

# Additional Topics

CCO

Password Encryption

Security Privileges

System & Session Logs

Navigate Between Hosts

Software Inventory

Dynamic Views

# CCO

- From the CCO Lookup menu, users can query SMUs and Service Packs information on various IOS-XR platforms and releases.
- Go to Tools – User Preferences to exclude certain platforms and releases from displaying under the CCO Lookup menu.
- If a SMU has already been downloaded to the CSM Server internal repository, a green check icon is displayed.
- Download a SMU by checking the checkbox and selecting Action – Download Selected Files. Then, select the server repository that will store the downloaded image.

The screenshot shows the Cisco CCO Lookup web interface. The top navigation bar includes 'CSM Server', 'Home', 'CCO Lookup', and 'Dashboards'. A search bar is present on the right. The 'CCO Lookup' dropdown menu is open, showing a list of platforms (ASR9K-P, ASR9K-PX, CRS-PX, NCS6K, NCS6K-SYSADMIN) and a list of releases (5.3.1, 5.3.0, 5.2.4, 5.2.2, 5.2.0, 5.1.4, 5.1.3, 5.1.2, 5.1.11, 5.1.1, 4.3.2, 4.3.1, 4.3.0, 4.2.3, 4.2.1). The main content area displays a table of SMUs for 'ASR9K-PX-5.3.1'. The table has columns for 'Status', 'Posted Date', 'SMU ID', 'DDTS', and 'Type'. The first row shows a green checkmark in the 'Status' column, indicating a successful download. A callout 'SMU Download Status' points to this icon. The second row shows a yellow highlight, indicating a SMU posted within a week, with a callout 'Yellow Highlight for SMUs Posted within a Week'. The third row shows a yellow highlight and a 'View Bug Info' callout. The fourth row shows a yellow highlight and a 'View Additional SMU Info' callout. The table also includes a 'Type' column with values like 'Optional' and 'Hitless'. A 'Search' bar is visible on the right side of the table.

Navigate Different Platforms and Releases

SMU Download Status

View Bug Info

View Additional SMU Info

Yellow Highlight for SMUs Posted within a Week

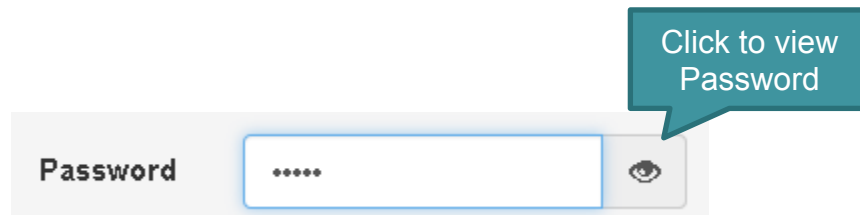
# Password Encryption

- **User Password**

- All user passwords are encrypted with a one-way hash algorithm. It is impossible to decrypt the password. If a user forgets the password, the administrator will have to reset it.

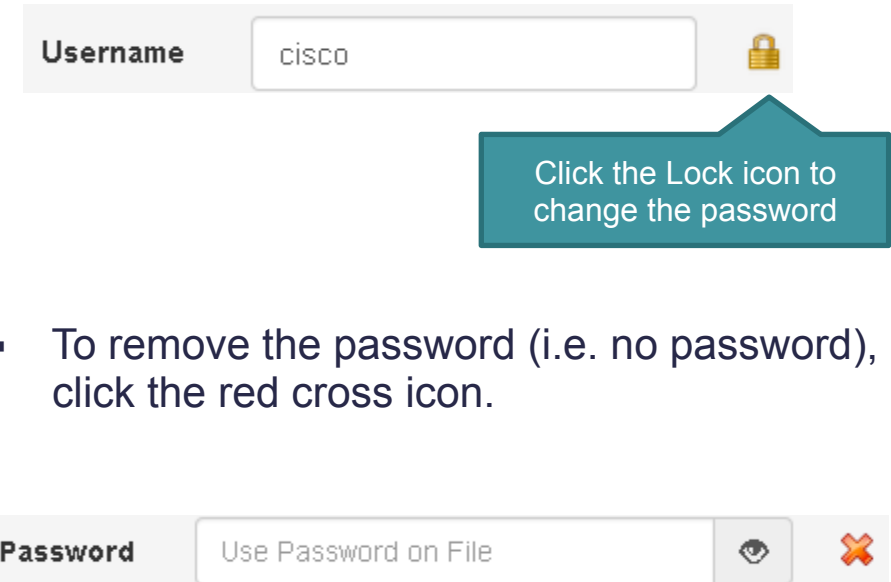
- **Other Passwords**

- Passwords for hosts, jump servers, server repositories, and SMTP mail server are encrypted as well.
- When a password is first defined, it will be masked by dots. To see the password unencrypted, click the eye icon.



- **Saved Passwords**

- Once the password is saved, it will no longer be viewable. Instead, the password field shows 'Use Password on File'. To modify the password, click the lock icon next to the Username field. Then, enter the new password.



- To remove the password (i.e. no password), click the red cross icon.

# Security Privileges

## Four levels of security privileges:

- **Admin**
  - Users with this privilege have no limitation
- **Network Admin**
  - Users with this privilege can create hosts, jump servers, regions, and server repositories
  - Users with this privilege can schedule/modify/delete installations
  - They cannot access the Admin related functions
- **Operator**
  - Users with this privilege can only schedule/modify/delete installations
  - They cannot create hosts, jump servers, regions, and server repositories
- **Viewer**
  - Users with this privilege can only view information

# System & Session Logs

- **System Logs**

- Click Admin – System Logs from the main menu bar.
- These logs are created when exceptions are encountered. They can be used for system debugging. These exceptions may or may not affect system stability and performance.

- **Session Logs**

- Session logs are created during software inventory or installation operation.
- CSM Server uses the Accelerated Upgrade Tool (AUT) to perform software inventory and installation. These logs provide valuable insights on what has taken place on the router.
- If an error condition happens, a file called “expect\_out.log.error” will be created. This file provides information on error encountered.


## System Logs


Search:


	Create Time	Trace
Inventory job = 642	10/31/2014 12:00 AM	<a href="#">View</a>
Inventory job = 641	10/31/2014 12:00 AM	<a href="#">View</a>


## Session Logs: ConPE\_dmahisek\_PE8


Session Log Files


 autlogs/1\_71\_53\_12-2015\_01\_20\_18\_51\_15-11/aut\_debug.log

 autlogs/1\_71\_53\_12-2015\_01\_20\_18\_51\_15-11/aut\_output

 autlogs/1\_71\_53\_12-2015\_01\_20\_18\_51\_15-11/config\_backup.log

 autlogs/1\_71\_53\_12-2015\_01\_20\_18\_51\_15-11/expect\_out.log

 autlogs/1\_71\_53\_12-2015\_01\_20\_18\_51\_15-11/expect\_out.log.error

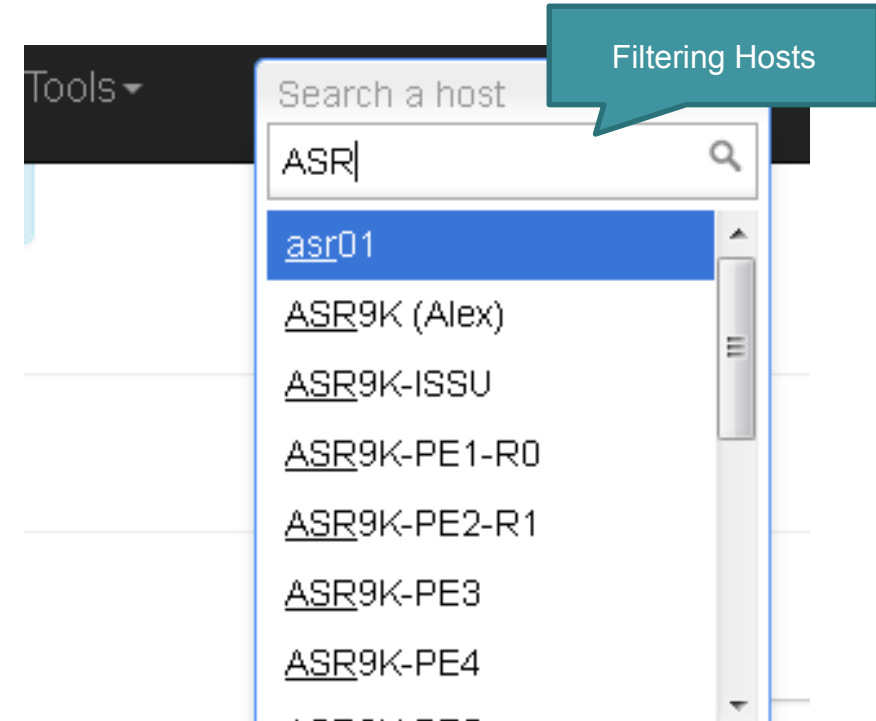
 \_20\_18\_51\_15-11/session.log

Open File

Download File

# Navigate Between Hosts

- **Search a host**
  - The Search a host bar provides a quick way to navigate in real-time between managed hosts. When a host is selected, the Host Dashboard is displayed.
  - Further filtering can be done by typing the string matching part of the hostname.



# Software Inventory

- Through the Admin Dashboard, the administrator can enable software inventory and specify the hour of the day to perform this operation.
- When the hour is reached, CSM Dispatcher will connect to the managed hosts and collect software inventory information.
- Hosts that fail the software inventory retrieval will have a red highlight on the Last Successful Retrieval field on the Home page.
- Software Inventory history can be viewed on the Host Dashboard. The Last Successful Retrieval label provides information on the last successful software inventory time.
- To retrieve the latest software, click Action – Retrieve Latest Software from the Host Dashboard.

# 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

10/31/2014 01:57 PM

Dependency

None

None

Install Add - 10/31/2014 03:50 AM

Activate - 10/31/2014 03:50 AM

Post-Upgrade - 10/31/2014 03:50 AM

Scheduled 2

In Progress 0

Failed 1

Completed (showing

10


 records per page

Hostname	Install Action	Dependency
WEST-PE-ASR9K-2	Activate	Yes



# Dynamic Views

- The Host, Install, and SMU Download Dashboards are dynamic views. They are updated in every 10 seconds.
- When a scheduled install is running, a spinner icon will appear next to the scheduled install on the Host Dashboard.
- The running scheduled install will also appear under the In Progress tab on the Install Dashboard.
- In order to reduce the number of records sent between client and CSM Server, the default number of records to return is 25.


Scheduled/Failed Installations		
Install Action	Scheduled Time	Action
Pre-Upgrade 	08/19/2015 03:05 PM	Delete

Scheduled 0

In Progress 1

Failed 0

Completed (showing 10 of 18)

10  records per page

Hostname	Install Action	Packages	Start Time	Status
1.1.1.1	Install Add	disk0:asr9k-mgbl-px-4.2.3	10/31/2014 02:25 PM	processing

Status will be updated

Scheduled 2	In Progress 0	Failed 1	Completed (showing 25 of 240)
Retrieve Last 25 Records:		25	

By default, 25 records are returned

# About CSM Server

Click to Display



## Cisco Software Manager Server

Automation and Orchestration Framework

Simultaneously deploy IOS-XR SMLIs & software upgrades



Software Build Date

Build Date: 08/20/2015

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Thank you.

