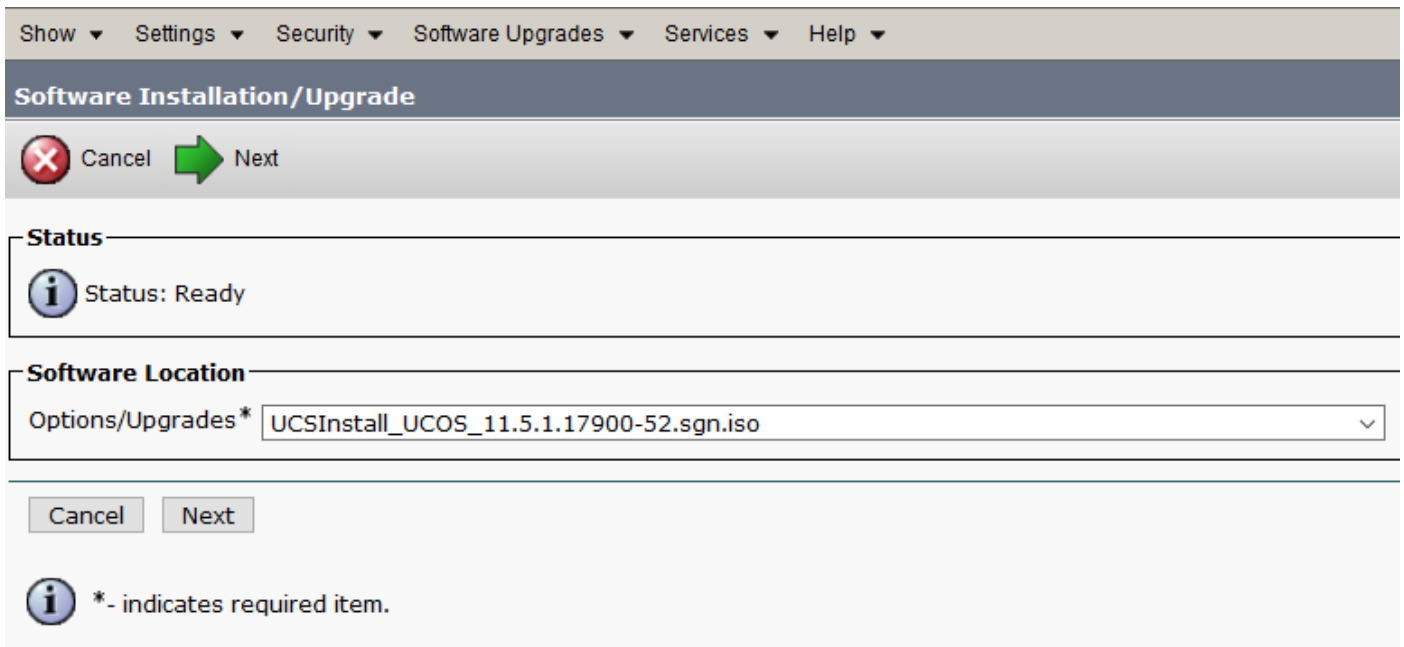
Cancel

Next



*- indicates required item.

Step 6. Select the upgrade file you want to apply, and select **Next**.



Step 7. Proceed with the upgrade as required.

Verify

The verification procedure is actually part of the configuration process.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.