

# Schedule Installation

# Available Install Actions

- **Pre-Upgrade**

- Establishes initial device connection.
- Records running software version.
- Records the running configuration and stores it in a file.
- Checks the state of all nodes on the system.
- Verifies server repository reachability.
- Records inactive, active, committed package list.

**Optional Plugins:**

- Records OSPF and ISIS neighbors.
- Sets ISIS set-overload-bit if ISIS is running.
- Records total number of BGP neighbors.
- Records total number of MPLS LDP neighbors.
- Records total number of PIM neighbors.
- Records total number of HSRP neighbors and states.
- Records total number of VRRP neighbors and states.

- **Install Add**

- Copies software packages to the device.

- **Activate**

- Activates packages on the device.

- **Post-Upgrade**

- Checks node status, standby role status, configuration failure, software package states, etc.
- Verifies error/tracebacks/core files.

- **Commit**

- Executes Install Commit on the device




# Available Install Actions - Continue

- **ALL**
  - CSM Server will create Pre-Upgrade, Install Add, Activate, Post-Upgrade, and Commit installation actions with the successor depending on the predecessor. Until the predecessor has executed successfully, the successor will not run.
- **Remove**
  - Removes inactive packages on the device.
- **Deactivate**
  - Deactivates active packages on the device.

# Schedule an Install

- Invoked from the Host Dashboard's Action menu.
- Select an install action. Multiple install actions may be selected at once.
- Depending on the selected install action, software packages can be selected from Server Repository, CCO, Inactive Packages, or Install History.
- If a dependency is selected, the scheduled installation will not proceed until the dependency is completed successfully. The dependency can only be specified when only one install action is selected (not available for batch installs or when multiple install actions are specified).
- Click the Calendar icon to change the scheduled time. By default, it is the current date and time.

Schedule Install > Region: Cisco Telecom West Coast > Host: ASR9K-PE1-R0 (ASR9K-PX-5.3.1)

Install Action	<input type="text" value="× Install Add"/>
Select From	 Server Repository  CCO
Software Packages	<div>asr9k-px-5.3.1.CSCuu96153.pie asr9k-px-5.3.1.CSCuw01521.pie asr9k-px-5.3.1.CSCuu77478.pie</div>
Server Repository: Terastream-tme(17220168195)	
Scheduled Time	<input type="text" value="10/08/2015 10:52 AM"/> 
Dependency	<input type="text" value="None"/>
<div>Schedule Cancel</div>	

# Browse Server Repository

- Invoked by clicking the Server Repository icon on the Schedule Install page.
- Select a server repository.
- Use the Server Directory selector to navigate to the desired directory on the server repository. The software packages in the selected directory will be displayed in the dual list box.
- For Software upgrade, enter the target software release and click Auto Select. This will select packages from the Available Packages list box which match the device software packages.

Select Software Packages > Host: ASR9K-PE1-R0 (ASR9K-PX-5.3.1)

Server Repository

Terastream-tme(17220168195)

Server Directory

5.3.2.18l

Target Software Release

Software Upgrade Only (enter X.X.X format)

Auto Select

Available Packages - showing 19

Filter

asr9k-5.3.2.18l.SIT\_IMAGE-V2.tar  
asr9k-fpd-px.pie-5.3.2.18l.SIT\_IMAGE  
asr9k-k9sec-px.pie-5.3.2.18l.SIT\_IMAGE  
asr9k-mcast-px.pie-5.3.2.18l.SIT\_IMAGE  
asr9k-mgbl-px.pie-5.3.2.18l.SIT\_IMAGE  
asr9k-mini-px.pie-5.3.2.18l.SIT\_IMAGE  
asr9k-optic-px.pie-5.3.2.18l.SIT\_IMAGE  
asr9k-px-5.3.2.18l.CSCuv39804-0.0.3.i.pie  
asr9k-px-5.3.2.18l.CSCuv57878-0.0.3.i.pie  
asr9k-px-5.3.2.18l.CSCuv60802-0.0.2.d.pie

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Selected Packages - showing 0

Filter

Save

Cancel

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# Browse CCO

- Invoked by clicking the CCO icon on the Schedule Install page.
- Use the Lookup SMUs button to navigate to the desired platform and release.
- Select the server repository where the downloaded SMUs should be stored.
- Select the SMUs or Service Packs of interest.

The screenshot shows the 'Browse CCO' interface. At the top, a 'Browse CCO' button is highlighted with a callout: 'Navigate to different Platforms and Releases'. To its right is a filter dropdown set to 'Optimal'. Below these are two dropdown menus: 'Server Repository' (set to 'Terastream-tme(17220168195)') and 'Server Directory' (empty). A search bar is on the right. Below the filters, a breadcrumb shows 'ASR9K-PX-5.3.1 > SMUs 26' and 'Service Packs 0'. A 'records per page' selector is set to '100'. A callout 'Filter the list by keywords' points to the search bar. The main table has columns: 'Posted Date', 'SMU ID', 'DDTS', 'Type', 'Description', 'Impact', and 'Function Areas'. Three rows are visible, each with a 'Click to Select' callout pointing to a checkbox in the first column.

	Posted Date	SMU ID	DDTS	Type	Description	Impact	Function Areas
<input checked="" type="checkbox"/>	10/05/2015	AA10232	CSCuu96153	Recommended	FD leaks on bfd_agent process when executing 'show bfd summary' CLI	Needs Reboot	BFD
<input checked="" type="checkbox"/>	10/05/2015	AA10447	CSCuw01521	Recommended	Traffic is dropped due to no NRLDI info for certain prefixes	Needs Reboot	INFRASTR
<input type="checkbox"/>	10/05/2015	AA10398	CSCuu77478	Recommended	MPLS LDP crash due to invalid packet IOS-XR 5.1.3	Traffic Loss	LDP

# Browse Inactive Packages

- Invoked by clicking the Inactive Pkgs icon on the Schedule Install page.
- The Last Successful Retrieval text field displays the elapsed time since the software packages was last successfully retrieved.
- Click the Retrieve Latest Software icon to retrieve latest software if necessary.

Install Action: Activate



Host

ASR9K-PE1-R0

Last Successful Retrieval

11h 3m 15s ago



Target Software Release

5.1.3

Auto Select

Available Inactive-Packages - showing 75

Filter

asr9k-9000v-nV-px-5.1.3  
asr9k-9000v-nV-px-5.3.1  
asr9k-asr901-nV-px-5.1.3  
asr9k-asr901-nV-px-5.3.1  
asr9k-asr903-nV-px-5.1.3  
asr9k-asr903-nV-px-5.3.1  
asr9k-bng-px-5.1.3  
asr9k-bng-px-5.3.1  
asr9k-doc-px-5.1.0  
asr9k-fpd-px-5.1.0



Selected Inactive-Packages - showing 6

Filter

asr9k-doc-px-5.1.3  
asr9k-k9sec-px-5.1.3  
asr9k-mcast-px-5.1.3  
asr9k-mgbl-px-5.1.3  
asr9k-mini-px-5.1.3  
asr9k-optic-px-5.1.3

Save

Cancel

# Browse Install History

- Invoked by clicking the Browse Install History icon on the Schedule Install page.
- Select the packages from one of the successful Install Add operations.

Select from Install History

X

Host

ASR9K-PE1-R0

100 records per page

Search:

Packages	Installed Time	Installed By
<input type="checkbox"/> 4_3_4_smu.tar	09/11/2015 12:57 AM	root
<input type="checkbox"/> asr9k-doc-px.pie-5.1.3	09/07/2015 10:29 AM	root
<input type="checkbox"/> asr9k-px-5.1.0.CSCut30136.pie asr9k-px-5.1.0.CSCul26794.pie asr9k-px-5.1.0.CSCul19600.pie	08/23/2015 08:46 PM	root
<input type="checkbox"/> XR510FCS.tar	08/10/2015 04:12 AM	root

Showing 1 to 51 of 51 entries

← Previous

1

Next →

Save

Cancel



# Schedule Install – Prerequisite Checks

After clicking the Schedule button, CSM Server performs the following functions:

- It checks for missing pre-requisites on selected software packages.
- It determines whether selected software packages are on the server repository. If they are not, CSM Server prompts the user to download them.
- The scheduled install will not proceed at its scheduled time until the software packages are successfully downloaded and copied to the server repository.

Following pre-requisite(s) were not selected, but should be included. ×

asr9k-px-4.2.3.CSCug38659.pie  
asr9k-px-4.2.3.CSCul52017.pie  
asr9k-px-4.2.3.CSCui33805.pie  
asr9k-px-4.2.3.CSCum86633.pie  
asr9k-px-4.2.3.CSCue19326.pie  
asr9k-px-4.2.3.CSCum69972.pie

Include Pre-requisites

Ignore

Cancel

Following files are missing on the server repository. Those that are identified as 'Downloadable' × can be downloaded from CCO. If there is an scheduled installation that depends on these files, it will not proceed until the files are successfully downloaded and copied to the server repository.

asr9k-px-4.2.3.CSCur33931.pie (Downloadable)  
asr9k-px-4.2.3.CSCug38659.pie (Downloadable)  
asr9k-px-4.2.3.CSCuo95165.pie (Downloadable)  
asr9k-px-4.2.3.CSCue19326.pie (Downloadable)  
asr9k-px-4.2.3.CSCum69972.pie (Downloadable)

Download

Ignore

Cancel

# Installation Dependency

- A dependency can be specified when creating a scheduled install. For example, Install Activate should not be performed unless Install Add is successful.
- If an installation failed, any scheduled install that has the failed installation as its dependency will not execute.
- When multiple install actions or 'ALL' is selected, CSM Server will create the dependency automatically.
- Deleting a scheduled install will also delete all of its dependencies.

Scheduled Time

10/08/2015 11:58 AM

Dependency

✓ None

Pre-Upgrade - 10/15/2015 10:30 AM

Install Add - 10/15/2015 10:30 AM

Activate - 10/15/2015 10:30 AM

Post-Upgrade - 10/15/2015 10:30 AM

Commit - 10/15/2015 10:30 AM

Scheduled5

In Progress0

Failed0

Completed

10

 records per page

Hostname	Install Action	Dependency
ASR9K-PE1-R0	Pre-Upgrade	
ASR9K-PE1-R0	Install Add	Another Installation
ASR9K-PE1-R0	Activate	Another Installation
ASR9K-PE1-R0	Post-Upgrade	Another Installation

# Schedule Batch Installation

# Schedule Batch Installs

- Invoked by clicking the Schedule Batch Installs icon on the home page or the Action button on the Install Dashboard page.
- Select a region of interest.
- Select a role and/or software version to further filter hosts.
- All managed hosts belonging to the selected region and role will be displayed.
- Use the dual list box to select multiple hosts for the same scheduled installation.
- Click the Calendar icon to change the scheduled time. By default, it is the current date and time.

### Select Hosts

Region

Cisco Telecom West Coast

Role

Any

Software Version

asr9k-px 5.3.1

Available Hosts - showing 2

Filter

ASR9K-PE1-R0  
ASR9K-PE4

Selected Hosts - showing 0

Filter

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### Schedule Batch Installs

Install Action

Select Desirable Install Actions

Scheduled Time

10/08/2015 11:55 AM

