

# Software Conformance


# Software Conformance

- To access the software conformance function, click Conformance in the main menu bar.
- This function allows users to create software profiles and assign software profiles to hosts. Software profiles can be used to generate a conformance report, where CSM Server compares packages on a host to packages listed in the software profile.
- The Conformance report contains individual device conformance statuses and indicates which software packages, if any, are missing on those devices.

Conformance Reports

Software Profiles

Create ▾

Action  ▾

Previously Run Reports

04/10/2017 06:37 PM - My Profile 2 ▾

Make Conform

Export

Re-Run

Run Report

Results:

# Create Software Profile

## Create Software Profile


**Profile Name**


5.3.0 Baseline Packages

**Description**

For 5.3.0 Release

**Select From**

 Server Repository

 CCO

**Software Packages**

asr9k-fpd-px-5.3.0.pie  
asr9k-mcast-px-5.3.0.pie  
asr9k-mgbl-px-5.3.0.pie  
asr9k-mini-px-5.3.0.pie  
asr9k-mpls-px-5.3.0.pie

Validate

Save

Cancel

- From the Create tab, click Software Profile.
- Select software packages either from a server repository or directly from CCO. They can also be entered by manual typing in the textbox.
- The software packages will be used to match against devices' software packages.
- Click Validate to resolve missing pre-requisites or superseded SMUs/SPs.
- The newly created software profile will be displayed on the Software Profiles tab.

# Assign Software Profile to Hosts

The screenshot shows the 'Assign Software Profile to Hosts' dialog with the 'SELECT SOFTWARE PROFILE' tab active. A 'Software Profile' dropdown menu is set to '5.3.3 Profile'. Below it is a 'Search:' input field. A table titled 'Software Packages' lists three entries: 'asr9k-px-5.3.3.CSCux53896.pie', 'asr9k-px-5.3.3.CSCuy63501.pie', and 'asr9k-px-5.3.3.CSCuz70142.pie'. At the bottom, it says 'Showing 1 to 3 of 3 entries' and has a blue button with the number '1'.

Software Packages
asr9k-px-5.3.3.CSCux53896.pie
asr9k-px-5.3.3.CSCuy63501.pie
asr9k-px-5.3.3.CSCuz70142.pie

The screenshot shows the 'Assign Software Profile to Hosts' dialog with the 'SELECT HOSTS' tab active. It prompts the user to 'Use the filters below to select hosts'. There are four filter fields: 'Platform' (dropdown set to 'ASR9K'), 'Software Version' (text input with '5.3.3' and a clear button), 'Region' (empty text input), and 'Role' (empty text input). At the bottom are 'Previous' and 'Finish' buttons.

Use the filters below to select hosts

Platform: ASR9K

Software Version: 5.3.3

Region:

Role:

- Click the Action button and select Assign Software Profile to Hosts.
- **Select Software Profile**
  - Select a software profile that should be assigned to selected hosts.
- **Select Hosts**
  - Select hosts based on the available filters such as Platform, Software Version, Region, and Role.
  - Upon clicking Finish, CSM Server will display a confirmation dialog. Click OK to assign the selected software profile to hosts that satisfy the selected criteria.

# View Software Profile Assignments

Software Profile 5.3.3 Profile X

10 records per page Search:

Hostname	Region	Roles	Chassis	Platform	Software	Action
corfu	Brussels Lab		ASR-9904	ASR9K	5.3.3	<a href="#">Remove</a>
R2	My Region		ASR-9006	ASR9K	5.3.3	<a href="#">Remove</a>
R3	My Region		ASR-9006	ASR9K	5.3.3	<a href="#">Remove</a>

Showing 1 to 3 of 3 entries

← Previous 1 Next →

- Click the Action button, select View Software Profile Assignments.
- CSM Server will display all the hosts that are assigned to the selected software profile.
- Click Remove to remove the software profile assignment.

# Run/Re-Run Report

- From the Conformance Report tab, click the Run Report button.
- The Conformance Report Wizard will prompt for the software profile and matching criteria.
- Click Next to select the devices to match against the select software profile.
- Click the Re-Run button to re-run a report with the same selected devices.

The screenshot shows the 'Conformance Report' wizard in the 'GENERAL' tab. It features a 'Software Profile' dropdown set to '5.3.0 PE Devices'. Below this, there are two sections: 'Match Criteria' with two radio buttons (the second one, 'Software packages that are in active state', is selected) and 'Host Selection Criteria' with two radio buttons (the second one, 'Select hosts manually', is selected). A blue 'Next' button is located at the bottom right.

The screenshot shows the 'Conformance Report' wizard in the 'SELECT HOSTS' tab. It includes input fields for 'Platform' (ASR9K), 'Software Version' (5.3.3), 'Region', and 'Role', followed by a 'Retrieve' button. Below these are two panels: 'Available Hosts - showing 3' and 'Selected Hosts - showing 1'. The 'Available Hosts' panel has a filter and a list containing 'Alex Host', 'corfu.cisco.com', and 'east-pe-asr9k-3'. The 'Selected Hosts' panel has a filter and a list containing 'R2'. Between the panels are navigation buttons: a list icon, a right arrow, a left arrow, and a list icon with a left arrow. At the bottom are 'Previous' and 'Finish' buttons.

# Conformance Report tab

Conformance Reports

Software Profiles

Create ▾

Previously Run Reports

2017-03-06 11:55:18 - 5.3.0 PE Devices ▾

Export

Re-Run

Run Report

Results:

View Software Profile Used ▾

Summary

Total Hosts: 1

Match Criteria: Active Packages

1 host is not in complete conformance (see the 'Missing Packages' column).

100 ▾ records per page

Search:

Hostname ▴	Platform ▴	Software ▴	Active Packages	Missing Packages	Is Conformed ▴	Action
R2	ASR9K	5.3.3	asr9k-doc-px-5.3.3 asr9k-fpd-px-5.3.3 asr9k-k9sec-px-5.3.3 asr9k-li-px-5.3.3 asr9k-mcast-px-5.3.3 asr9k-mgbl-px-5.3.3 asr9k-mini-px-5.3.3 asr9k-mpls-px-5.3.3	asr9k-px-5.3.0.CSCur01572.pie asr9k-px-5.3.0.CSCur83427.pie asr9k-px-5.3.0.CSCus17352.pie asr9k-px-5.3.0.CSCus20753.pie asr9k-px-5.3.0.CSCus38150.pie asr9k-px-5.3.0.CSCus61863.pie asr9k-px-5.3.0.CSCus75097.pie asr9k-px-5.3.0.CSCus77635.pie asr9k-px-5.3.0.CSCus91908.pie	No (10h 50m 38s ago)	Make Conform

ormance/#

- By default, the Conformance Report tab displays the latest run report.
- Up to 10 conformance reports are stored in the database. The earliest report will be purged to make room for a new report if the maximum is reached.
- Click the View Software Profile Used button to see the software packages defined in the software profile.
- Click the Make Conform button to install missing packages onto the device.

# Conformance Report – Batch Make Conform (Licensed Feature)

- The Batch Make Conform Dialog can be invoked by clicking the Make Conform button next to the Export button. It can be used to create installation jobs on multiple non-conforming hosts.

Batch Make Conform

SELECT HOSTS

SELECT INSTALL ACTION

Available Non-Conforming-Hosts -  
showing 2

RJ|

RJIL-AG2-1  
RJIL-AG2-2

≡ >

>

<

< ≡

Selected Non-Conforming-Hosts -  
showing 2

Filter

corfu.cisco.com  
east-pe-asr9k-3

Next

Previous

Finish

Batch Make Conform

SELECT HOSTS

SELECT INSTALL ACTION

Install Action

✕ Add

Server Repository:

Scheduled Time

04/13/2017 05:32 PM

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# Conformance Report – Make Conform

x


## Make Conform: R2

Install Action

✕ Add

Software Packages

asr9k-px-5.3.3.CSCux60676.pie  
asr9k-px-5.3.3.CSCvb22879.pie  
asr9k-px-5.3.3.CSCvc37611.pie

Server Repository: TME FTP   
Server Directory: 5.1.1.50U

Scheduled Time

04/13/2017 05:32 PM

Schedule

Cancel

- The Make Conform Dialog can be invoked by clicking the Make Conform button on each conformance report row. It provides a means to easily install the missing packages onto a device as indicated on the conformance report.

# Export

## Software Conformance Report

10/06/2015 04:38 PM

### Summary:

Total Hosts: 6

Match Criteria: Active Packages

Results:

4 hosts are not in complete conformance (see the 'Missing Packages' column)

1 hosts failed last software inventory retrieval (see '\*' in the 'Conformed' column)

### Software Profile: 5.3.0 Baseline Packages

asr9k-fpd-px-5.3.0.pie  
asr9k-mcast-px-5.3.0.pie  
asr9k-mgbl-px-5.3.0.pie  
asr9k-mini-px-5.3.0.pie  
asr9k-mpls-px-5.3.0.pie

Hostname	Software	Active Packages	Missing Packages	Conformed
ommaurya-IM5455-P2	asr9k-px 5.3.1.19J	asr9k-fpd-px-5.3.1.19J asr9k-mcast-px-5.3.1.19J asr9k-mgbl-px-5.3.1.19J asr9k-mini-px-5.3.1.19J asr9k-mpls-px-5.3.1.19J asr9k-px-5.3.1.19J.CSCus85349-0.0.7.i asr9k-px-5.3.1.19J.CSCus96502-0.0.6.i asr9k-px-5.3.1.19J.CSCus97573-0.0.2.i	asr9k-fpd-px-5.3.0.pie asr9k-mcast-px-5.3.0.pie asr9k-mgbl-px-5.3.0.pie asr9k-mini-px-5.3.0.pie asr9k-mpls-px-5.3.0.pie	No (16h 26m 48s ago)
ommaurya-VKG03-PE1	asr9k-px 5.3.0	asr9k-fpd-px-5.3.0 (matched) asr9k-mcast-px-5.3.0 (matched) asr9k-mgbl-px-5.3.0 (matched) asr9k-mini-px-5.3.0 (matched) asr9k-mpls-px-5.3.0 (matched)		Yes (16h 28m 20s ago)
ommaurya-VKG11-P1	asr9k-px 5.3.0	asr9k-mcast-px-5.3.0 (matched) asr9k-mgbl-px-5.3.0 (matched) asr9k-mini-px-5.3.0 (matched) asr9k-mpls-px-5.3.0 (matched)	asr9k-fpd-px-5.3.0.pie	No (16h 27m 42s ago)
ommaurya-VKG19-CE2	asr9k-px 4.2.1	asr9k-9000v-nV-px-4.2.1 asr9k-mcast-px-4.2.1 asr9k-mgbl-px-4.2.1 asr9k-mini-px-4.2.1 asr9k-mpls-px-4.2.1	asr9k-fpd-px-5.3.0.pie asr9k-mcast-px-5.3.0.pie asr9k-mgbl-px-5.3.0.pie asr9k-mini-px-5.3.0.pie asr9k-mpls-px-5.3.0.pie	No (267d 15h 35m ago) *

- From the Conformance Report tab, click the Export button.
- A Microsoft Excel-compatible file will be generated and downloaded by the browser.
- The Conformed column displays the device conformance status. It also displays the latest software inventory retrieval time. An '\*' indicates a failed retrieval.