

September 27, 2013

Corporate Headquarters Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA http://www.cisco.com

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Introduction

This document provides information about the CSPC 2.2 release. If you want information about the previous CSPC 2.1 T1 release, then go to the following URL:

http://www.cisco.com/en/US/docs/net_mgmt/smart_portal/Common_Services_Platform_Collector_Quick_St art_Guide_2.1T1.pdf

The Cisco smart portal provides data collection and serviceability that works in conjunction with one or more instances of Smart Collector(s) to provide centralized data collection and reporting across multiple customer sites. The Cisco IT backend stores the data received from the associated Smart Collectors and uses that data to summarize the networks health. The Smart Collector also provides the capability to get and display various serviceability log files ensuring that the administrators are notified of issues or status as quickly as possible.

Smart Collector is a generic reference to the Common Services Platform Collector (CSP-C). There are two image options for CSP-C:

- <u>Accessing PSS 1.x Images</u>
- Using a CSP-C ISO Image on Target Hardware.
- Using VMware to run a CSP-C image virtually on one of the following VMware platforms:
 - VMware vSphere Hypervisor <u>ESXi 4.x</u> virtual platform
 - VMware vSphere Hypervisor ESXi 5.x virtual platform.

This Quick Start Guide is a compilation of steps that provides a method for performing the following tasks:

- How to access the download images (<u>download</u> versus <u>add-to-cart</u>)
- .Explains the processes for using the ISO image option, which includes the following items:
 - How to Get the Images
 - o Install the ISO Image onto the CSP-C Collector
 - o Configure the CSP-C Collector IP Address on to the Target Hardware
- Covers the steps for using one of the VMware virtualization platforms, which includes:
 - Error! Reference source not found.
 - o <u>VMware</u>
- <u>CSP-C Registration</u>
- <u>CSP-C configuration and Device Credentials</u>
- Working with the <u>Rules Package</u> (Installing / Updating / Deleting)
- <u>CSPC Collector Upgrade</u>
- Software Image Upgrades
- Inventory Upload
- <u>Minimum Collection Profile</u>
- <u>Multi-Service Collection</u>

This Quick Start Guide also provides information about the following items:

- <u>CLI Commands</u> (Configure IP address, Start/stop data collection, View logs)
- Basic Troubleshooting
- Best Practices

Accessing PSS 1.x Images

There are several types of images that are available in the PSS 1.x release:

- CSP-C Intel ISO Image for PSS for UCS C200 M2.
- CSP-C Rules for PSS (the CSP-C Rules are automatically installed; they are part of the CSP-C software image).
- VMware Images for VMware vSphere Hypervisor releases.
- DPA CLI's of Windows for PSS (optional).

The next section describes the different ways to go to the location of the images.

How to Get the Images

There are two different ways to access the various images. Both ways get you to the PSS 1.0 image download page.

To download a single image file, perform the following steps:

Go to URL

http://www.cisco.com/cisco/software/release.html?mdfid=283114009&catid=268439477&softwareid=283308676 &release=Collector%20Server&rellifecycle=&relind=AVAILABLE&reltype=all;

Download Software

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Smart collector

Search	Release Collector Server			
Expand All Collapse All	File Information	Release Date 🔻	Size	
 Latest Releases Collector Server All Releases PSS 1.0 Collector Server Other Files Collector Client 	Server Image (OVF10) for VmWare ESXi(4.x & 5.0) platform (CSPC 2.2)- includ es latest rules package PSS-CSPCServer-2.2-ESXi-OVF10.ova	17-MAY-2013	7340.83 MB	Download Add to cart
	Server Image (ISO) for Intel based (incl. UCS M2) machines (CSPC 2.2)- includ es latest rules package PSS-CSPCServer-2.2-Intel.iso	17-MAY-2013	2489.26 MB	Download Add to cart
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	Server Image (VMDK) for VMWare VmPlayer v4.0 platform (CSPC 2.1T1)- inclu des rules package 3.11 PSS-CSPCServer-2.1T1-Player-VMDK.zip	15-MAR-2013	5292.00 MB	Download Add to cart

Click **PSS 1.0**, and then click **Collector Server**; the Release Collector Server pane appears.



- Note You need a Cisco.com user/password and an associated contract in order to download the images. Some of the file names noted above may change as newer releases are created for the files noted above.
- Go to the images using the download link on the smart portal web interface, described next.
 - The link to the download location of the Smart Collector CSP-C ISO image, and other related images can be found on the Smart Portal Overview page.

Overview	User Registration	Smart Collector - Common Services Platform
Smart Portal Overview		
Delivering capabilities to discover, collect and network aware information.	analyze network device details and pro	vide
Learn More - Partner Support Service		
PSS Support Community		Greater Network Availability > Learn More
For more up-to-date information and other res For information about how to get access to thi <u>psscommunity@external.cisco.com</u> .		
User Registration		Resources
Self Registration Or Register Users		PSS Smart Portal Training
Asintain User Registrations		PSS API Console
Common Services Platform Collector	(CSP-C)	Download
Register CSP-C		User Guide
lanage Collectors		Smart Collector - Common (1)
nstalled Base Management, Alerts ar	nd Diagnostics	Services Platform Software
Reports		

• On the <u>smart portal Overview page</u>, in the Download section, click **Smart Collector – Common Services Platform Software**; the <u>Release PSS 1.0 page</u> appears.

Accessing Release PSS 1.0

There are several different images that are associated to the PSS 1.0 release and displayed on the Smart collector download page. To download the images perform the following steps:

Download Software			쁓 Download Cart (0 items) [-] Feedb		He
ownloads Home > Produ nart Collector Software-4 mart collector	cts > Cloud and Systems Management > Cisco Services > Cisco Smart Colle Collector Server	ctor > Smart collect	ior >		
Search	Release Collector Server				
Expand All Collapse All	File Information	Release Date 💌	Size		
 Latest Releases Collector Server All Releases ▼PSS 1.0 Collector Server Other Files Collector Client 	Server Image (OVF10) for VmWare ESXi(4.x & 5.0) platform (CSPC 2.2)- includ es latest rules package PSS-CSPCServer-2.2-ESXI-OVF10.ova	17-MAY-2013	7340.83 MB	Download Add to cart	
	Server Image (ISO) for Intel based (incl. UCS M2) machines (CSPC 2.2)- includ es latest rules package () PSS-CSPCServer-2.2-Inteliso	17-MAY-2013	2489.26 MB	Download Add to cart	
	Server Image (ISO) for Cisco UCS C2xx M3 machines with SATA drives (CSPC 2.2)- includes latest rules package PSS-CSPCServer-2.2-UCSM3.iso	17-MAY-2013	2933.60 MB	Download Add to cart	
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	Server Image (ISO) for Intel based (incl. UCS M2) machines (CSPC 2.1T1)- incl udes rules package 3.11 🚡 PSS-CSPCServer-2.1T1-Inteliso	15-MAR-2013	1592.78 MB	Download Add to cart	
	Server Image (VMDK) for VMWare VmPlayer v4.0 platform (CSPC 2.1T1)- inclu des rules package 3.11 👔 PSS-CSPCServer-2.1T1-Player-VMDK.zip	15-MAR-2013	5292.00 MB	Download Add to cart	

Click PSS 1.0, then click Collector Server; the Release Collector Server pane appears.

<u>____</u>

Note You need a Cisco.com user/password and an associated contract in order to download the images. Some of the file names noted above may change as newer releases are created for the files noted above.

The above image downloads are large, and could take quite a while to download.

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Downloads Home > Produc Smart Collector Software-C	ts> Cloud and Systems Management> Cisco Services> Cis	nart Collector > Smart collecto	rr≯		
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Collector Server Other Files Collector Client	Client Image for Windows 32 bit platforms PSS-CSPCClient-2.0.3-Win32.exe	23-APR-2012	75.45 MB	Download Add to cart	
51					

- To download the CSP-C Client, click **Collector Client**;^(B) the client image appears in the download area on the right (1) (login & valid contract are required).
- Note The Collector client is valid only CSPC 2.1T1 and earlier releases.

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	Smart Collector DPA CLIs for Windows 🝙 🕜	23-APR-2012	30.68 MB	Download
				Add to cart

- To download the Smart Collector DPA files, click **Other Files**; the following images appear in the download area on the right:
 - Smart Collector Rules (login & valid contract are required) ⁽⁵⁾



- For the CSP-C 2.1T1 release there are no Rules files to download or install. The CSP-C Rules are automatically installed; they are part of the CSP-C software image.
- Smart Collector DPA CLI's for Linux (login & valid contract are required)
- Smart Collector DPA CLI's for Windows (login & valid contract are required) 1

Image Download Methods (Download vs. Add to Cart)

There are two different ways that you can download a file on the Release PSS 1.0 page:

- **Download** this method is used for downloading a single image file.
- Add to cart this method is used for downloading multiple image files.

Download

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	Server Image (ISO) for Intel based (incl. UCS M2) machines (CSPC 2.2)- includ es latest rules package () SSICSPOServer:274 net iso	17-MAY-2013	2469.26 MB	Download Add to cart	
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- Click PSS 1.0, then click Collector Server; the Release Collector Server pane appears.
- Find the image you want to download (i.e., PSS-CSPCServer-2.2-Intel.iso image), then click the respective **Download** button; the End User License Agreement (EULA) window appears.



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- **Note** To download the software images, you must have a CCO Log In and have a valid service contract associated to your Cisco.com profile. If not you will receive an error window indicating this condition.
- To continue this download process click **Agree** for the End User License Agreement.

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- Click Download Cart, the Cart window appears.

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- You have several options on this page:
 - Download all the listed images at the same time, by clicking Download All. U
 - Download each image separately by clicking the respective Download button.
 - Add the selected product by clicking the Add Device icon ⁽³⁾
 - The Set Cisco Notification Alert icon 🕑 lets you set the notification alert for a product.
 - The Remove from the Download Cart, ^(S) removes the associated image from the Download Cart.
- After selecting one of the download options, then continue this download process at the End User License Agreement section.

End User License Agreement



- Perform one of the following tasks:
 - Click **Cisco End User License Agreement**; ⁽⁶⁾ the End User License Agreement document appears in another window or tab. After reading the EULA, return to the previous window or tab and perform the next step.
 - Click the Agree button ⁽¹⁾ the Opening PSS-CSPCServer-2.1T1-Intel.iso window appears.

Opening PSS-CSPCServer-2.2-Intel.iso	×
You have chosen to open:	
2 PSS-CSPCServer-2.2-Intel.iso	
which is a: WinZip File (2.4 GB)	
from: https://us.esd.cisco.com	
What should Firefox do with this file?	1
Open with WinZip (default)	
C Save File	
Do this <u>automatically</u> for files like this from now on.	
OK Cancel	

- Choose one of the above radio button options (i.e., Open With or Save File) then click OK; the download starts.
- The next step depends on the type image downloaded:

Default Login User Ids and Priorities

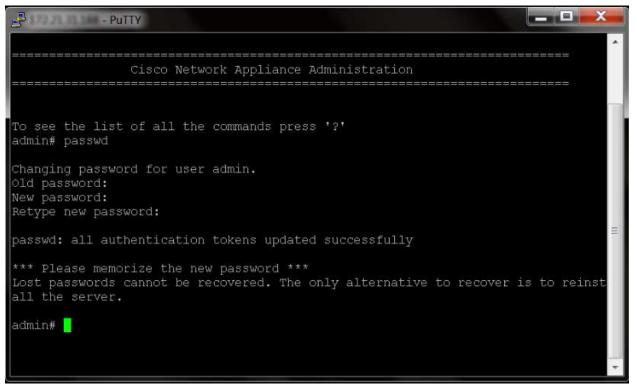
By default, six default user accounts are created by each supported Collector image (ISO, Virtual VMware Appliances (ESXi/Player)). The higher the priority number, the more privileges the user id has.

S. No.	User-ID	Password	Shell
1	root	<disabled by="" default=""></disabled>	Linux (Bash)
2	nsalogin	<disabled by="" default=""></disabled>	Linux (Bash)
3	admin	Admin!23	Admin Shell
4	cisco	<disabled by="" default=""></disabled>	Admin Shell
5	user	<disabled by="" default=""></disabled>	Admin Shell
6	viewer	<disabled by="" default=""></disabled>	Admin Shell
7	Admin123	Admin123	CSPC GUI

Note For the root:user id, direct SSH login is not allowed; see Changing the Root Password for more details on how to change the root password.

Changing the Root Password

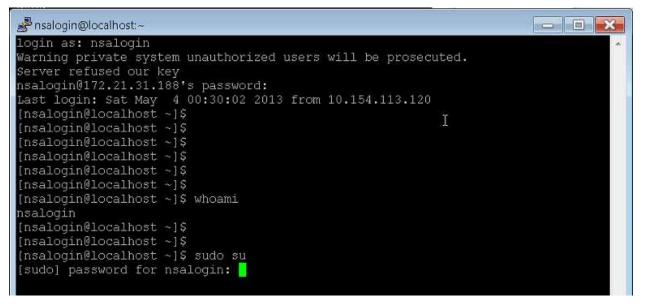
There is a special process used when changing the Root password, since a direct SSH login is not allowed. To change the Root password, perform the following steps:



- In brand new appliance state (never logged into before), only the Admin account is enabled. Login to the appliance and enter **admin** as the login id.
- Enter the password **Admin!23**; the next step is to login to nsalogin.

```
-----
PuTTY
admin# pwdreset nsalogin 180
Password for 'nsalogin' reset to - Czkmcm3* successfully
Password expires in 180 days
Shell is enabled
passwd: all authentication tokens updated successfully
*** Please memorize the new password ***
Lost passwords cannot be recovered. The only alternative to recover is to reinst
all the server.
admin#
admin# pwdreset root 180
Password for 'root' reset to - Krakyt4^ successfully
Password expires in 180 days
Shell is enabled
passwd: all authentication tokens updated successfully
*** Please memorize the new password ***
Lost passwords cannot be recovered. The only alternative to recover is to reinst
all the server.
admin#
                                                                                    leed
```

- Enter **pwdreset nsalogin 180**; this creates a new password (in example, Czkmcm3*). that is good for 180 days.
- Enter **pwdreset root 180**; this creates a new password (in example, Krakyt4^). that is good for 180 days.
- To change the root password you must first login as nsalogin, using the newly generated password.



Login as nsalogin, then enter the previously generated password (in example, Czkmcm3*).

Proot@localhost:/home/nsalogin	
[nsalogin@localhost ~]\$	*
[nsalogin@localhost ~]\$	
[nsalogin@localhost ~]\$ sudo su	
[sudo] password for nsalogin:	
[root@localhost nsalogin]#	
[root@localhost nsalogin]#	
[root@localhost nsalogin]#	
[root@localhost nsalogin]# whoami	
root	
[root@localhost nsalogin]#	
[root@localhost nsalogin]# passwd	
Changing password for user root.	
New password:	=

- Enter **sudo su**, which changes the user to root.
- Enter **passwd**, then enter a new password; the password is now changed for root.

Configure Proxy Server

To configure a proxy server you must use the following process:

- Disable Connectivity direct mode if enabled
- Configure Proxy Server Settings
- Apply XML API Code through CSPC Client
- Execute CLI based commands listed below

For CSPC with Proxy there is an additional work around that is required and you should contact SSB for assistance at http://www.cisco.com/assets/services/ts/smartnet/sch/smart_service_bureau.html.

To configure a Proxy Server, perform the following steps:

```
admin#
admin# sh ip
     Interface eth0 is up
     DHCP is disabled
            Device : eth0
            IP
            MAC
     Subnet Mask
                      : 255.255.255.0
     DNS Servers :
            Nameserver1 :
     Gateway :
            Interface : eth0
                     172.21.31.1
            Gateway
     Proxy is not configured
 dmin#
```

- Enter **show ip**; the bottom of the response indicates the proxy is not configured
- Enter **show connectivity direct-mode**; response indicates the connectivity direct-mode settings.
- If connectivity direct-mode is enabled, then you must enter "connectivity direct-mode disable".

```
admin# conf proxy
Usage:
conf proxy <ipaddr/host> <port> <user> <passwd>
user,port(default is 8080),password are optional.
Eg:
admin# conf proxy
admin# conf proxy
8080
Proxy settings saved successfully...please reboot
admin#
```

• Enter conf proxy to see the command format, then enter the required command parameters.

```
Proxy settings saved successfully...please reboot
admin#
admin# sh ip
     Interface eth0 is up
     DHCP is disabled
            Device : eth0
IP :
MAC :
     Subnet Mask
                      : 255.255.255.0
     DNS Servers :
            Nameserver1 : 100.000.000
     Gateway :
            Interface : eth0
            Gateway :
     Proxy details :
            proxyname :
proxyport : 8080
            status : enabled
admin# 📙
```

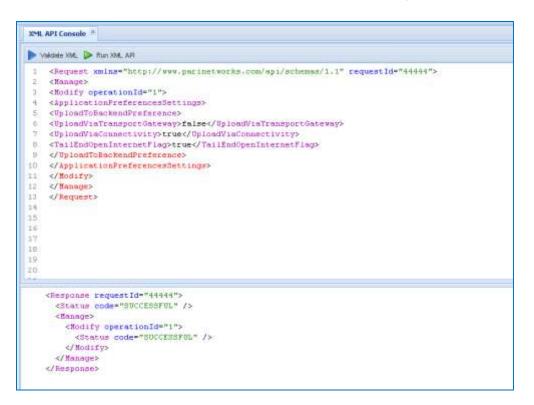
- Enter the **show ip** command to view the proxy settings.
- On the CSPC browser, go to Administration -> XML API Console feature to execute the following API command that changes the "connectivity_service_feature_mapping.properties" file through the XML API Console.

Admin123 • Settings • Management • Reports •	Administration - Help -
Dashboard Applications	Manage Users Manage Remote Authentication Servers Modify User Account Settings
Device Explorer Tree	User Session Report
1/2 😔	Modify User Preferences
UniversalGatewaysAndAccessServers	Configure Default Device Display Property
Voice	Periodic Backup Preferences
R VoiceGateways	Run Backup Now
	Restore Backup
CenericNetworkDevices	View/Installed Downloaded Patches
Relepresence	Manage Patch Files
and the second s	Comunities Durferences
an NetworkManagement	Server Log Preferences
🦓 DataCenter	Export Log Files
🦓 Wireless	Server Process Summary
Real UnifiedCommunications	Server Properties
ReviceReadyPlatform	Diagnostic Tools
Routers	XML API Console
ReplicationNetworking	Manage UI Add-ons

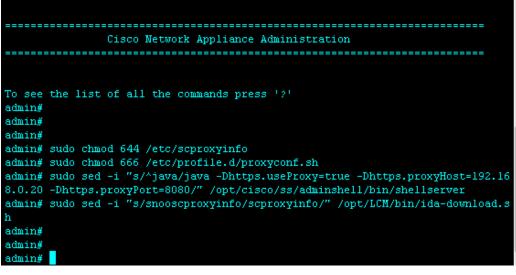
Use the API request code that is shown below:

```
<Request xmlns="http://www.parinetworks.com/api/schemas/1.1" requestId="44444">
<Manage>
<Modify operationId="1">
<ApplicationPreferencesSettings>
<UploadToBackendPreference>
<UploadViaTransportGateway>false</UploadViaTransportGateway>
<UploadViaConnectivity>true</UploadViaConnectivity>
<TailEndOpenInternetFlag>true</TailEndOpenInternetFlag>
</UploadToBackendPreference>
</ApplicationPreferencesSettings>
</Modify>
</Manage>
</Request>
```

• Copy the XML code into the Console and click Run XML API and verify the results for success.



From the admin user, run the following commands:



- 1. sudo chmod 644 /etc/scproxyinfo
- 2. sudo chmod 666 /etc/profile.d/proxyconf.sh
- 3. sudo sed -i "s/^java/java -Dhttps.useProxy=true -Dhttps.proxyHost=192.168.0.20 Dhttps.proxyPort=8080/" /opt/cisco/ss/adminshell/bin/shellserver



Note The two items listed above in red will be unique for your Proxy IP address and port number.

- 4. sudo sed -i "s/snooscproxyinfo/scproxyinfo/" /opt/LCM/bin/ida-download.sh
- 5. Reboot the collector for proxy settings to take effect.

Using an ISO Image

This section covers the following areas of using an ISO image or the UCS image:

- <u>Check CSP-C Prerequisites</u>
- Burn the Downloaded ISO Image on to a DVD
- Install the ISO Image onto the CSP-C Collector
- Perform ISO Post-Installation Tasks
- Configure the CSP-C Collector IP Address on to the Target Hardware

Check CSP-C Prerequisites

There are CSP-C pre-requisites for the following areas:

- Preparation Checklist for CSP-C Collector Install
- <u>CSP-C Collector System requirements</u>
- <u>Available Mode Requirements for Upload</u>
- Browser Requirements

Preparation Checklist for CSP-C Collector Install

To prepare for the installation of the CSP-C collector, perform the following steps:

- Procure the recommended hardware (noted in the <u>CSP-C Collector System Requirements</u> section) at the customer site.
- Make sure you have the Windows environment, with <u>DVD burning tool(s)</u>, to burn the DVD, and a DVD R/W drive.
- Procure a couple of empty writable DVD –R's to burn the ISO image.

CSP-C Collector System Requirements

To ensure the proper installation and operation of the CSP-C environment on your CSP-C collector, verify that the requirements listed in the following table are met before proceeding any further. The below requirements must be met for any component that you are using as the collector.

Component	Processor Type	Hard Drive Requirement	DRAM Memory Requirement
Intel based 32-bit platform	Intel Xeon, Celeron, Pentium type processor (Min. 2.0 GHz)	500 GB	4 GB
UCS C200 M2	Up to 2 Intel® Xeon® 5500 series multicore processors	500 GB	3 GB
UCS C22 M3	Intel® Xeon® Processor E5-2403 (10M Cache, 1.80 GHz, 6.40 GT/s Intel® QPI)	500 GB SATA drive	8 GB
UCS C220 M3	Intel® Xeon® Processor E5-2609 (10M Cache, 2.40 GHz, 6.40 GT/s Intel® QPI)	500 GB SATA drive	8 GB

Available Mode Requirements for Upload

To ensure a successful upload from a CSP-C Collector to the Cisco backend the following ports and specific IP addresses need to allow outbound access to the internet. The CSPC has several available modes that will allow for a successful upload to Cisco. ACL's on customers firewall might need to be configured to allow the CSP-C to upload successfully.



Only one of the below mode requirements is needed

IPSEC

Source IP Address	Source Port	Destination IP Address	Destination Port	Protocol	Direction
CSPC Server IP	any	72.163.7.138	5222	TCP	Outgoing
CSPC Server IP	any	72.163.7.138	7337	TCP	Outgoing
CSPC Server IP	any	72.163.7.88	3478	UDP	Outgoing
CSPC Server IP	any	72.163.7.96/27	4500	UDP	Outgoing

SSL

Source IP Address	Source Port	Destination IP Address	Destination Port	Protocol	Direction
CSPC Server IP	any	72.163.7.113	443	TCP	Outgoing

XMPP

Source IP Address	Source Port	Destination IP Address	Destination Port	Protocol	Direction
CSPC Server IP	any	72.163.7.138	5222	TCP	Outgoing
CSPC Server IP	any	72.163.7.138	7337	ТСР	Outgoing

Browser Requirements

The CSPC Web UI was tested with the browsers mentioned in the following table.

Туре	Version
Internet Explorer	8.0.x
Firefox	16.0.x

Burn the Downloaded ISO Image on to a DVD

After the download of the CSP-C ISO image is complete, then the next step is to burn the downloaded ISO image on to an empty DVD using any of the standard DVD burning tools installed on the Windows environment.

BONIC -D	STATE I	
HL-DT-ST DVDRW 9 (D:) - Please insert a disc	a d D	
Welcome to Sonic RecordNowl	2	
Getting Started		
1. Click one of the project tabs directly above this message.		
2. Pick a project and the files or songs to record.		
3. Burn if to disc.		
Quick Start Linka		
Audio CD for Car or Home CD Player		
📂 Data Disc		
S Exact Copy		
Utilies		
🚱 Erase Disc		
💕 Finalize Disc		
a lange		
S Label Disc		
	Fig 1.0	
	1 19 1.0	

Note

Figure 1.0 depicts one such tool (Sonic DVD burning tools in the Windows XP environment), or you can use Windows DVD Maker tool in the Windows 7 environment.

To burn the downloaded ISO image onto a DVD, perform the following steps:

	SONIC . DX
6	HL-DT-ST DVDRW 9 (D:) - 2 Please insert a disc
	Please insert a disc
Se	elect a Backup Project
E	Exact Copy
	Make an exact copy of a disc in your collection
	File Archive Quickly and easily archive common file types across multiple discs
	Culckly and easily archive common metypes across multiple discs
	Save Image
	Create an image of a disc and save it to your hard drive
(Sum Image
	Create a disc from an image already on your hard drive
-	.======================================



• Click **Burn Image**; **1** the Burn Image pane appears.

HL-DT-ST DVDRW 9 (D Please inselt a disc	:) -	100		
Sum Image				
1. Choose the location for the image				
C travithardened-centor53\64bit-GOLD	-IMAGE\Applications\smu	artcare_appliances\cer	nto Volpnezilla-live-2009-1	0-15-06-scgold-img iso ¥
(Browse)				
 Insert a blank or rewritable disc in the dm HL-DT-ST DVDRW 9 (D:) 	e below			
3. CBck the Burn button when you are read;	to continue			
Gancel				Burn

Fig 1.2

- Click **Browse** to specify the location of the image.
- Place an empty DVD into the DVD R/W drive.
- Select the image that was stored on the local machine (e.g. PSS-CSPCServer-2.1T1-Intel.iso).
- Click the **Burn** button.
- Once the image is successfully burned/written onto the DVD, a pop-up window appears indicating that the DVD burn option is completed.



Note The above graphics depict only the Sonic DVD tool, directions may vary for other DVD burning tools.

Install the ISO Image onto the CSP-C Collector

To install the burned DVD ISO image onto the CSP-C collector, perform the following steps:

- Make sure that the CSP-C collector is properly connected (display, keyboard, network, etc.) and ensure that the collector is powered on.
- Make sure the CSP-C collector has a DVD ROM, or that the collector is connected to an external DVD ROM.



Note Configuring an external DVD ROM to the CSP-C collector is out-of-scope of this document.

- Place the DVD that has the burned collector ISO image, from the previous steps, into the CSP-C collector DVD ROM.
- Reboot the CSP-C collector, to ensure that DVD ROM reads the ISO Image from the DVD ROM; the machine boots up with the CloneZilla interface, shown in the following graphic.

N

Note Image name in the following graphics might be different depending on what version you downloaded.

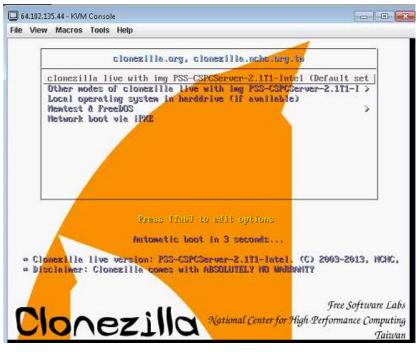
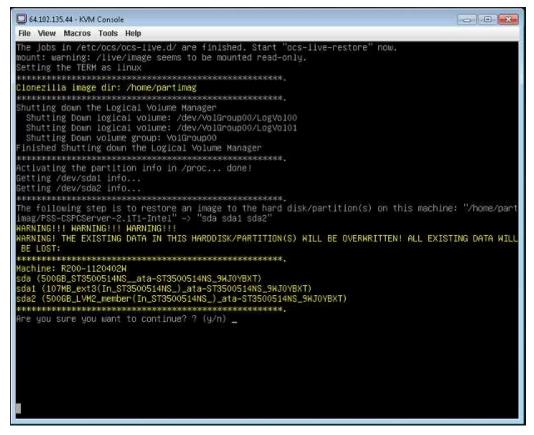


Fig 2.1

- Select the default (first option on the screen); if the user does not select the first option, the system will pick the first option by default, after a couple of seconds.
- Allow the system to boot the image until it selects all the disks and then prompts the user to enter 'Y' as shown in Fig 2.2.



• Enter Y via the console keyboard.

Fig 2.2

Allow the system to continue to boot the image, until it clears all the data on the existing disk and then writes the new image onto the disk, as shown in Fig 2.3.

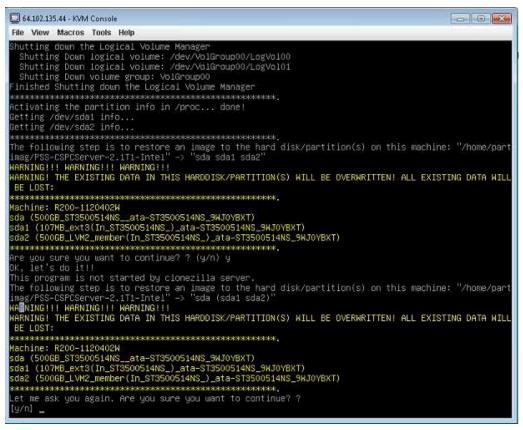


Fig 2.3

- Enter Y via console keyboard.
- Allow the system to continue to boot the image.



Note Installation flow is captured in the following screen shots, as shown in Figure 2.4 to Figure 2.7

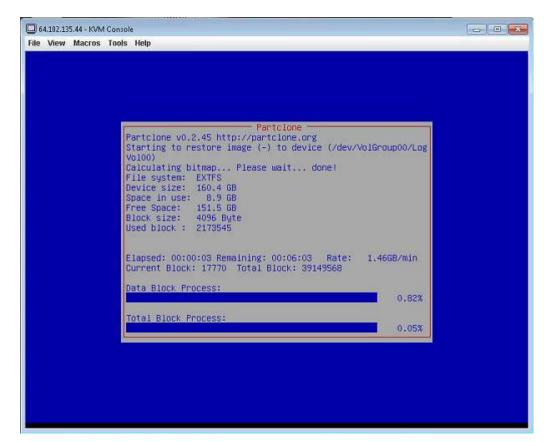
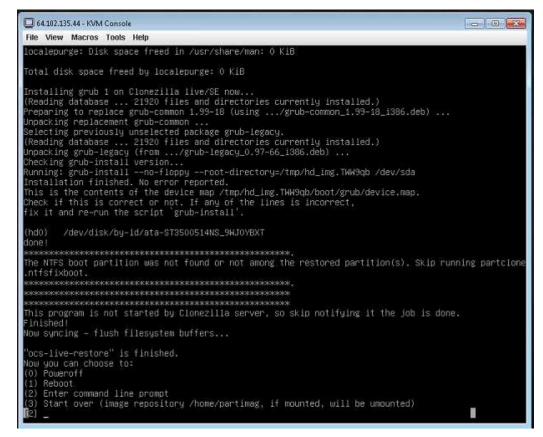


Fig 2.4

-		
Vo100)	image (-) to device (/dev/VolGr . Please wait done! GB GB GB	oup00/Log
	maining: 00:10:48 Rate: 758.7 32 Total Block: 39149568	8MB/min
Data Block Process:		7.81%
Total Block Process:		7.82%

Fig 2.5





- Once the image is properly written to disk, the system will prompt the user to eject the DVD disk placed in the DVD ROM.
- Remove the DISK and reboot the CSP-C collector, using the Reboot option as shown in Figure 2.6.
- Once the machine is rebooted, the CSP-C collector will boot with the newly created image.

Perform ISO Post-Installation Tasks

There are several tasks that need to be performed after the CSP-C collector install, please perform the following steps:

- Remove the DVD that was placed in DVD ROM. This will ensure that the CSP-C collector will not read the ISO image again when you reboot the machine.
- Reboot the CSP-C collector, to make sure that it boots up the ISO image that was previously installed from the DVD.
- The machine should boot with the default Hardened OS; once the Hardened OS is loaded, the machine will prompt the user as show in the Fig 3.1 (requesting user to login).





 You can verify the installation by logging into the CSP-C collector, using one of the default user accounts created by the collector server image.

Configure the CSP-C Collector IP Address on to the Target Hardware

An IP address needs to be configured on the hardware running the CSP-C collector. To configure the IP address on the hardware, after installing the ISO image, perform the following steps:

• Login to the CSP-C collector hardware via the connected console using admin/admin account/password; you will see the following screen.

7	 print the list of available commands
about	- about appliance
apply *	 install updates for Appliance components
check update *	 check availability of updates for Appliance components
	 purge command history for user/s
clrscr*	- clear current screen/s
collector <start restar<="" status="" stop="" td=""><td> collector start/stop/status/restart </td></start>	 collector start/stop/status/restart
	 configure auto-update policy
	- configure date and/or time
	- configure dhcp
	- configure DNS server(s)
	- configure static IP
	- configure proxy server
	 configure connection with server used for updates
그 그 10년 20년 그 10년 5년 그 그 20년 20년 그 그 전국 가장에 있는	 enable or disable connectivity direct-mode Y
	- delete configured auto-update policy
	- view SMBIOS table
	 download updates for Appliance components
	- exits from this session
	- enable/disable firewall rules
1 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	- sets the maxsize for history file
	- change hostname
	- logout from this session
	- change user passwd
	- view ping details
	- shutdown and power off the system
동생 양 가슴 가슴 감독을 만들었다. 이번 가슴 것은 것은 것은 것은 것은 것을 가지요?	 enable/disable or clear proxy
	 reset cisco/admin user passwd to random string for a specified no of days
	- reboot the system
	- reboot the system
route [-ad] <intf> <network mask=""> <</network></intf>	
	- display status of apply operation
	 display details of configured auto-update policy
	 display status of connectivity direct-mode
	 display status of connectivity direct-mode display date and time information
	 display date and time information display status of download operation
	- display status of download operation
	 display command history for user/s and size of the history file
	- display hostname
	- display network configuration
	- display logs
	 display appliance status(cpu, memory, disk)
	- display configured routes
	 display details of connection with server used for updates
	 display current NTP sync interval and last update time
	- display current timezone
	 display version for servicepack/Jeos
	- enable or disable ssh access
	- run linux command with sudo
telnet <enable disable=""></enable>	- enable or disable telnet access
	 synchronize system time with NTP server and configure NTP synchronization interval
	the standard to for the standard
timezone	- set timezone information - traceroute host

Fig 4.1 Supported CLI commands



Cisco recommends that you change the default password.

• By default the appliance uses DHCP which configures a dynamic IP address. To configure a dynamic IP address, go to the command prompt admin# and enter conf dhcp eth0





As noted in the example, it is recommended to use eth0 interface for DHCP IP address configuration.

Also, make sure that DHCP server is running in your network so the server can provide a DHCP IP address to the CSP-C collector.

If you change the IP address settings for the CSP-C collector, reboot using the reload command. When the operating system on the CSP-C collector restarts with its new IP profile, continue with the rest of the configuration.

If you do not use the DHCP option then configure a static IP address. At the command prompt admin# enter conf ip and assign an IP address (static IP Address) for this device.

admin# co	nf ip	help				
 Usage: admin# co Eg:	nf ip	<intf></intf>	<ipaddr> <netn< td=""><td>nask> <gateway></gateway></td><td></td><td></td></netn<></ipaddr>	nask> <gateway></gateway>		
admin# co	-	ethO :	XXX. XXX. XXX. XXX	5.255.255.0 192	xxx. xxx. xxx. xxx	
admin# co				5.255.255.0 19	xxx. xxx. xxx. xxx	

Fig 4.3 IP Address configuration

 Once the configuration is successful, reboot the CSP-C collector in order to use the newly configured IP address.



As noted in the above example, it is recommended to use eth0 interface on your hardware to configure the static IP Address.

Also if you change the IP address settings for the CSP-C collector, reboot using the reload command. When the operating system on the CSP-C collector restarts with its new IP profile, continue with rest of the configuration.

VMware Virtualization Platforms

There VMware platform that is supported in this release is VMware vSphere Hypervisor > VMware vSphere Hypervisor ESXi 4.0 and ESXi 5.x



This section of the guide explains how to install a CSP-C Collector image on to an "already installed" VMware platform. This guide does not provide directions on how to install the different VMware platforms; links are provided in each respective VMware group on where to find the download image and directions on how to install the downloaded VMware platform image.

VMware Virtualization ESXi Platforms

There are two VMware Virtualization ESXi Platforms that are supported in this release:

- <u>ESXi 4.1</u>
- <u>ESXi 5.0</u>

ESXi 4.1

This section provides information on the following areas:

- System Requirements
- Download the VMware vSphere Hypervisor ESXi 4.x Smart Collector Image
- Install VMware vSphere Hypervisor ESXi 4.x
- Additional Resources

System Requirements

To ensure the proper installation and operation of VMware based smart collector environment on your machine, verify that all of the following requirements are met before proceeding.

64-bit Processor

These are the requirements for a 64-bit Processor:

- VMware ESX/ESXi 4.x only installs and run on servers with 64-bit x86 CPUs.
- Known 64-bit processors:
 - All AMD Opterons support 64 bit.
 - All Intel Xeon 3000/3200, 3100/3300, 5100/5300, 5200/5400, 7100/7300, and 7200/7400 support 64-bit.
 - All Intel Nehalem support 64-bit.

RAM

The RAM requirements are 2 GB RAM minimum.

Network Adapters

The supported network adapters include the following items:

- Broadcom NetXtreme 570x gigabit controllers
- Intel PRO 1000 adapters

SCSI Adapter, Fibre Channel Adapter, or Internal RAID Controller

One or more of these controllers (any combination) can be used:

- Basic SCSI controllers are Adaptec Ultra-160 and Ultra-320, LSI Logic Fusion-MPT, and most NCR/Symbios SCSI controllers.
- Fibre Channel, see the <u>Hardware Compatibility Guide</u>.
- RAID adapters supported are HP Smart Array, Dell Perc (Adaptec RAID and LSI MegaRAID), and IBM (Adaptec) ServeRAID controllers.

Installation and Storage

The Installation and Storage requirements are:

- SCSI disk, Fibre Channel LUN, or RAID LUN with unpartitioned space. In a minimum configuration, this disk or RAID is shared between the service console and the virtual machines.
- For hardware iSCSI, a disk attached to an iSCSI controller, such as the QLogic qla405x. Software iSCSI is not supported for booting or installing ESX.
- Serial attached SCSI (SAS).
- For Serial ATA (SATA), a disk connected through supported SAS controllers or supported on-board SATA controllers. SATA disk drives connected behind supported SAS controllers or supported onboard SATA controllers.
- Supported SAS controllers include:
 - LSI1068E (LSISAS3442E)
 - o LSI1068 (SAS 5)
 - o IBM ServeRAID 8K SAS controller
 - Smart Array P400/256 controller
 - Dell PERC 5.0.1 controller
- Supported on-board SATA controllers include:
 - o Intel ICH9
 - Nvidia MCP55
 - ServerWorks HT1000

When installing ESX on SATA drives, consider these points:

- Ensure that your SATA drives are connected through supported SAS controllers or supported onboard SATA controllers.
- Do not use SATA disks to create VMFS datastores shared across multiple ESX hosts.

ATA and IDE disk drives – ESX supports installing and booting on either an ATA drive or ATA RAID is supported, but ensure that your specific drive controller is included in the supported hardware. IDE drives are supported for ESX installation and VMFS creation.

Download the VMware vSphere Hypervisor ESXi 4.x Smart Collector Image

To Install the VMware vSphere Hypervisor ESXi 4.x smart collector onto a Windows Host Machine, go to the following URL:

http://www.cisco.com/cisco/software/release.html?mdfid=283114009&catid=268439477&softwareid=283308676&release=C ollector%20Server&rellifecycle=&relind=AVAILABLE&reltype=all; the Release Collector Server images appear.

Download Software

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Downloads Home > Products > Cloud and Systems Management > Cisco Services > Cisco Smart Collector > Smart Collector Server > Smart Collector Server

Smart collector

Search	Release Collector Server						
Expand All Collapse All Latest Releases Collector Server All Releases PSS 1.0 Collector Server	File Information	4.x & 5.0) platform	Release Date 🔻	Size			
	Server Image (OVF10) for VmWare ESXi(4.) es latest rules package PSS-CSPCServer-2.2-ESXi-OVF10.ova	x & 5.0) platform (CSPC 2.2)- includ	17-MAY-2013	7340.83 MB	Download Add to cart		
Other Files () Collector Client	Server Image (ISO) for Intel based (incl. UC es latest rules package 🚡 PSS-CSPCServer-2.2-Intel.iso	CS M2) machines (CSPC 2.2)- includ	17-MAY-2013	2489.26 MB	Download Add to cart		
	Server Image (ISO) for Cisco UCS C2xx M3 2.2)- includes latest rules package 🚡 PSS-CSPCServer-2.2-UCSM3.iso	machines with SATA drives (CSPC	17-MAY-2013	2933.60 MB	Download Add to cart		
	Server Image (OVF10) for VmWare ESXi(4.) udes rules package 3.11 🖆 PSS-CSPCServer-2.1T1-ESXI-OVF10.ova	x & 5.0) platform (CSPC 2.1T1)- incl	15-MAR-2013	5325.20 MB	Download Add to cart		
	Server Image (ISO) for Intel based (incl. UC udes rules package 3.11 🔒 PSS-CSPCServer-2.1T1-Intel.iso	CSM2) machines (CSPC 2.1T1)- incl	15-MAR-2013	1592.78 MB	Download Add to cart		
	Server Image (VMDK) for VMWare Vm Play des rules package 3.11 🚡 PSS-CSPCServer-2.1T1-Player-VMDK.zip	er v4.0 platform (CSPC 2.1T1)- inclu	15-MAR-2013	5292.00 MB	Download Add to cart		

• Find the PSS-CSPCServer-2.1T1-ESXi-OVF10.ova file and click the corresponding Download button.

For more information on the download processes go to Accessing Release PSS 1.0.

Install VMware vSphere Hypervisor ESXi 4.x

To install the VMware vSphere Hypervisor ESXi 4.x, perform the following steps:

😹 🕨 Computer 🕨 System (C:) 🕨 Users 🕨 skeeler 🕨 Downloads 🕨						
🚳 Open with VMware Player 🔹 Share with 👻	Burn N	ew folder				
Name	Date mod	lified	Туре			
🐻 VMware-player-5.0.1-894247.exe	11/17/201	2 5:45 AM	Application			
VMware-Player-5.0.1-894247.x86_64.bundle	11/17/2012 5:39 AM		BUNDLE File			
🐼 PSS-CSPCServer-2.1T1-ESXi-OVF10.ova	11/17/201	.2 1:40 AM	OVA File			
## PSS-CSPCClient-2.1T1-Win32.exe	11/16/201	.2 11:53	Application			

- Note the folder where you downloaded the **PSS-CSPCServer-2.1T1-ESXi-OVF10.ova** file, that location will be needed when deploying the OVF Template, during the image install process.
- Go to the Install the CSP-C ESXi image for directions on how to install the ESXi image.

Additional Resources

This section contains a list of additional resources:

- Make sure your hardware is compliant by referring to the <u>Hardware Compatibility Guide</u>.
- Installing ESXi/ESX 4.1 and vCenter Server 4.1 best practices (1022101).
- For disk space see <u>Recommended disk or LUN sizes for VMware ESX/ESXi installations (1026500)</u>.

ESXi 5.0

This section provides information on the following areas:

- <u>System Requirements</u>
- Download the VMware vSphere Hypervisor ESXi 5.x Smart Collector Image
- Install the VMware vSphere Hypervisor ESXi 5.x
- Additional Resources

System Requirements

To ensure the proper installation and operation of VMware based smart collector environment on your machine, verify that all of the following requirements are met before proceeding.

64-bit Processor

These are the requirements for a 64-bit Processor:

- ESXi 5.0 installs and run only on servers with 64-bit x86 CPUs.
- ESXi 5.0 requires a host machine with at least two cores.
- ESXi 5.0 supports only LAHF and SAHF CPU instructions.
- Known 64-bit processors:
 - All AMD Opteron processors
 - All Intel Xeon 3000/3200, 3100/3300, 5100/5300, 5200/5400, 5500/5600, 7100/7300, 7200/7400, and 7500 processors

RAM

The RAM requirements are 2 GB RAM minimum.

Network Adapters

There can be one or more Gigabit or 10 GB Ethernet controllers. For a list of supported network adapter models, see the <u>VMware Compatibility Guide</u>.

SCSI Adapter, Fibre Channel Adapter or Internal RAID Controller

The supported network adapters include any combination of one or more of the following controllers:

- Basic SCSI controllers. Adaptec Ultra-160 or Ultra-320, LSI Logic Fusion-MPT, or most NCR/Symbios SCSI.
- RAID controllers. Dell PERC (Adaptec RAID or LSI MegaRAID), HP Smart Array RAID, or IBM (Adaptec) ServeRAID controllers.

Installation and Storage

The Installation and Storage requirements are:

- SCSI disk or a local, non-network, RAID LUN with unpartitioned space for the virtual machines.
- For Serial ATA (SATA), a disk connected through supported SAS controllers or supported on-board SATA controllers. SATA disks will be considered remote, not local. These disks will not be used as a scratch partition by default because they are seen as remote.

ESXi 5.0 supports installing on and booting from the following storage systems:

- SATA disk drives. SATA disk drives connected behind supported SAS controllers or supported onboard
- SATA controllers. Supported SAS controllers include:
 - LSI1068E (LSISAS3442E)
 - o LSI1068 (SAS 5)
 - o IBM ServeRAID 8K SAS controller
 - Smart Array P400/256 controller
 - Dell PERC 5.0.1 controller
- Supported on-board SATA include:
 - o Intel ICH9
 - o NVIDIA MCP55
 - ServerWorks HT1000
- Serial Attached SCSI (SAS) disk drives. Supported for installing ESXi 5.0 and for storing virtual machines on VMFS partitions.
- Dedicated SAN disk on Fibre Channel or iSCSI
- USB devices. Supported for installing ESXi 5.0. For a list of supported USB devices, see the <u>VMware</u> <u>Compatibility Guide</u>.

Download the VMware vSphere Hypervisor ESXi 5.x Smart Collector Image

To Install the VMware vSphere Hypervisor ESXi 5.x smart collector onto a Windows Host Machine, go to the following URL:

http://www.cisco.com/cisco/software/release.html?mdfid=283114009&catid=268439477&softwareid=283308676&release=C ollector%20Server&rellifecycle=&relind=AVAILABLE&reltype=all; the Release Collector Server images appear.

Download Software

반 Download Cart (0 items) [-] Feedback Help

Downloads Home > Products > Cloud and Systems Management > Cisco Services > Cisco Smart Collector > Smart Collector Server > Smart Collector Software-Collector Server

Smart collector

Search Expand All Collapse All • Latest Releases Collector Server • All Releases • PSS 1.0 Collector Server	Release Collector Server						
	File Information	4.x & 5.0) platform	Release Date 🔻	Size			
	Server Image (OVF10) for VmWare ESXi(es latest rules package 🚰 PSS-CSPCServer-2.2-ESXi-OVF10.ova	4.x & 5.0) platform (CSPC 2.2)- includ	17-MAY-2013	7340.83 MB	Download Add to cart		
Other Files	Server Image (ISO) for Intel based (incl. es latest rules package 🚡 PSS-CSPCServer-2.2-Intel.iso	UCSM2) machines (CSPC 2.2)- includ	17-MAY-2013	2489.26 MB	Download Add to cart		
	Server Image (ISO) for Cisco UCS C2xx M 2.2)- includes latest rules package 👔 PSS-CSPCServer-2.2-UCSM3.iso	13 machines with SATA drives (CSPC	17-MAY-2013	2933.60 MB	Download Add to cart		
	Server Image (OVF10) for VmWare ESXi(4 udes rules package 3.11 👔 PSS-CSPCServer-2.1T1-ESXi-OVF10.ova	4.x & 5.0) platform (CSPC 2.1T1)- incl	15-MAR-2013	5325.20 MB	Download Add to cart		
	Server Image (ISO) for Intel based (incl. udes rules package 3.11 🚡 PSS-CSPCServer-2.1T1-Intel.iso	UCSM2) machines (CSPC 2.1T1)- incl	15-MAR-2013	1592.78 MB	Download Add to cart		
	Server Image (VMDK) for VMWare VmPla des rules package 3.11 PSS-CSPCServer-2.1T1-Player-VMDK.zip	ayer v4.0 platform (CSPC 2.1T1)- inclu	15-MAR-2013	5292.00 MB	Download Add to cart		

• Find the PSS-CSPCServer-2.1T1-ESXi-OVF10.ova file and click the corresponding Download button.

Note For more information on the download processes go to <u>Accessing Release PSS 1.0</u>.

Install the VMware vSphere Hypervisor ESXi 5.x

To install the VMware vSphere Hypervisor ESXi 5.x, perform the following steps:

Computer > System (C:) > Users > skeeler > Dov	wnloads 🕨	-	
😼 Open with VMware Player 🔹 Share with 💌	Burn	New folder	
Vame	Date	modified	Туре
Ď VMware-player-5.0.1-894247.exe	11/17	7/2012 5:45 AM	Application
VMware-Player-5.0.1-894247.x86_64.bundle	11/17	7/2012 5:39 AM	BUNDLE Fil
🐞 PSS-CSPCServer-2.1T1-ESXi-OVF10.ova	11/17	7/2012 1:40 AM	OVA File
🗱 PSS-CSPCClient-2.1T1-Win32.exe	11/16	5/2012 11:53	Application

- Note the folder where you downloaded the **PSS-CSPCServer-2.1T1-ESXi-OVF10.ova** file, that location will be needed when deploying the OVF Template, during the image install process.
- Go to the Install the CSP-C ESXi image for directions on how to install the ESXi image.

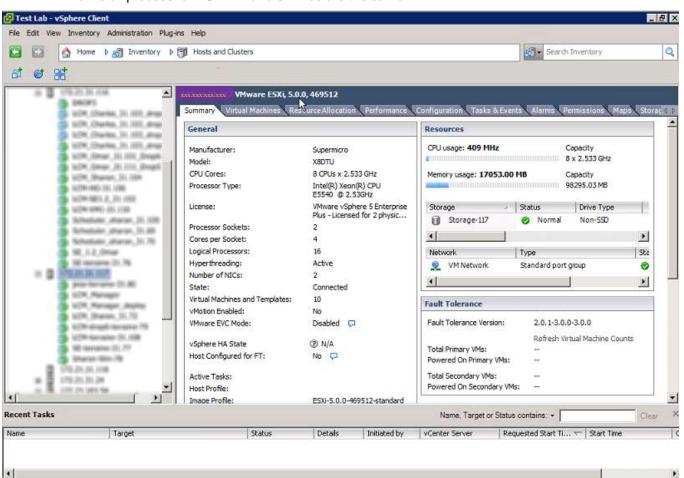
Additional Resources

This section contains a list of additional resources:

- Make sure your hardware is compliant by referring to the <u>Hardware Compatibility Guide</u>.
- vSphere Installation and Setup 5.0.
- For disk space requirements, see <u>Recommended disk or LUN sizes for VMware ESX/ESXi installations</u> (1026500).

Install the CSP-C ESXi image

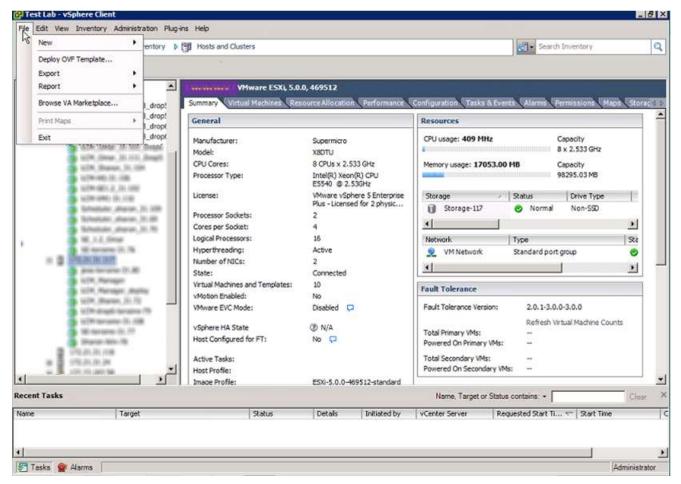
To install the downloaded VMware vSphere Hypervisor ESXi x.x Smart Collector Image, perform the following steps:



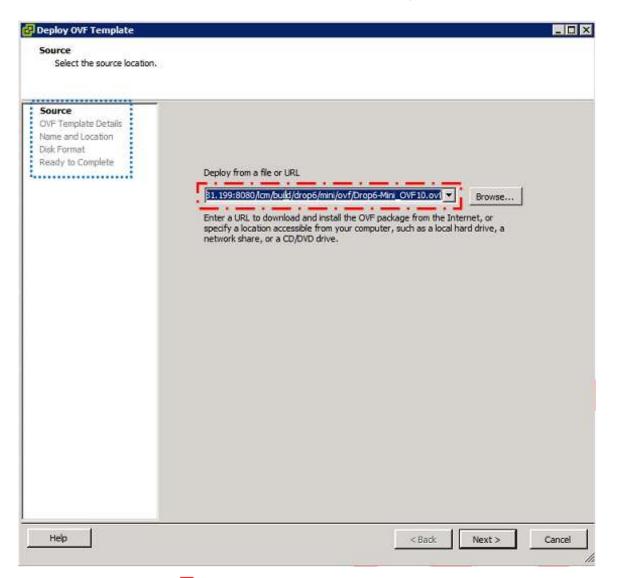
The install process for ESXi 4.x and 5.x files are the same.

Open the vSphere client and select which device to use.

The ______ is being used to blank out the network IP addresses.



 On the menu choose File > Deploy OVF Template...; the Deploy OVF Template window appears with the source information.



- The drop-down list shows the location where the image is.
- Note The navigation menu on the left indicates where you are in the Deploy OVT Template process, for example, this part is the **Source** process, which appears in bold.

Deploy OVF Template Source Select the source location.		
Source OVF Template Details Name and Location Disk Format Ready to Complete	Deploy from a file or URL Image: State of the state of th	
Help	< Badk Next >	Cancel

- If this is not the correct location, then perform one of the following tasks:
 - \circ Click the drop-down list button and select one of the other locations.
 - Click the adjacent **Browse** button and specify the correct location.
- After specifying the correct file location, then click **Next**; the OVT Template Details section appears.

Source OVF Template Details Name and Location Product: Claco Collector Appliance Disk Format Version: 1.2.0.0 Ready to Complete Vendor: Claco Systems, Inc. Publisher: No certificate present Download size: Download size: 2.4.68 Size on disk: 3.6.68 (thin provisioned) 25.0 GB (thick provisioned) Description: Description: Description: Description:	Deploy OVF Template OVF Template Details Verify OVF template details	i.			
	OVF Template Details Name and Location Disk Format Properties	Version: Vendor: Publisher: Download size: Size on disk:	1.2.0.0 Cisco Systems, Inc. No certificate present 2.4 G8 3.6 G8 (thin provisioned)		

• The OVT Template Details section provides information about the previously selected image. Click **Next**; the Name and Location section appears.

Source	Name:
WF Template Details	SE1.2 Disco Collector Appliance
isk Format roperties	The name can contain up to 80 characters and it must be unique within the inventory folder.
leady to Complete	Inventory Location:
	Discovered virtual machine

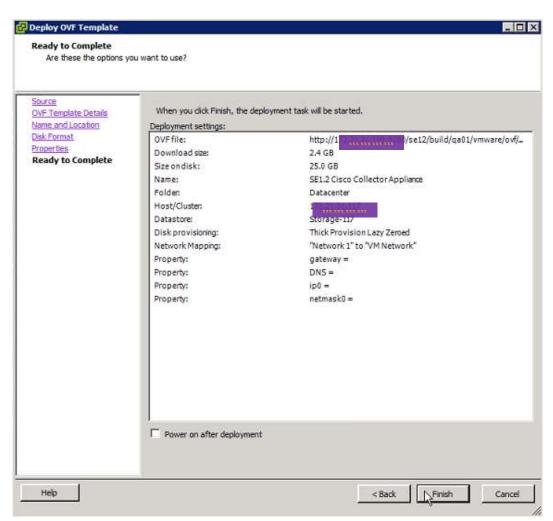
- In the name field, specify the name you want associated to this image.
- Click **Next**; the Disk Format section appears.

Deploy OVF Template			
Disk Format In which format do you	want to store the virtual disks?		
Source OVF Template Details Name and Location Disk Format Properties Ready to Complete	Datastore: Available space (GB): (C Thick Provision Lazy Z C Thick Provision Eager C Thin Provision		
Help		 < Back Next >	Cancel

- This section provides information about the Disk Format and lets you change the type provisioning for the selected disk.
- Click **Next**; the Properties section appears.

ource WE Template Details lame and Location isk Format Properties eady to Complete	Networking Properties Default Gateway The default gateway address for this VM. Leave blank if DHCP is desired. DNS The domain name servers for this VM (comma separated). Leave blank if DHCP is desired. Network 1 IP Address The IP address for this interface. Leave blank if DHCP is desired. Network 1 Netmask The netmask or prefix for this interface. Leave blank if DHCP is desired.
---	---

- The Networking Properties section has fields for specifying different networking properties; however, no information specified here will be configured.
- Please leave the entries blank for Network Properties. The appliance network configuration will be done via the Admin shell once the appliance is booted. Any information specified here will NOT be used.
- Click Next; the Ready to Complete section appears.



- This section provides a summary of all the previously accepted information.
- Review the list and go back to the respective section if something needs to be changed, otherwise, click **Finish**; a status window appears indicating the progress of the deployment.

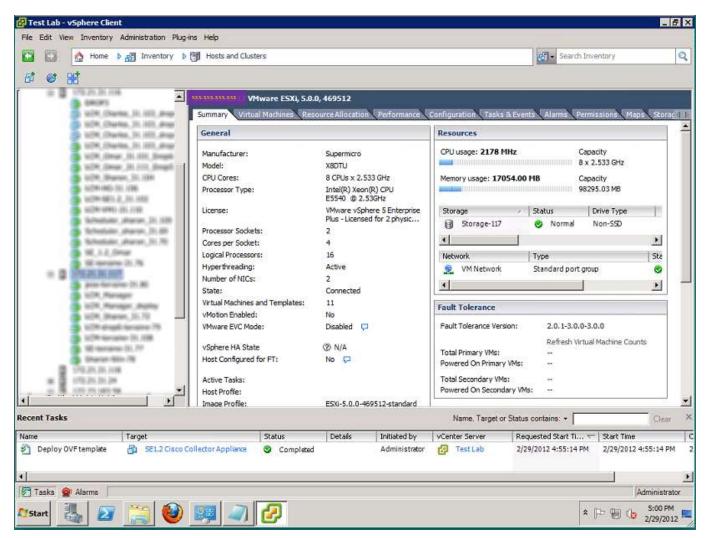


The deployment could take several minutes, depending on the size of the file.



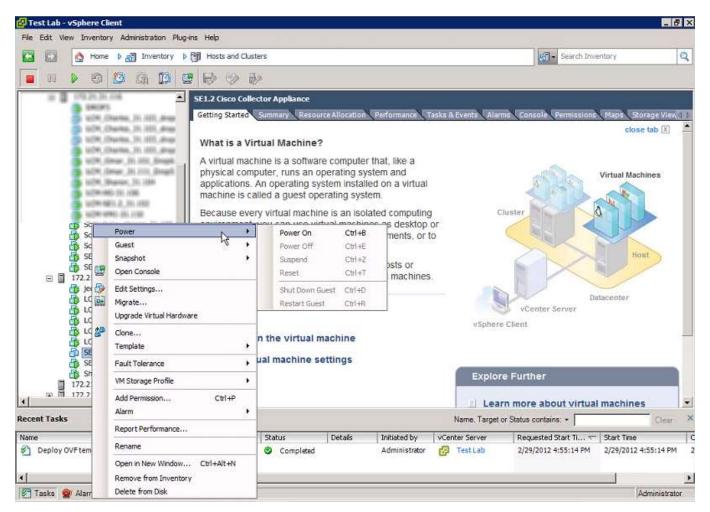
- After the deployment is finished, a Deployment Completed Successfully information window appears.
- Click the Close button.

Note

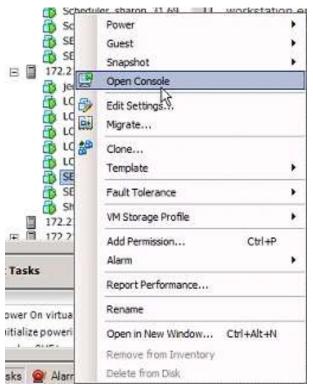


Several new items can be seen as a result of the deployment:

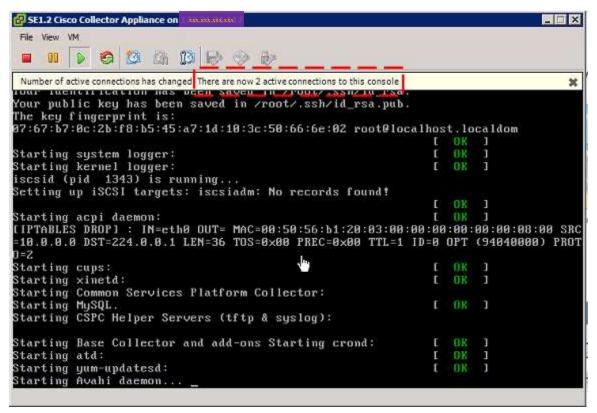
- The Recent tasks section displays the Deploy OVT Template task and associated information.
- The name appears in the list under the corresponding device
- The color of the icon indicates if the device is powered on:
 - \circ If the icon is blue, then the device is powered off.
 - \circ If the icon is green, $\overset{\bullet}{=}$ then the device is powered on.



 To power on the device, right-click the appliance name, in the pop-up menu choose Power > Power On or press keys Ctrl+B.



After powering on the device, click Open Console; the console window appears.

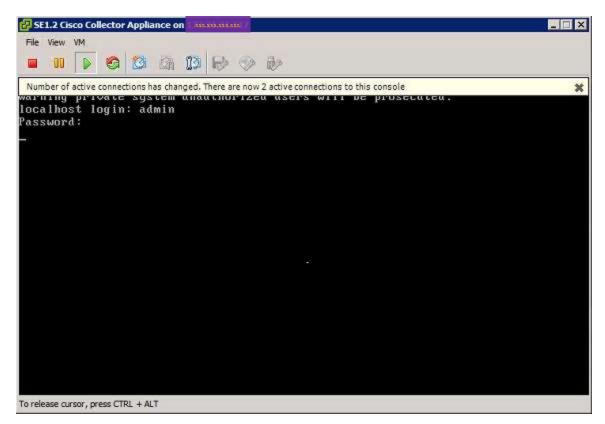


Note

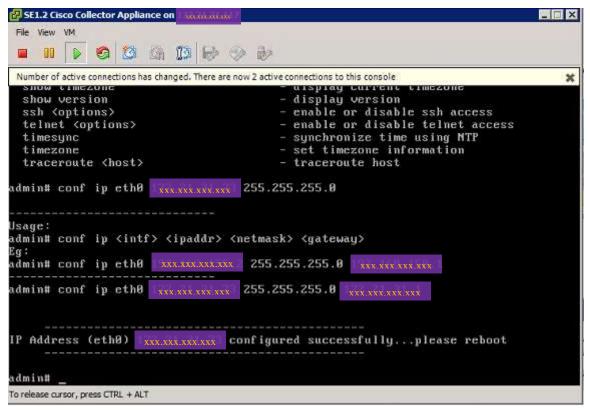
Some versions of vSphere client have a problem under the console. The console shows only the bottom portion of the display. For example if on a vSphere client you enter a "?" to see list of all the CLI commands, the list of commands scrolls by and you see only bottom portion of command list, you have no scroll bar to scroll up to see top part of command list.

To currently get around this problem use an SSH client and connect to the CSP-C server and enlarge the window or use the scroll bar on the right to scroll upward.

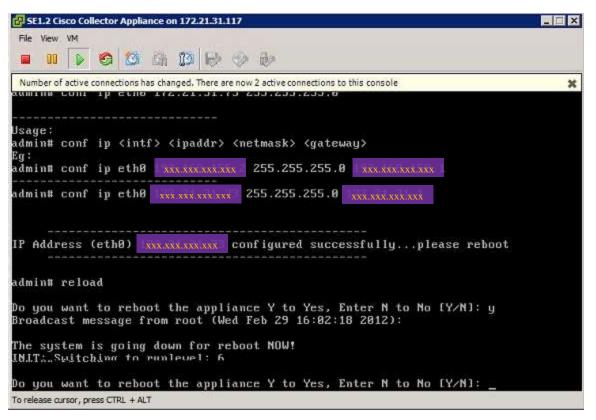
• The initialization process is displayed in the console window; also the numbers of active connections to the console are identified.



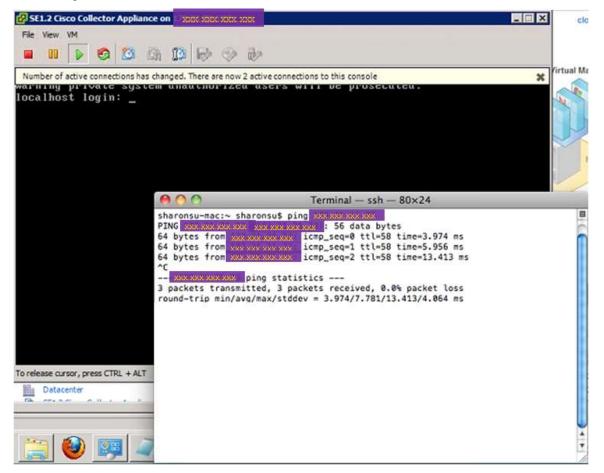
After the initialization completes, login with your credentials.



• Configure the IP address using the conf ip command.



• After the configuration is complete, then reboot the device using the **reload** command. After the reload, log back in and the interface and associated IP address will be active.

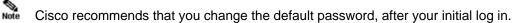


• Ping the new added IP address, from another device, to verify that the new interface and IP address are active.

Configure VMware Smart Collector IP Address

To configure the IP address of the VMware smart collector, perform the following steps:

• Login to the VMware smart collector via connected console using cisco/cisco account/password.



 When you login to the VMware smart collector using cisco/cisco, you will see the following screen that lists the supported CLI commands.

7	- print the list of available commands
about	- about appliance
apply *	 install updates for Appliance components
check update *	 check availability of updates for Appliance components
clear history *	- purge command history for user/s
clrscr*	- clear current screen/s
collector <start restar<="" status="" stop="" td=""><td> collector start/stop/status/restart </td></start>	 collector start/stop/status/restart
conf autoupdate *	 configure auto-update policy
conf date *	- configure date and/or time
conf dhcp <intf></intf>	- configure dhcp
conf dns [-ad] *	- configure DNS server(s)
conf ip *	- configure static IP
conf proxy *	- configure proxy server
conf server-connection *	- configure connection with server used for updates
	 enable or disable connectivity direct-mode Y
delete autoupdate *	- delete configured auto-update policy
dmidecode *	- view SMBIOS table
download *	- download updates for Appliance components
exit	- exits from this session
firewall <enable disable=""></enable>	- enable/disable firewall rules
history-size <number> *</number>	- sets the maxsize for history file
hostname <hostname></hostname>	- change hostname
logout	- logout from this session
passwd	- change user passwd
ping *	- view ping details
poweroff	- shutdown and power off the system
proxy <enable clear="" disable=""></enable>	- enable/disable or clear proxy
pwdreset <user> <expiry_interval></expiry_interval></user>	- reset cisco/admin user passwd to random string for a specified no of days
reboot	- reboot the system
reload	- rebot the system
route [-ad] <intf> <network mask=""> <</network></intf>	
· · · · · · · · · · · · · · · · · · ·	- display status of apply operation
show apply * show autoupdate *	 display status of apply operation display details of configured auto-update policy
show connectivity direct-mode	 display details of connectivity direct-mode
show date	
	 display date and time information display status of download operation
show download *	
show firewall	- display the firewall rules
show history *	 display command history for user/s and size of the history file
show hostname	- display hostname
show ipconfig	- display network configuration
show logs *	- display logs
show monitor	 display appliance status(cpu, memory, disk)
show route	 display configured routes
show server-connection	- display details of connection with server used for updates
show timesync	 display current NTP sync interval and last update time
show timezone	- display current timezone
show version *	 display version for servicepack/Jeos
ssh <enable disable=""></enable>	- enable or disable ssh access
sudo <command/>	- run linux command with sudo
telnet <enable disable=""></enable>	- enable or disable telnet access
timesync *	- synchronize system time with NTP server and configure NTP synchronization interval
timezone	 set timezone information
traceroute <host></host>	- traceroute host

1010#

Some vSphere consoles have a problem letting you see previously displayed console information. For more details on how to work around this issue see <u>vSphere client console problem</u>.

- To assign the IP address for the VMware smart collector, at the command prompt (cisco>) enter: passwd to change the password.
- Enter the enable password, which is **admin**; the Administration screen appears.



At the command prompt admin#, enter conf ip and assign an appropriate IP address for this device.



• Once the configuration is successful, reboot the device in order to use the newly configured IP address.

N

- **Note** As noted in the above example, it is recommended that you use the eth0 interface on your hardware to configure the static IPAddress. If you change the IP address settings for the VMware smart collector, reboot the device using the reload command. When the operating system on the VMware smart collector restarts with its new IP profile, continue with the rest of the configuration.
- Users can also configure the IPAddress using the DHCP command (which is enabled by default). At the command prompt admin# enter conf dhcp eth0
 (e.g. admin# conf dhcp eth0)

N

Note As noted in the above example, it is recommended that you use the eth0 interface for DHCP IP address configuration. Also, the user should make sure that the DHCP server is running in your network so that it can provide a DHCP IP address to the target hardware.



Fig 7.4 DHCP Address configuration

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Note If you change the IP address settings for the VMware smart collector, reboot the system using the reload command. When the operating system on the VMware smart collector restarts with its new IP profile, continue with the rest of the configuration.

Important From this point you can continue with the next step in the CSP-C Registration directions by going to the next section, <u>CSP-C Registration</u>.

CSP-C Registration

A CSP-C registration needs to be performed before the collector can be utilized by the Cisco smart portal. The registration allows a validation to occur that creates a connection between the CSP-C collector and the Cisco Backend. The registration process also requires you to obtain the <u>entitlement files</u> (a security certificate and other registration files). The entitlement files are used later to complete the CSP-C installation.

There are two parts to the CSP-C registration on the Cisco smart portal:

- Register the CSP-C
- Download the Certificate

To register a CSP-C, and obtain the entitlement files, perform the following steps:

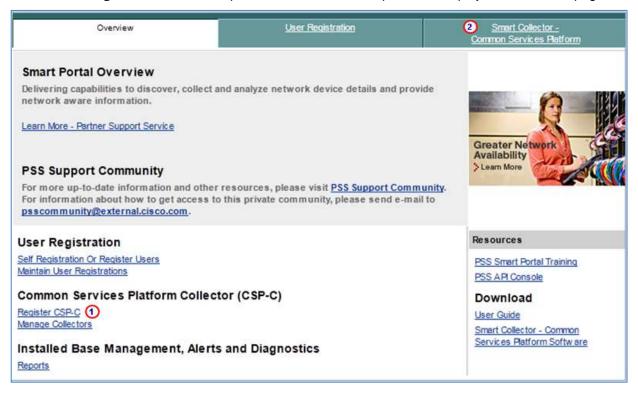
Register the CSP-C

 Go to the Cisco smart portal application at URL: https://tools.cisco.com/csp/; the Cisco smart portal Log In window opens.

Log In

Existing User	New User
User Hame: Password: Log In	There are various levels of access depending on your relationship with Cisco. Review the user benefits and find the level that is most appropriate for you. Registered Guest Partner & Reseller Registered Customer
Forgot your password?	Register Now

- Enter your Cisco.com ID user name and password.
- Click Log In; the Cisco smart portal Overview window opens and displays the Overview page.



- On the Smart Portal Overview page, click one of the following items:
 - <u>Register CSP-C</u>
 - Smart Collector- Common Services Platform tab ⁽²⁾
- Clicking either of the above options displays the Smart Collector- Common Services Platform page; by default this page displays all the registered CSP-C's, if any have been registered.

	<u>Overview</u>		User Registration		Smart Collector - Common Services Platform			Smart Collector - Embedded		
Ne	w Request Register	a new CSP-C								
	mon Services Platfo	collector (C)			_					_
Lon	mon services made	orm Collector (C:	SP-C) Regist	rations						
com	CSP-C NAME	APPLIANCE ID	ENTITLED COMPANY	REGISTRATION STATUS	SITE ID	INVENTORY NAME	CREATED ON	CREATED BY	UPDATED BY	LAST UPDATE

On the Smart Collector - Common Services Platform page, click New Request; (1) the CSP-C Registration view appears.

Overview	User Registration	Smart Collector-	Smart Collector -
		Common Services Platform	Embedded
 A state of the second state of th	5.4525 - 01025 - 6.2		

CSP-C Registration: Enter Information

This page allows you to register a new Common Services Platform Collector (CSP-C).

CSP-C Name:*	CSP-C doctest			
Entitled Company:	CISCO SYSTEMS	~		
Site ID:	RTP-Bldg 10		Enter SiteId Or Select from below list	
	Available list of Site ID	Ds		
	Please Select	~	1	
Serial Number:	DOC093914H7		2	
Inventory Name:	cisco devices			
	Name of the second s			
Inventory Name:'	cisco devices			

Enter all the required information, which is designated by a red asterisk^{*}.

N

Note Enter information that is relevant to the device/site, which will make finding/working with the device easier in the future. For the Site ID you can either manually enter the id or select one from the drop-down list.

For actual physical collectors, the serial number information ⁽²⁾ can be obtained from the invoice or from the paperwork that came with the device; however, the best source for the serial number is from the actual device.

The serial number for the collector can use only the following characters: 1... 0, a... Z. Specifically, no special characters are to be used.

For virtual collectors (those using VMware) a good serial number ² could use the date and time, for example, *PartnernameYYMMDDHHMMSS*.

- Note The serial number is used to help the partner identify a particular collector. Quite often part of the serial number is related to a location or customer. Basically the serial number can be anything you want it to be to assist you with collector identification and management.
- Click Submit; a message appears indicating that the submission was successful and instructs you to download a certificate. An email, which includes the details related to CSP-C and a link to download the registration zip file, is sent to the end user.

	<u>Overview</u>	verview User Registration				nart Collector - on Services Pla		<u>Smart Collector -</u> <u>Embedded</u>			
13/AUG/2010: REG-INFO-83001: Your CSP-C registration has been submitted successfully. To complete the CSP-C installation you will need a Security Certificate & Registration information files, which you can download from Download Certificate											
Ne	w Request Register a	a new CSP-C									
Com	mon Services Platfo	orm Collector (CS	SP-C) Regis	trations							
	CSP-C NAME	APPLIANCE ID	ENTITLED COMPANY	REGISTRATION STATUS	SITE ID	INVENTORY NAME	CREATED ON	CREATED BY	UPDATED BY	LAST UPDATE	
0	CSP-C doctest	CSP0000000461	CISCO SYSTEMS	Completed	RTP-Bldg 10	cisco devices	13/Aug/2010	Sch Test			
0	JUNKED_schellaTest	CSP0000000142	CISCO SYSTEMS	Completed	N/A	schellaTest	22/Jun/2010	Sch Test			
D	owload Certificate	Update Del	ete								

Download the Certificate

Downloading a certificate provides you entitlement files, a security certificate and other registration related files that are used when installing the CSP-C entitlement file. To download a certificate, perform the following steps:



There are several ways to download the certificate:

- Certificate can be downloaded directly by clicking Download Certificate¹ in the confirmation message box.
- o It can be downloaded using the CSP-C registration link specified in the confirmation email.

• Click the Download Certificate button, 2 a zip file window appears requesting you to either save or open the entitlement file, which contains the certificate (license file) and other registration files.

Opening CSP000000461.zip	×
You have chosen to open	
🚚 CSP000000461.zip	
which is a: WinZip File	
from: https://tools-stage.cisco.com	
What should Firefox do with this file?	ך
Open with WinZip (default)	
O Save File	
Do this automatically for files like this from now on.	
OK Cancel	

• Click the Save File radio button.

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Note Do not open the zip file, instead save it; opening the zip file could cause problems when the files are used later in the process. Store the zip file in a safe place that will be easy to find later, when configuring the CSP-C.

This section describes the process of accessing the appliance and how to upload the previously obtained certificate.

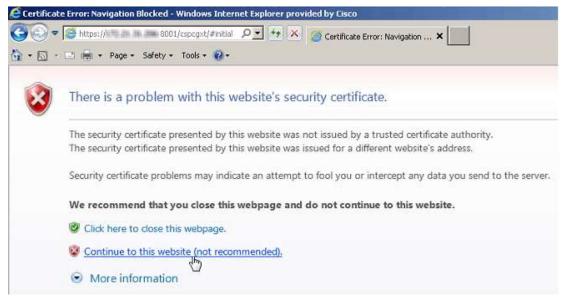
Access the Appliance

The appliance has a built-in web browser, also known as a 'thin-client'. The thin-client interface is what you use to access the appliance GUI. To access the appliance, perform the following steps:

• Use the following URL format to access our appliance:

https://your_appliance_ip_address:8001/cspcgxt/

- Go to your appliance and enter your login credentials. The default user id/password is noted in the <u>Default Login User Ids and Priorities</u> section.
- After entering your login credentials you will see some type of security certificate warning on your browser. The warning will be different depending upon the type browser you have. Some examples are noted below.



Will see the above security warning on Internet Explorer

=	This Connection is Untrusted
Ľ	You have asked Firefox to connect securely to 172.21.31.206:8001, but we can't confirm that you connection is secure.
	Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.
	What Should I Do?
	If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.
	Getme outofhere!
	Technical Details
	I Understand the Risks

- Will see the above security warning on Firefox.
- Click I Understand the Risks, which expands additional info for you to read and select.

CTA.	
4	You have asked Firefox to connect securely to 172.21.31.206:8001 , but we can't confirm that your connection is secure.
	Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be venified.
	What Should I Do?
	If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.
	Get me out of here!
	Technical Details
	I Understand the Risks
	If you understand what's going on, you can tell Firefox to start trusting this site's identification. Even if you trust the site, this error could mean that someone is tampering with your connection.
	Don't add an exception unless you know there's a good reason why this site doesn't use trusted identification.
	Add Exception_

• Click Add Exception to continue access to the collector appliance.

ocation: https:// 8001/cspcg	st/	Get Certificate
ertificate Status		
his site attempts to identify itself with invalid i	nformation.	<u>V</u> iew
Vrong Site		
ertificate belongs to a different site, which co	uld Indicata an idantitu th	aft
inknown Identity	oro a randoo dii koenicky li	ICI LA
ertificate is not trusted, because it hasn't bee ecure signature.	n verified by a recognize	d authority using a

• Click **Confirm Security Exception**, which allows you to continue the login process.

cisco	Cisco CSP Collector 2.2
Username:	Admin123
Password:	
	Forgot Password?

• Enter your login credentials

	CSPC Login				-	
	ahaha	Cieno CG	D Collar	ton 0 0		
onfirm						
9 You have not specif	ed Password Reset Questions ar	d Answers. With	out providing t	nese, you will not	be able to reco	ver your password should
You have not specify the need arise in fut	ed Password Reset Questions ar ure. Do you want to provide the	d Answers. With ese questions and Yes	out providing t answers now? No	nese, you will not	be able to reco	ver your password should
You have not specify the need arise in fut	ed Password Reset Questions ar ure. Do you want to provide the	ese questions and	l answers now? No	hese, you will not orgot Password?	be able to reco	ver your password should

• You will prompted for Password Reset Questions ilf you have not provided them yet. Click **Yes** to provide them now or Click **No** to provide this information at some later time.

Please wait	
Loading items	
Finished creating	applications tab

- After you have provided your Password Reset Questions, or clicked No, then the appliance loads its software items for operation.
- After all the software is loaded, the browser thin-client GUI appears.

Upload New License

To upload the new license file, perform the following steps:

• On the menu choose Administration > Server Properties; the Server Properties window appears.

Server Properties	License Properties		
Entitlement Prope	rties		
Serial Number		3235346346346346	
AppUserType		CSPC	
Expiration Date		2099-01-01	
Service Name		OISCO-SERVICE	
License		NONE	
Enabled Feature List		OscoEnabledService	
Customer Id		wersdfsdf	
inventory Name		sdfgsdfg	
Appliance id		CSP0009003666	
		Upload New Licens	2

• Click the License Properties tab, then click Upload New License; the Documents – Folder Library window appears.

 ידנ	Documents - Fo \$ # CSP-C	Arrange by: Folder •
	Date modified 👻	Name
	퉲 4/3/2013 4:23 PM	CSPC% SNTC
	퉬 3/18/2013 7:03 PM	CSPC% PSS
	🖂 5/18/2013 11:51 AM	RE PSS 1.5 MR2 User Guide and Release Notes are published.
	👜 5/17/2013 7:12 PM	LCM Agent Manager.docx
s	🧔 5/17/2013 3:20 PM	CSP0009003666.zip
	🐴 5/16/2013 11:39 PM	Appliance_CLI_listsummary.xlsx
ior	🚇 5/7/2013 8:55 AM	VMWare_Final.ppt×
dei	👜 4/29/2013 3:33 PM	Troubleshooting Guide PSS CSP-C Connectivity 042413.docx
ne	🐏 4/24/2013 12:47 PM	Troubleshooting Guide PSS CSP-C Connectivity 081412.docx
s	🔁 4/24/2013 12:45 PM	Troubleshooting Guide PSS CSP-C Connectivity 081412.pdf
86]		
-	•	
File n	ame: CSP0009003666.zip	▼ All Files (*.*)
	[
		Open Cancel

• Select the license file, then click **Open.**

Server Properties	License Properties		
Entitlement Pro	perties		
Serial Number		3235346346346346	
AppliserType		CSPC	
Expiration Date		2099-01-01	
Service Name		CISCO-SERVICE	
License		NONE	
Enabled Featur			
Customer Id	ploading: CSP0009003		
inventory Name	Up/r	sading	
Appliance Id			
			Upload New License.

• The license file gets uploaded to the appliance.

Uploadir	ng New License
Ų	Successfully uploaded the entitlement(license) file. The CSPC Server will be restarted for the new entitlement(license) to be effective.
	<u> </u>

- After the license file gets uploaded to the appliance, a message appears indicating that the license file was successfully uploaded.
- Clicl **OK**, which restarts the CSPC server appliance.

Message	
	The system is unable to recieve
	messages from the server anymore.
Please lo	gin again.
	OK.
	l <u>id</u>

- The CSPC server gets restarted and a message appears indicating the CSPC server appliance is unable to receive any messages and that a login is required.
- Click **OK** to start the login process.

CSP-C Configuration and Device Credentials

There is a special process related to configuring the CSP-C server, that process is specifying device credentials. In order to discover network devices and collect device data you must first enter the device credentials. The setup of device credentials in the CSP-C are used for two purposes:

- SNMP credentials are used only for the initial discovery of the devices.
- In addition to SNMP, the remaining credentials (that is, telnet, SSH, HTTP, HTTPS) are used for data collection from the discovered devices.

To set the device credentials perform the following steps:

 On the browser menu choose Settings > Device Credentials...; the Device Credential Configuration window appears.

etween server and i	network devices		inventory and other communication	S
Credential Name	Transport	User Name	Ip Address List	
172.21.85.17_34	telnet	cisco	172.21.55.17	-
172.21.55.17,38	sshv1	cisco	10221.86.17	
172.21.55.17_86	sshv2	cisco	172.21.55.17	
172.21.55.17_as	snmpv2c		172.21.65.17	
172.21.55.17_wt	snmpv1		172-21.55.17	
172.20 106.63.1	telnet	cisco	172.20106-63	
172.20 K06.40_K	sshv1	cisco	172.201006-03	e
172.20.106.63_8	sshv2	cisco	172.20108-83	
172.20.106.63_1	teinet	cisco	172.20.106.63	
172.20 HDE-83_8	sshv1	cisco	172.201106.63	
172.20106-43_6	sshv2	cisco	172.20 X06.40	
172.20 106.63_8	snmpv2c		172.20106.63	
171.16.056.45.4	ennov1		1275 316 1086 425	<u> </u>
Add	of 26 🕨 🔰 Delete 🔵 De	elete All	Displaying 1 - 50	of 1283 port

Click Add to create a credential, the device credentials window appears, which contains credential identification, authentication information, and SNMP Read community and Write community string details (see next graphic).

redential Identificat	ion		Include Ip Address Ranges/List (For Collection)	Discovery and Data
'Name 🚺	SNMP_Test		' Ip Address List * * * *	
ransport				í.
Protocol Port	srmpv2c	*		ł
uthentication		2		
Jser Name			Exclude Ip Address Ranges/List (Fo	r Data Collection only)
Password Enable User Name		-1-	Exclude Ip List	2
Enable Password		L		
Pass Phrase				
o				
Gerundade				
	ity Strings			
NMP ¥1/¥2 Commur	-	2		
NMP V1/V2 Commun Read Community		- 2		
NMP V1/V2 Commun Read Community Write Community	····· (A) ····· (B)	10		
NMP V1/V2 Commur Read Community Write Community NMP V3 Authenticat	····· (A) ····· (B)	10		
NMP V1/V2 Commun Read Community Write Community NMP V3 Authenticat	····· (A) ····· (B)	10		
NMP V1/V2 Commun Read Community Write Community NMP V3 Authenticat User Name Engine Id Auth Algorithm	····· (A) ····· (B)	10		
Certificate INMP V1/V2 Community Write Community Write Community INMP V3 Authenticat V User Name Engine Id Auth Algorithm Auth Password Privacy Algorithm	····· (A) ····· (B)	3		

- Fill out the required data:
 - Enter a credential name (that is, UAT-Test).
 - For SNMP V1/V2 Community Strings section, enter the respective Read community string by clicking the ... icon; the Enter Read Community String window appears.

Enter Read Community	String	×
Community String: Confirm Community String:	•••••	
Display Character	s	
	OK Cancel	

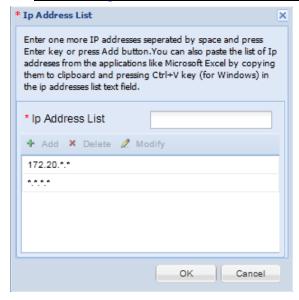
- In the Enter Read Community String window enter the read community string (for devices the default is public) then click **OK**; the community string is added to the Read Community field.
- Enter the Write community string by clicking the ... icon; (1) the Enter Write Community String window appears.

Enter Write Community String				
Community String:	private			
Confirm Community String:	private			
Display Character	s			
	OK Cancel			

- In the Enter Write Community String window enter the write community string (for devices the default is private) then click **OK**; the community string is added to the Write Community field.
- Enter an IP Address list by clicking the pencil icon 🕑 to the right of the IpAddress list field in the device credentials window, then enter the IP Address list.

* Ip Address List	×		
Enter one more IP addresses seperated by space and press Enter key or press Add button.You can also paste the list of Ip addreses from the applications like Microsoft Excel by copying them to clipboard and pressing Ctrl+V key (for Windows) in the ip addresses list text field.			
* Ip Address List	****		
🕈 Add 🗙 Delete 🖉	Modify		
<u>[</u>			
	OK Cancel		

o After entering the IP Address list details click **Add**; the entered data is added to the IpAddress List.



- **N**
- **Note** Entering *.*.*.* looks for all the network devices, entering 172.20.*.* look for those devices in the 172.20 subnet.

• After entering the above data click **OK**; ^(S) the new credential appears in the Device Credentials list. ^(C)

TE: Press OK to s	ave credentials to	CSPC server unless of	changes need to be cancelled.	
Credential Name	Transport	User Name	Ip Address List	
92.168.99.14	sshv2	cisco	192.168.99.145	-
92.168.99.14	snmpv2c		192.168.99.145	
92.168.99.14	snmpv1		192.168.99.145	
72.25.121.23	teinet	cisco	172.25.121.234	
72 25 121 23	sshv1	cisco	172.25.121.234	15
72.25.121.23	sshv2	cisco	172.25.121.234	
72.25,121.23	teinet	cisco	172.25.121.234	115
72.25.121.23	sshv1	cisco	172.25.121.234	
72.25.121.23	sshv2	cisco.	172.25.121.234	
72.25.121.23	shmpv2c		172.25.121.234	
72.25.121.23	snmpv1		172.25.121.234	
JAT_Test	snmpv2c 🔘		172.20.*.*.*.*	-
A Page 26	of 26 P		Displaying 1251 - 1284	of 1284

• Click **OK**; the Edit Credentials window appears with a successful saved message.



• Click **OK**, the window closes; the next step is performing the steps for an inventory upload.

Rules Package

This section covers the following Rules package areas:

- Rules Package Components
- Installing Rules Package in the CSPC
- Upgrading or Deleting the Existing Rules from CSPC

Rules Package Components

The following list identifies the different components that make up the rules package and states what their purpose is:

- Manage Data Collection Profiles defines, and configures the Collection Profile, which contains datasets and lets you identify the devices for which the data sets needs to be fetched. You can Add, Modify, or Delete a collection profile.
- Manage Data Sets is used for creating a new data collection point. Datasets are the building blocks of CSPC Collection Profile. Datasets contains the platform definitions, data masking rules. You can Add, Modify or Delete datasets.
- **Platform Definitions option** –defines custom existing platforms which are not already defined in CSPC. You can add a new platform definition, and modify or delete an existing platform definition.
- Manage Data Integrity Rules option is used to Add, Modify, or Delete a data integrity rule. Data Integrity Rules are used to generate custom error messages whenever it encounters a pre-defined expression.
- Manage Data Masking Rules option is provided to add a new Data Masking Rule. Masking Rules are used to mask some of the sensitive data in the command output. You can Add, Modify, or Delete a masking rule.

Installing Rules Package in the CSPC

The installation of the rules package is performed in two different scenarios:

- Installing the rules package on a collector for the first time
- Performing a rules package upgrade (upgrading the rules package from a previous release).
- ٩.

Note In the rules package upgrade process the existing rules are first removed (see <u>Upgrading or Deleting</u> <u>the Existing Rules from CSPC</u> for more details) then this section (Installing Rules) is performed next.

This section describes the process for installing a new rules package:

Prerequisites

This section describes the rules package installation pre-requisites:

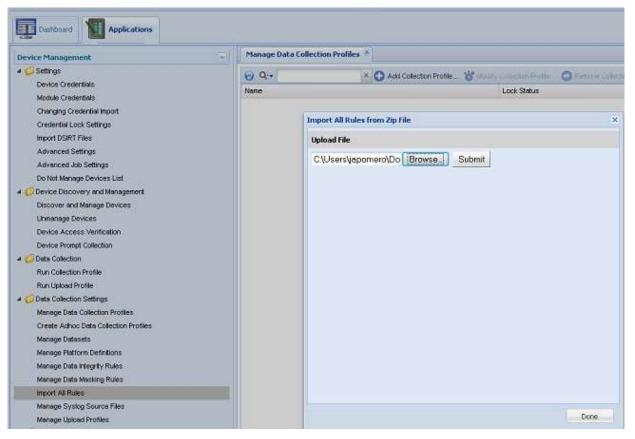
- Download the rules from the CCO location or get the latest rules from rules team.
- Unzip the rule package in your local desktop.

User can load the rules by the following two methods,

- Loading all rules in one download
- Loading rules one by one.

Importing All Rules

This section describes the process for importing all the rules at one time:



- On the CSPC navigation pane choose **Categories** > **Data Collection Settings** > **Import All Rules** ; an All Rules window appears.
- In the All Rules window click Browse.
- Navigate to the location where you downloaded your rules package and select CSPC2-DD-RP1.42.0.zip (or whatever rules package may be applicable).
- Click **OK**; this starts the rules package installation process.

plo	ad File			
C.N.	/sers\japomero\Do	Browse.	Submit	
		F	PSS-CSPCRules-2.1T1(3).zip 100	% uploaded
No.	Entry	Status	Message	
1	masking_rule.xml	Imported	SuccessFully imported	
2	CNCGlobalinterityR	Imported	SuccessFully Imported	
3	ACNS.xml	Imported	SuccessFully Imported	
4	ACSWani	Imported	SuccessFully Imported	
5	ADEOS.xml	Imported	SuccessFully Imported	Ļ
6	AtigeOS.xml	Imported	SuccessFully Imported	
7	CatOS cml	Imported	SuccessFully Imported	
8	CatOS_5000.xml	Imported	SuccessFully Imported	
9	CatOS_63ge.conl	Imported	SuccessFully Imported	
10	CCM.xml	Imported	SuccessFully Imported	
11	CCMMx.coml	Imported	SuccessFully Imported	
12	CCM5coml	imported	SuccessFully Imported	
13	CDS.xml	Imported	SuccessFully imported	
14	CIMC Firmware.cml	Imported	SuccessFully imported	-

• Wait for the processing to complete.

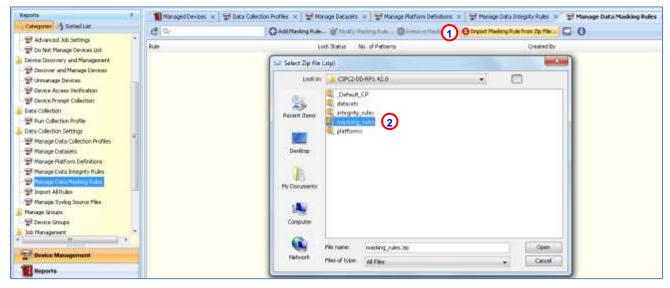
Importing Rules Package One by One:

This section describes the process for loading the rules package one at a time. The install process uses the following sequence when loading the rules package:

- Manage Data Masking Rules
- Manage Data Integrity Rules
- Manage Platform Definitions
- Manage Datasets
- <u>Manage Data Collection Profiles</u>

Manage Data Masking Rules

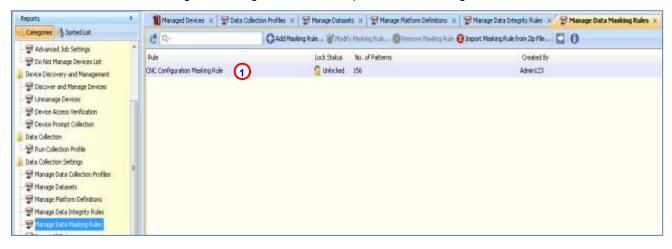
This section describes the process for loading the data masking rules:



- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Data Masking Rules
- Select Import Masking Rule from Zip File.
- Select the **masking_rules.zip** ⁽²⁾ from the local desktop, which the user already downloaded.
- Unzip the latest rule package.
- Click Open to install.

Reports SortedLat Categories	1.2° Importing Masking Raleji) 🔤 Import Nesking Raleji	ngrity Roles 💉 🐨 Manage Data Masking Roles 🔹 () from 20 Filo 🛄 🕕
문 Advanced Job Sattings Rule 문 Do Natz Herrage Dences Litt Rule Device Decreery and Management The Dences Litt 문 Do Socree and Manage Dences The Dences Litt Et functionage Dences The Dences Herritoton Et functions with Rubin Dences Herritoton Et functions With Rubin The Dences Herritoton Et functions Settings The Manage Data Calection Profiles Et Manage Data Calection Profiles The Manage Data Calection Profiles Et Manage Data Calection Profiles The Manage Data Calection Profiles Et Manage Data Calection Profiles The Manage Data Calection Profiles Et Manage Data Calection Profiles The Manage Data Calection Profiles Et Manage Data Calection Profiles The Manage Data Calection Profiles Et Manage State S	No. Name Status Plessage I CKC Configuration Mailing Rule Insorted Successfully Insurted. Introducting Rule Successfully imported 1 Mailing Rule(s) from the 2 g Rile. CKC	Created By

• You will see a message indicating a successful import of the Masking Rules.



• Make sure that the masking rule installed properly by ensuring that the update appears in the CSPC application window.

Manage Data Integrity Rules

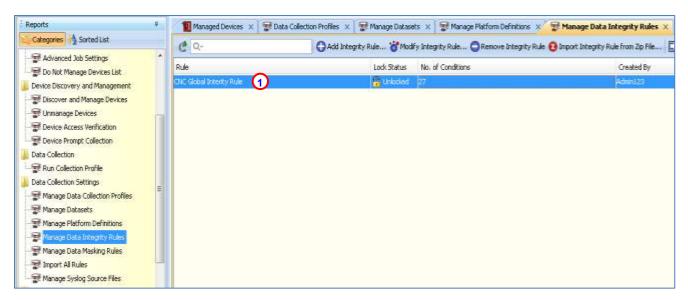
This section describes the process for loading the data integrity rules:

Reports #	Managed Devices 🗴 👮	Data Collection Profiles 🗴 💱 Manage Datasets 🗴 💱 Manage Platform Definitions	🗴 🗟 Manage Data Integrity Rules >
Categories 🔥 Sorted List	e a.	🕞 Add Integrity Rule 谢 Modify Integrity Rule 🔘 Remove Integrit	2 D Import Integrity Rule from Zip File
- 😴 Advanced Job Settings - 😴 Do Not Manage Devices List	A Rule	Lock Status No. of Conditions	Created By
Device Discovery and Management		that Select Zip file (zip)	x
🐨 Unmanage Devices		Look in: 🗼 CSPC2-00-RP1.42.0	· 0
Device Access Verification Device Prompt Collection Data Collection Run Collection Profile Data Collection Settings Wanage Data Collection Profiles Wanage Datasets Wanage Platform Definitions	Ę	Recent Items	
- 국왕 Manage Data Integrity Rules - 국왕 Manage Data Masking Rules - 국왕 Import Al Rules - 국왕 Manage Syslog Source Files - Manage Groups	_	My Documents	
Device Groups Job Management		Computer	
Device Management		File name: Integrity_rules.zip Network Files of type: All Files	Cpen Cancel
Reports			

- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Data Integrity Rules
- Select Import Integrity Rule from Zip File;² the Select Zip file window appears.
- Select the **integrity_rules.zip** from the local desktop, which the user already downloaded.
- Unzip the latest rule package.
- Click Open to install.

Reports	Managed D	12 Importing Integrity Rule(s)	Integrity Rules ×
Categories 🛃 Sorted List	e Q-	Import Integrity Rule Status	Aule from Zip File
Image Devices List Image Devices Image Devices Image Devices Access Verification Image Device Prompt Collection Image Device Prompt Collection Image Device Prompt Collection Image Data Collection Profile Image Data Collection Profile Image Data Collection Profile Image Data Collection Profiles Image Data Making Rules Import All Rules Imanage Systog Source Files </td <td>Rule</td> <td>No, Name Status Message 1 CWC Global Intenty Rule Imported Successfully Imported. Import Integrity Rule Successfully imported 1 Integrity Rule(s) from the Zip file. OK</td> <td>Created By</td>	Rule	No, Name Status Message 1 CWC Global Intenty Rule Imported Successfully Imported. Import Integrity Rule Successfully imported 1 Integrity Rule(s) from the Zip file. OK	Created By

• You will see a message indicating a successful import of the Masking Rules.



Make sure that the integrity rule installed by ensuring that the update appears in the CSPC application window.

Manage Platform Definitions

This section describes the process for loading the data integrity rules:

Reports P 1 Hanaged David	us 🗴 🗑 Data Collectors Profiles 🗴 😵 Manage Dataents 🛪 😨 Manage Platform (Amerika 🔹 🐨 Manage Dota Integrity Rules 🗴 🐨 Manage Data Mailing Ruley 😰
Categories 🔥 Suited List	O 4dd Rations Defeation W Hodds Ruthers Defeation O 4	anuve Matham Defention 📵 Deport Matham Defention Non Zo File 🖸 🚺
To Not Manage Devices List	Lock Status No. of Canditions	Created By
S Device Discovery and Hanagement	adotted a	per l
E Discover and Hanage Devices	triacted 1	100
Etmanage Devices	interior p	
P Device Access Verfication	full Select Zip file (sip)	HELLING
- 27 Device Prompt Collection	look #v 🚺 CBPC2-80-#P1.42.0	
- St Rur Collection Profile	_Default_CP:	
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Weeage Data Collection Profiles	Recent Bons entegrity, rules	
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I House Data Integrity Rules	Devitip	
F Havage Data Masking Rules	and the second se	
Enport All Rules Makage Systog Source Files		
Manage Systep Studie Hes	49	
B Device Groups	My Documents	
bill and second +		
+ +		
Desice Management	Computer	
T Reports	No reares: performs ap	Open

 On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Platform Definitions.

Reports	Managed Devices	👔 😨 Data Collection Profiles 🗴 😭 Nanage Datasets	🗴 😨 Manage Platform Definitions × 🚏 Manage Data Int	tegrity Rules 🗴 🕎 Manage Data Masking Rules 🔅
Categories Sarted List	ea	See Importing Platform Definition	0	I
- 🐨 Advanced Job Settings - 🐨 Do Not Manage Devices List	Pleforn	Import Platform Definition Status		
Device Discovery and Management	FINEMALIE IN	No., Nane	Status Wescage	
Storyer and Manage Devices	ASA IN	140/6	Inported Successfully Inported.	2
		2 AC3H	Imported Successfully Imported,	
P Device Access Verification		3 ADEOS	Imported Successfully Imported.	
E Device Prompt Collection		+ AltigaC5	Imported Successfully Imported.	
Data Collection		5 CMO5	Inported Successfully Inported.	
Run Collection Profile		6 Cab06_5000	Imported Successfully Imported.	
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Manage Data Integrity Rules		11 CD5	OK	
🐨 Menage Data Neslang Rules		12 CDVC Provi	In the second second	
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Panage Syslog Source Files		14 0PA	Imported Successfully Imported.	
🖌 Nahage Groups		15 BCD5	Imported Successfully Imported.	
🗑 Device Groups		16 PW9N	Inported Successfully Inported.	
🔓 Job Management	8	17 6005	Imported Successfully Imported.	
· · · ·		18 G55	Imported Successfully Imported.	
C		16 422	asharoad precessionly taharoad	

Note

If this is not a new install, but is instead an upgrade, then the following rules is should already be present before importing the platform rule::

- PIX_84
- FIREWALL_84
- o ASA_84

The user can upgrade the latest rules on top of these three pre-existing rules without any issues.

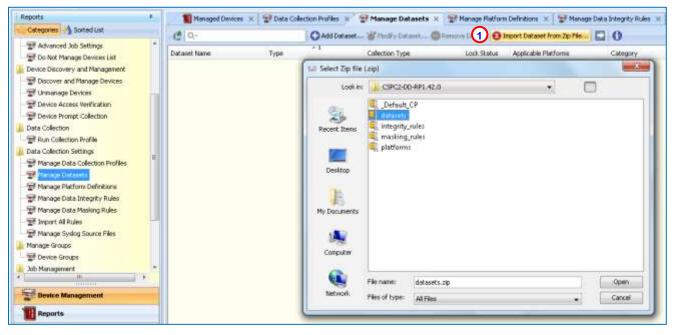
- Click Import Platform Definition from Zip File.
- Select the **platforms.zip** from the local desktop, which user already downloaded.
- Unzip the latest rule package.
- Click **Open** to install.

eports 4	Throughd Deverse > To D	ata Collection Profiles 📧 😨 Manage Datase	a x Thenage Pl	atform Definitions 🗶 😰 Hanage Data Integrity Rules 🗴 😰 Hanage Data Hasting Rules
Categories 🐴 Suited List		Add Hatforn Defration	Hodra Hattam Deliaton	🕒 hannare Huthan Dofnition 😝 Inport Platform Definition from Zip File 🔽 🗿
P Advanced 3ob Settings		and the second s		
To Not Manage Devices List	Platform		No. of Conditions	Oreated By
Device Discovery and Management	105_XH	C Unlocked	1	Adom123
Discover and Manage Devices	COM	S Unlocked	3	Admit23
El Litreanage Devices	101_151010	S Linkocked	1	Admin (23
Device Access Venification	SanOS	🔓 Unlocked	1	Adren 123
Device Prompt Collection	PVC	Linkocied	1	Admin123
Date Colector	105_es5100	G Uniccled	1	Admin1.23
Plan Collection Profile	C0444	Curacited	i.	Admin123
Data Collection Settings	ADEOS	🔓 Unitodied	1	Admini 20
Planage Data Collection Profiles	WHEAS, CSSLISH	Curlocked	i i	Admin123
Hanage Datasets	305_10000	G Unkoled	1	Admin123
Press Active Letters	105_CM	S Unlocked	1	Admin123
Hanage Data Integrity Rules	WUNSW HIGH 6220	🔓 Unlocked	1	Admint.20
I Manage Data Masking Rules	016	C Unlocked	1	Admin123
E Inport Al Rules	PW94	C Unlocked	1	Admint 23
P Hanage System Source Files	105,4000	C Unicited	1	Admint 23
	WebNS_CSS115xx_730e	C Unlocked	1	Admint 20
Nanage Groups	WLSE_05	C Uniodied		Admin(2)
To Device Groups Job Management	Tandberg	C unloced	-	Admint 23

 Make sure that the platform definition rules installed properly by ensuring that the update appears in the CSPC application window.

Manage Datasets

This section describes the process for loading the data integrity rules:



- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage datasets,
- Click Import Dataset from Zip File.
- Select the datasets.zip from the local desktop, which the user already downloaded.
- Unzip the latest rule package.
- Click **Open** to install.

le • Settings • Management • Reports	Administration + Help +		
Dathboard M Applications			
Reports	* Managed Devices	s 🗴 😰 Data Collection Profiles 🗴 😨 Manage Datasets 🗴 😭 Manage Platform Definitions 🗴 😨 Manage Data In	Regrity Rules
Categories 👌 Sorted List	e q.		
Advanced Job Settings	A North	1.4 Importing Dataset(s)	64
Do Not Manage Devices List	Dataset Name	Import Dataset Status	_
Device Discovery and Management		The full second	
Tiscover and Manage Devices		No. Nane	
- Wittimanage Devices	+-	1_opt_CSCOar_bin_aregond -Clocalhost -N admin -P alcuser Is _radius _ grep -i version	1
- St Device Access Verification		2 ActiveJPPhone	10
Bevice Prompt Collection		3 admin mode show configuration failed startup	
🗼 Data Collection		4 admin mode show running-config	_
Run Collection Profile		5 admin show diag detail	
📕 Data Collection Settings	-	6 admin shore filesystem location al	
The Manage Data Collection Profiles	-	7 admin show fod pi Import Dataset	
- Patrop Detainet		8 admin show instal	
The Manage Platform Definitions		9 admin show install an Successfully imported 239 Distaset(s) from the Zip file.	
Manage Data Integrity Rules		10 admin show install	
T Manage Data Masking Rules		11 admin show instal	
Timport All Rules		12 admin show kwent	
Thenage Syslog Source Nes		13 admin show platform	
Manage Groups		14 AIRESPACE-SWITCHING-MID_SCALARS	
Device Groups		15 AIRESPACE-WIRELESS-MB_burAP	
Lob Management	-	16 AIRESPACE-WIRELESS-MIB_bsnMobileStation	

• You will see a message indicating a successful import of the datasets from the zip file.

Rapizita	Managed Devices ×	Data Collection Profile	🗙 🐨 🐨 Manage Datasets 🗴	Wanoge Platfor	n Definitions 🛪 🔛 Har	nage Data Integrity Rules 🛪 🍸	Manage Data Masking Rules
Cotogorum 1 Serted List	d a	QAHO	Mant. Shut, Land. 0	Amore Dataset (Import Dataset from Zp Fil	0 0	
- 🗑 Advanced Job Settings	- Datwet Name	Type - 1	Collection Type	Lock Status	Applicable Flatforms	Category	Created By
To Not Manage Devices List	show vdc run Dynamic	Dynamic	01	C Linkdard		Subvick	Admini23
Device Discovery and Hanagement	show with start Dynamic	Dynamic	ai	C Lakeded		Subvide	Admini 23
To Discover and Manage Devices	agt CSCOw bin around <	Static	ai	C Uniodat	(Custom)	mandatory	Admini 20
Torritor Access Verification	ActiveIPPhone	Static	SOMP 13%, Requests	C Unicodad	(Custors)	SOAP	Admin 123
Device Prompt Collection	edvin mode show configuratio	Static	0.1	C Linkodest	[Cuetors]	Generic Commands	Admini 23
Data Colector	edition mode show running-config	Static	a.	G Unicolast	(Custon)	Generic Commands	Admin 123
The Collection Profile	while show dag detail	Static	0.1	S Unkodost	(Custon-)	Inventory	Admin)23
Date Collection Settings	admin show filesystem location all	Static	at	G Unkdad	(Custon)	inventory	Admin323
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Make sure that the Dataset rules installed properly by ensuring that the update appears in the CSPC application window.

Manage Data Collection Profiles

This section describes the process for loading the data collection profiles:



- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Data Collection Profiles.
- Click Import Collection Profile from Zip File.
- Select _Default_CP.zip from the local desktop, which the user already downloaded.
- Unzip the latest rule package.
- Click **Open** to install.

Reports 6	Manage C Q-	ed Devices X 🐨 Data Collection Profiles X 🐨 Manage Datasets X	🛛 🐨 Manage Ratform Definitions 🙁 🔤 Manage Data Inte m Profile	
문 Advanced Job Settings * * * * * * * * * * * * * * * * * * *	Name	Lock Status Scheduled	Collection Profile(s) from the Zip File. OK	Deteset

• You will see a message indicating a successful import of the Collection Profile.

ie + Setting + Manapenent + Report +	Administration + Help +					cisco
Reports +	Managed Devices = 22	ata Collection Profiles 🛪 💱 Manap	Detants x 2 Manus	pe Flatform Defentione 🗵 🔡 Manage Data D	degrity Rules 🛪 🔤 Manage Data Muslerg	Radio = 4 + 1
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Upgrading or Deleting the Existing Rules from CSPC

The process for upgrading the rules package from one release to another requires the deletion of the current rules package and then the installation on the new rules package. This section describes the process for deleting the current rules package.

Important There is a very specific order for deleting the existing rules from the CSPC server, follow the deletion order noted below:

- Data Collection Profiles
- Datasets
 - o Delete Dynamic Rules first
 - Delete Static Rules <u>last</u>
- Platform Definitions
- Data Integrity Rules
- Data Masking Rules

Manage Data Collection Profiles

This section describes the process for removing the data collection profiles

ame			Lock	Status	Scheduled	Device Selection	Dataset Coun
inimum Collector Profi	ie		Gu	nLocked	0	All Devices Selected	104
PACP			6.	nLocked	0	All Devices Selected	236
efault_CP			G	nLocked	0	All Devices Selected	236
	Deletir	ng Collection Profile(s)				×	
				Job Completed			
	No	Name	Status	Message			
	1	Minimum Collector Profile	Deleted	Successfully deleted the collection profil	e		
	2	DPACP	Deleted	Successfully deleted the collection profil	e		
	3	Defaut_CP	Deleted	Successfully deleted the collection profile	e		
[₃				User Editor Successfully deleted 3 Collect Profile(s).	ion		

- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Data Collection Profiles
- Select all 3 collection profiles:
 - Minimum Collection Profile
 - o DPACP
 - Default_CP
- Click Remove Collection Profile ①

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• Make sure that all 3 collection profiles were deleted successfully from the collector.

Manage Datasets

This section describes the process for removing the datasets:

evice Management	Manage Datasets			0			
O Settings	0 9.	× 🔂 Add Dataset.	Whith Denne.	Remove Dataset	Import Dataset from a Zip f	0	
Cover Discovery and Management	Detaset Name	Туре	Collection Type +	Look Status	Applicable Platforms	Category	Created By
Run Collection Profile Run Ubload Profile	ALTIGA-VERSION-STATS-MIB_	Static Confirm	SMMP	<u>ß</u>	[Custom]	SNMP Scalars	system
Data Collection Settings	BASIS_CARD_GENERIC_1.3.6	9 Are you sur	e you want to delete the s	elected	[Custom]	BASIS_CARD_GENERIC	system
Manage Data Collection Profiles Create Adhoc Data Collection Profiles	BASIS-GENERIC-MIB_SCALAR	datasets?			[Custom]	SNMP Scalars	system
Manage Datasets	BASIS_SHELF_shelf		Yes No		[Custom]	BASIS_SHELF	system
Manage Platform Definitions	CALISTA-DPA-MIB_SCALARS	Static	SWIP		[Custom]	SNMP Scalars	system
Manage Data Integrity Rules Manage Data Masking Rules	CHASSISMGREXT-MIB_SCAL	Static	SWIP	GunLoded	[Oustorn]	SNMP Scalars	sysen
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Manage Syslog Source Files Manage Ubload Profiles	CHASSISMGREXT-MIB_apCha	Static	SWIP	GUNLopied	[Custom]	CHASSISMGREXT-MIB	system
🕼 Manage Groups	check_if_CME_enabled	Static	SNMP	UnLooked	[Custom]	Internal SNMP Condition	system
💭 Job Management	Active/PPhone	Static	SOAP XML Requests	GunLocked	[Oustom]	SOAP	system

- On the CSPC navigation pane choose Applications > Data Collection Settings > Manage Datasets
- Click Remove Dataset;¹ a confirmation window appears, click OK.

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• A message appears indicating that the first set of datasets have been successfully deleted; click OK.

- Note
 - The web-client allows you to view and delete only 50 datasets at a time.

Bevice Management	Manage Data Collector Pr	fles * Manage Datasets *					
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• Make sure that all the datasets are deleted from the server.

Manage Platform Definitions:

This section describes the process for removing the platform definition

Device Management	Manage Datasets * Manage Pla	atform Definitions *		6				
O Settings	0 9	X 🚱 Add Platform Definition	1 W Modily Platform Celliniton 🗿 Remove Platform Definition 📵 Import Platform Definition from a Zip Ne 🖛					
G Device Discovery and Management G Data Collection	Platform		LociStatus	NoOfCandit	CreatedBy -			
Data Collection Settings Manage Data Collection Profiles	WANSW_MGX_8850_PXM1E_PX	M45_8950	GUNLooked	1	şdem			
Create Adhoc Data Collection Profiles	Solaris_PGW		GUnLocked	1	aysem			
Manage Datasets	Topspin_SPS		0	1	siden			
Manage Platform Definitions Manage Data Integrity Rules Manage Data Masking Rules Import All Rules	NXOS_1	Confirm () Are you sur	e you want to delete the selecte	d Platform Definitio	ns?			
	DISABLE_SHOW_INVENTORY Solaris_CAR	- *	Yes No					
Manage Syslog Source Files Manage Upload Profiles	OPA			1	aysem			
Manage Groups	105_7300		GunLocked	1	aydem			
Job Management leports +	DISABLE_SSH2		GUnLooked	2	şysem			
Administration 🗧	NDLOS_VDC			1	sydem			

- On the CSPC navigation pane choose Applications > Data Collection Settings > Manage Platform Definitions.
- Select all the platform rules.
- Click Remove Platform Definition.
- A message appears indicating that the first set of datasets have been successfully deleted; click OK.

Note The web-client allows you to view and delete only 50 datasets at a time.

Device Management	- Manage Data Collectio	n Profiles *								
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Manage Data Integrity Rules:

This section describes the process for removing the Data Integrity rules:

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Reports		Collection Problem × 1 🐨 Manage Datasets 🙁 1 🐨 Manage Restorn Definitions	Second consideration in the second s second second sec	8.9
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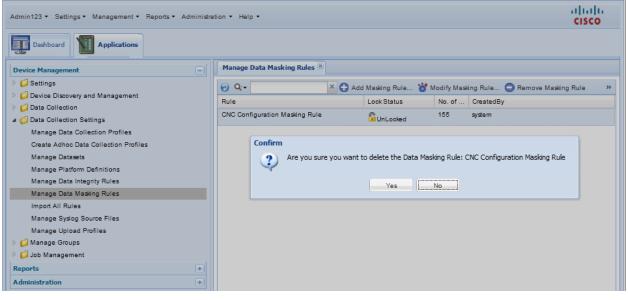
- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Data Integrity Rules.
- Select CNC Global Integrity Rule.
- Click Remove Integrity Rule.



• Make sure that the rule was deleted.

Manage Data Masking Rules

This section describes the process for removing the data collection profiles:



- On the CSPC navigation pane choose Categories > Data Collection Settings > Manage Data Masking Rules.
- Select CNC Configuration Masking Rule.
- Click Remove Masking Rule.

Manage Data Masking Rules 🛞				
😧 Q:-	🔂 Add Masking Rule 🏅	🕈 Modify Mask	ing Rule 🔵 Remove Masking Rule	**
Rule	Lock Status	No. of	CreatedBy	
CNC Configuration Masking Rule		155	system	
	r Successfully deleted the Data Rule: CNC Configuration Mas			

Make sure that the rule is deleted.



ISO image: Initially the rule appears to be properly removed from the collector (as seen from CSPC – Browser), but it was not. The DPACP, Datasets and few more platform definition rules popped up after restarting the server.

Workaround: To avoid DPACP, datasets resurfacing in the ISO image when the collector needs to have rules upgraded, you need not restart server. But instead import w/ new rules, over the collector

ZIP & OVA Images: No issues if user follows the above mentioned order while deleting the rules.

The required work for deleting the existing rules from the collector has been completed. The next step in the rules upgrade process is installing the new rules package. Go to <u>Installing Rules Package in the CSPC</u> for details on performing the next part of the upgrade process

CSPC Collector Upgrade

This section describes the process of how to preserve, and then re-use some of the important data used by the collector when upgrading your collector to another release. Collector information that this section covers are the following areas:

- What to Export
- What to Import

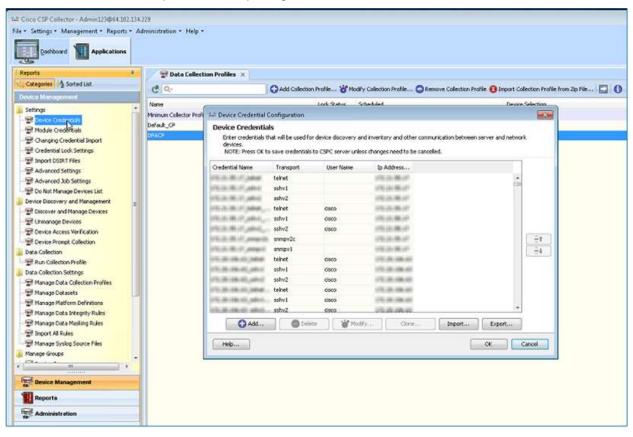
What to Export

The following sections identify the areas of data that can be exported before the performing the collector upgrade:

- Device Credentials
- Managed Devices
- Discovery Jobs

Device Credentials

This section describes the process for exporting the device credentials:



- On the CSPC navigation pane choose Categories > Device Management > Settings > Device Credentials; the Device Credentials window appears.
- Select all the entries in the list.

Note When you select none OR all entries, both of those options select ALL the devices in the list. If you select one or more entries then you will export only the devices you selected.

<u>____</u>

Device Credentials Enter credentials the devices. NOTE: Press OK to	at will be use		1.154 TOSY 1541 (* 155	tory and other comm ges need to be cance		erver and networ	k
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72,25,256,45,45,46,274,2 22,25,256,45,46,274,44,. 72,26,256,45,45,44,. 72,26,256,45,45,44,45,2		6500 6500 6500 6500	10	2 25 306 40 2 25 306 40 2 25 306 40 2 25 306 40		-	
Add			Modfy	Clone	Import	Export	

- Click Export, the Verify User Password window appears.
- Enter the user name and password, then click **OK**.

Directory C:\Users\japomero\Desktop	Browse

- Select the Pari Device option.
- Click Browse to designate what folder you want the exported file saved.
- Click **OK**, an Edit Credentials warning appears.



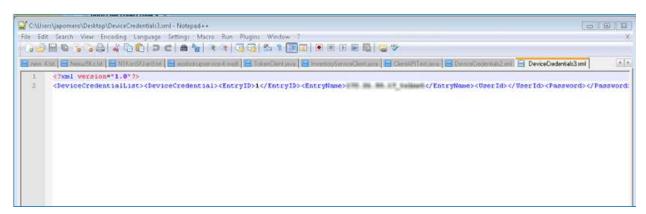
• The Edit Credentials warning provides a warning about unencrypted data being available in the chosen export format; click **Yes**.

Export			areas
0	Successfu	lly exported.	
(*****	OK	Open Exported File	Open Folder

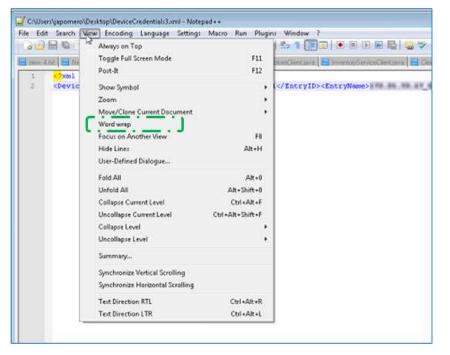
• An informational message indicates the export was successful.

- Click either OK, or Open Exported File.
- Clicking Open Exported File opens the file.

Note The exported file is saved in an XML format.



• Use word wrap to see the info better or display the file in a web browse



• Another option is to open the XML formatted export file with a web browser.



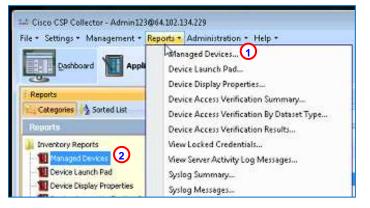
There is an entry id and entry name O for each device credential that was exported.

Note

IP Address related info in the above graphic has been blurred out.

Managed Devices

This section describes the process for exporting the Managed Devices information:



• There are two ways to access the Managed Devices data, from the menu 0 or navigation pane.0

C	λ+	🖾 h · O								
Ip Address +	Host Name	• Sys Object 1d •	Device Family +	Froduct Model +	Serial Number 👻	Vendor Name •	OS Name. •	OS Version +	Discovery Date/Time	Г
A	Rolls of the	.1.3.6.1.4.1.9.1.569	Routers	CISC0877W-G-A-K9	Balancian	Osco Systems Inc.	105	12.4(4)002	Thu, Jan 31, 2013 16:56:14 -0500	1
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10.00.00.00	and delivery.	.1.3.6.1.4.1.3607.1.20.10.10	Switches	CNS-15454		Cerent Corporation	GenericDevice	07.23-M081-22.94	Thu, Jan 31, 2013 16:56:48 -0500	
ALC: NO. 181	107620	.1.5.6.1.4.1.9.1.970	Routers	UC520-24U-48RJ-K9	Pressioner	Osco Systems Inc.	105	12.4(11)/0/7	Thu, Jan 31, 2013 16:56:47 -0500	
ALC: NO. OF CO.	TABLE .	.1.3.6.1.4.1.9.1.516	Switches	WS-C3750E-46PD-5	ALCON L DRIVENDER	Cisco Systems Inc.	105	12.2(35)585	Thu, Jan 31, 2013 16:56:49 -0500	
ALL BARRY OF	(PROPERTY)	.1.3.6,1.4.1.9,1.516	Switches	WS-C37505-24P5-5	distanting to the second	Osco Systems Inc.	105	12.2(25)SEE3	Thu, Jan 31, 2013 16:56:49 -0500	
Station .	the interior balling	.1.3.6.1.4.1.9.1.641	Routers	CISCOLELLW-AG-A8/9	ATTEND OF THE OWNER	Osco Systems Inc.	105	12.4(15)/05	Thu, 3an 31, 2013 16:56:49 -0500	
10.000	manual division	.1.3.6.1.4.1.9.1.570	Routers	CISCO878W-G-A-K9	Ball Laboration	Osco Systems Inc.	105	12.4(11)/0/10	Thu, Jan 31, 2013 16:56:49 -0500	
10.000	all ball donated by	.1.3.6.1.4.1.9.1.879	Routers	UC520W-8U-4FX0-K9	discourses and a second	Osco Systems Inc.	105	12.4(15.12)XW	Thu, Jan 31, 2013 16:56:49 -0500	
A. 48.44	No. Committee	.1.3.6.1.4.1.9.1.603	Switches	W5-C3750G-48P5-5	Augustable man	Osco Systems Inc.	105	12.2(25)5883	Thu, Jan 31, 2013 16:56:55 -0500	
ALCONTRACT.	And 1889 11-15	.1.3.6.1.4.1.9.1.620	Routers	CISCOL041	ATTENDED ATTENDED	Osco Systems Inc.	105	12.3(8)/64	Thu, Jan 31, 2013 16:56:49 -0500	
5	disclare.	.1.3.6.1.4.1.9.1.620	Routers	CISCO1841	ATT CONTRACTOR OF	Osco Systems Inc.	105	12.4(6)983	Thu, Jan 31, 2013 16:56:49 -0500	
ALC: NO COMPANY	(August)	.1.3.6.1.4.1.9.1.154	Routers	A\$2511-A3XX	ADDRESS OF T	Osco Systems Inc.	105	12-0(5)7	Thu, Jan 31, 2013 16:57:46 -0500	
S. Market	No. and	.1.3.6.1.4.1.9.1.154	Routers	A52511-R30X	ALCOHOLD .	Osco Systems Inc.	105	12.0(5)7	Thu, Jan 31, 2013 16:57:46 -0503	
ALC: NO. OF TAXABLE	And Inches in the local division in	1.3.6.1.4.1.9.1.359	Switches	WS-C29507-24	Annual Statistics	Osco Systems Inc.	105	12.1(22)646	Thu, Jan 31, 2013 16:56:57 -0500	

• Shows all the devices the collector has discovered so far.

C 🛄 🖽 o	(r)		
Ip Address 👻	Host Name	 Sys Object Id 	Device Family
172.35.006.63	Router-877W	.1.3.6.1.4.1.9.1.569	Routers
172.33.145.254	ts-c26	.1.3.6.1.4.1.9.1.17	Routers
192.348.94.45	AP-1200	.1.3.6.1.4.1.9.1.525	AccessPoints
112.168.95.67	Ske4_2950LRE	.1.3.6.1.4.1.9.1.483	Switches
142.368.96.330	2950-Switch	.1.3.6.1.4.1.9.1.324	Switches
172.20.104.140	2950	.1.3.6.1.4.1.9.1.428	Switches
172.08.148.125	TS-01202	.1.3.6.1.4.1.9.1.27	Routers
110-148-199-196	RPATRI-DFM3500XL	.1.3.6.1.4.1.9.1.287	Switches
192.148.94.172	WebVpn-2811	.1.3.6.1.4.1.9.1.576	Routers
102 168 00 2	outstat	19414101519	Custahas

• To generate a prompt for the export option click the arrow button 🗍 to the right of the drop-down list.

Export Format	CSV (Comma delimited) 👻	
Directory	C:\Users\japomero\Desktop	Browse
Help	OK	Cancel

- Specify **CSV** for the export format.
- Click **Browse** and specify the location to save the export file.

	net · 11 · A' A'	= = = &+ Sva	g test General	·	Normal 84	d	Good	taeutral	200	*	I AutoSum	. 57	8 6	
J Format Paintar	Z B + 1 (□ + 1 加 - Δ -		94 di Centrei - 5 - 16 +	A 2 Conditional Namual Formation	Calculation	eckcell	fightnatory	Input	Inort	Delete For	at 2 Chart	Sot 0.		
Clothead	100 3	Argument	is Minte	surround . In case		16N				Ore:		ating.		Vesta
005 + 0	A Routers											The second s		
N	Car I riverara.													_
Macaga/Device														10 E
- A		C	D	Sec. Sec.		Harris Harris	and manuf	- K.	L	M	N O	1.1	0	1
1	Host Name	Sys Object Id	Device Family	Product Model	Serial Nur Vend	or Ni OS Name	OS Versio Datco	very Date/Time						
2	Router-\$77W	13.6.1.41.9.1.569	Routers	GSC0977W-G-A-K9	+O1co	Syst IOE	12.4(4)xC This J	an 91, 2019 16:56:1	4-0500					
1	ts-c26	1361419117	Routers	2503204	Gaco	Syst 105	12.0(3)7 Thu, J	un XI, 2013 16:56:1	5-0500					
	AP-1200	13614191525	AccessPoints	AIR-AP123245-A-K3	G100	Syst IOS	12.3(8)JAJ Thu, J	en 31, 2013 18:56:1	5-0500					
1	5/te-4_2550L/IE	.1.3.6.1.4.1.9.1.483	świtches	WS-C2950ST-0-LRE	Gico	Syst 105	12.5(22)K/Thu, J	en 31, 2010 16:56:1	5-0500					
	2950-Switch	.1.3 6 1.4 1.9 1.924	Switches	WS-C2958-24	0100	Syst 105	12.1(20)6/Thu, J	un 31, 2013 16:56:1	5-0500					
7	25	50.1.3.6.1.4.1.9.1.428	Switches	W5-C2950G-24-EI	Cite	Syst 105	12.5(22)6/Thu, J	un 31, 2013 14:56:5	6-0500					
Intranspiration	T5-O1202	.1.3.6.3.41.9.1.27	Routers	0/5002511x04	Orce	Syst 105	11.3(5) Thu, J	an 31, 2013 16:56:4	6-0500					
3	RPATR-OFMITS	00X.1.3.6.1.4.1.9.1.207	Switches	0100 WS-C3524-PWR-X	Liok Gree	Syst IOS	12.0(5)WCThu J	an 31, 2013 16:56 4	6-0500					
LO	Web/pn-2011	13614191576	Routers	01003911	O tco	Syst IOS	12.9(14)71Thu, J	an 31, 2013 14:56:4	6-0500					
1	(witch4	13634191512	Switches	W3-C2750-40T3-S	10 ico	Sylt IOS	12.3(25)58 Thu, J	ien 31, 2013 14:56:4	6-0500					
12	Narv123-123	1.86.1.41.9.1.882	Routers	UC520-16U-4FK0-K3	G 900	Syst IOS	12.4(11)/6 This J	wn 31, 201316:56:4	6-0500					
11	2950_switch	18614191559	Switches	WS-C29507-48-51	O tce	Syst IOS	12.3(22)E/Thus J	en 31, 2013 16:56:4	6-0500					
A Sector Annual Content	he/bre-3745-1	13614131496	Routers	O1c0 3745	O tco	Syst 105	12.2(11)/TTNA.J	en 31, 2013 18 56:4	7-0500					
15 - 10 - 10 - 10 - 10	Cat-2970	13614191561	Switches	WS-C29700-2475-E	0.500	Syst 105	12.2(25)50 Thu, J	an 31, 2013 16:56:4	7-0500					
16	Router 1745	1361419166	Routers	Gisco 3745	Q1c0	Sylt 105	12.3(26) Thu, J	an 91, 2013 16:56:4	7-0500					
T	8-1750	11614191216	Routers	05001750	Gico	Syst IOS	12.3(26) Thu, J	un 31, 20131656:4	7-0500					
10	paytch-41	.1.361.41.91.615	Switches	WS-C85600-2475-5	Gsco	Syst IOS	12-202516EThus J	un 81, 2013 18:56:4	7-0500					
19	1751-92	13614191326	Routers	1751-V	O pco	Syst 105	12.3(26) Thu, J	an 31, 2013 16:56:4	7-0500					
20	00520	1361413185	Routers	UC\$30W-14U-28RI-K9	/ i G sco	Svit 105	12.4/11365 Thus, J	an 31, 2013 14:56:4	7-0500					
21		utr.1 16.141.9.1620	Routers	05003641	Gico			an 31, 2013 16:56:4						
22	CLE	13614191711	CUE	NM-CUE-EC				an 31, 2013 16:56:4						
3	106Lab/SW-TEST		Routers	G10072xx	O sco			an 31, 2013 14:5614						
24		*8.13614191561	Switches	W1-C29700-24T3-E		5HR 105		an 31, 2013 16:56:4						
and an other last	ond-1041-3	11616191620	Routers.	01001841		Systics		an 31, 2013 16:56:4						
N		041341419191	Switches	WS-C8750-24TS-S	I O Ico			un 31, 2013 16:56:4						
77.	emp15454ec	1.3.6.2.4.1.3607.1.20.10.1		ONS-15454		Contraction of the second		un 31, 2013 18:56:4						
	UC\$20	13614191970	Routers	UC520-240-4841-419	0100			an 31, 2013 14:5614						
	Switch	13614131516	Switches	WS-C3750E-48PD-5	Gitto			an 31, 2013 16:56:4						
10	3750-131-113	1.5614191516	Switches	WS-C1750G-14PS-5	Girco			an 31, 2010 16:56:4						
11		5nc.1.961.419.1641	Routers	05001911W-AG-A/19	10100			an 31, 2013 16:56:4						
72		7 13614191570	Routers	05C0878W-G-A-K9		Systics		an 31, 2013 16:56:4						
11	UC\$26-8U-4PX0		Routers	UC529W-8U-4Pi(0-4/9		Syst IOS		en 31, 2013 16:56:4						
14	Sig-Switch	13614191600	Switches	WS-C17500-40PS-5		Systics		an 31, 2013 16:56:5						
K K K ManagedD	Pakes (2)	14.05.000.001.000	* WILLINGS	113-21 (350-401-2-3	Cito	SPIRIOS	ALALADS 100.7	ani 24, 2063 18, 263	1.000				110	141

• Since the exported Managed Devices data is CSV (Comma Separated Value) data, the Info can be viewed in an Excel spread sheet.

Discovery Jobs

This section describes the process for exporting the Discovery Jobs information:

Reports Prover Very Reports Prove Very Repor	File + Settings + Management + Reports + Ad	Iministration + Help								
Image: Cervices	Reports 4 Reports 4 Reports	C I +: +: +: Job Id Job Nem	Q.	Description	Created By	Created On			Run Count	Next Schedule Time
	- 🔟 Device Launch Pad	Run Id State	status	Start Time		End Time	Action	Thu, Jan 31, 2013 17:00:39 -0500		t.
Werk Concest Ordentialis Werk Structure Alchryk (pdf Nessages) Sysleg Summary Sysleg Summary Collection Porflex Run Summary Collection Porflex Run Summary Collection Porflex Run Summary Disabled Protocol Report Disabled Protocol Report Devise Timeeut Configuration Debiset st	- 10 Device Access Verification By Dataset Type						Cancel Jab			
Collection Profile Run Surmary Collection Profile	Wew Server Activity Log Messages						1	lening This Job		
Disabled Command Report Very Inscut Configuration Soft Report Disabled Command Disabled Comma	- 🔟 Collection Profile Run Summary									
2 Discovery Jobs	-10 Disabled Command Report 10 Device Timeout Configuration									
i ob Mageneri Reports	- 10 Discovery Jobs 									

- On the CSPC navigation pane choose Categories > Job Reports > Discovery Jobs; the Discovery Jobs window appears.
- Click the View Job Log Details drop-down list, then click Create a new Discovery by Cloing This Job ... option. The Discover and Manage Devices window appears, displaying the Select Discovery Methods pane.

Discover and Manage Dev	ices
ielect Discovery Methods	
	Select the at least one of the following network device discovery methods.
	Discover devices with protocols such as CDP, OSPF and ARP.
	Discover devices by scanning/pinging range of Ip Addresses.
	Rediscover the currently managed devices
	Next >>> Import Cancel

- Check the Discover devices with known IP Addresses check box.
- Click Next; the Discover devices with known IP Addresses pane appears.

🖬 Discover and Manag	e Devices	
Discover devices with kn	own Ip Addresses	
Enter the list of 1p Addre	sses for the known devices,	
IP Address/Host Name		
+ Add - Remove	/ Update	
172.21.55.17 172.20.106.63 172.18.140.154 172.21.95.15 172.21.55.45 192.168.96.45 172.22.55.45 192.168.96.45 172.25.121.132 192.168.96.67 172.26.183.125 192.160.96.100 172.21.95.51 172.20.106.140 172.25.121.142 172.25.121.142 172.25.121.140 172.21.97.140 172.21.97.140		• "H"
172.18.140.125		•
	< Back Next 25	Help Cancel

• The Discover devices with known IP Addresses pane lists all the IP Addresses known by the collector. Click **Next**; the Discovery Schedule Options pane appears.

Discover and Manage Device	§	
iscovery Schedule Options		
Management Protocol		
* Management Protocol snmp	n3 👻	
Device Access Verification Opti	ons	
Run Device Access Verifica	ion on all Discovered Devices for the selected Protocols.	
Tehet Tshut	Sshv2 □srmpv1 □srmpv2c □srmpv3 □http. □https	
Dener Disert	Twice Daubus Daubus Duch Duch	
Job Schedule Options		
Start Discovery Now		
Schedule Discovery		
Schedule start Date/Time	February 8, 2013 = 02:55:31PM (4)	
Repeat schedule		
Repeat every	ninges	
Schedule end Date/Time	February 8, 2013 = 02:55:31PM -0-	
7		
	< Back Next > E	xport Settings Cancel

- On the Discovery Schedule Options pane click Export Settings.
- For Firefox goes directly to the download section

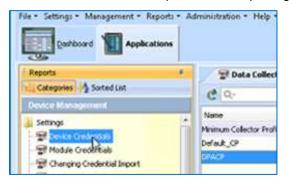
What to Import

This section identifies the areas of data that can be imported after performing the collector upgrade, and the data was previously exported before the upgrade. The following sections identify the areas of data that can be exported before the performing the collector upgrade:

- Import of Device Credentials
- Discover and Manage Devices
- Import Discovery Jobs

Import of Device Credentials

This section describes the process for importing the device credentials, after performing the collector upgrade:



• On the CSPC navigation pane choose Categories > Device Management > Settings > Device Credentials; the Device Credentials window appears.

edential Name	Transport	User Name	Ip Address			
	Tell Import Opt	ons		-Xi	n l	
	Import Format		ientials Repository (👻			
	File Name	apomero\Deskt	pp DeviceCredentials3.xml	Browse		Ēt
	Help		OK	Cancel		-3
	-				- 14	

- Click Import; the Import Options window appears.
- In the Import Format field specify Pari device ...
- Click **Browse**, then indicate the name and location of the previously exported device credentials file.
- In the Import Options window click **OK**, the previously exported device credentials are loaded into the Device Credentials window.

devices.			d inventory and other communications changes need to be cancelled.	in between server and network	
Credential Name	Transport	User Name	Ip Address		
72.21.55.17_telnet	teinet		172.21.55.17		
72.21.55.17_sshv1	sshwt		172.21.55.17	1226	
72.21.55.17_sshv2	sstw2		172.21.55.17		
72.21.55.17_telnet	teinet	cisco	172.21.55.17		
72.21.55.17_sshv1	sshw1	Edit Credentials		36	
72.21.55.17_sshv2	sshv2	East Steathings		2	
72.21.55.17_snmpv2c	snmpv2c	Success	fully imported credentials.		Ξt
72.21.55.17_snmpv1	snmpv1	v			÷4
72.20.106.63_telhet	teinet		QK		
72.20.106.63_sshv1	sshv1		2	2	
72.20.106.63_sshv2	sshv2	cisco	172.20.106.63		
72.20.106.63_telnet	teinet	cisco	172.20.105.63		
72.20.106.63_sshv1	sshvt	cisco	172.20.105.63		
72.20.106.63 sshw2	sshw2	cisco	172.20.106.63	*	
Add	Dek	ta 👹 Modi	v	Export	

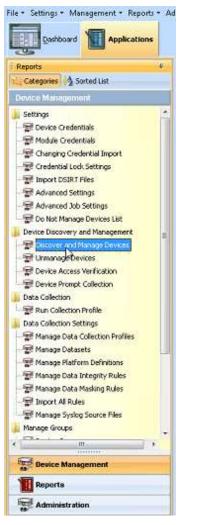
• An informational window indicates a successful import, click **OK**; an Edit Credentials window appears.

devices.	hat will be used fo	2000-000-000-000 0 -00	d inventory and other commun s changes need to be canceller		er and network	
Credential Name	Transport	User Name	1p Address			
172.21.55.17_telnet	teinet		172.21.55.17			
172.21.55.17_sshv1	sshv1		172.21.55.17		C100	
172.21.55.17_sshv2	sshv2		172.21.55.17			
172.21.55.17_telnet 172.21.55.17_sel+ 172.21.55.17_sel+ 172.21.55.17_sel+ 172.21.55.17_sel+	Credentials	cisco on the Device Crede	172.21.55.17 ntial Configuration Window	to save the credenti	ials.	_
172.21.55.17_str 172.21.55.17_str 172.21.55.17_str 172.21.55.17_str 172.21.55.17_str 172.20.106.63_te	Credentials	0.5055	Classification and the	to save the credenti	als.	_
172.21.55.17 الدو 172.21.55.17 172.21.55.17 جهر 172.21	Credentials Press OK c	0.5055	Classification and the	to save the credenti	als.	_
172.21.55.17 _st 172.21.55.17 _st 172.21.55.17 _st 172.21.55.17 _str 172.20.106.63_te 172.20.106.63_st 172.20.106.63_st/v2	Credentials Press OK c sshv2	on the Device Crede	ntial Configuration Window	to save the credenti	als.	11 17
172.21.55.17 ssł Edm 172.21.55.17 ssł 172.21.55.17 snr 172.21.55.17 snr 172.20.106.63 te 172.20.106.63 st	Credentials Press OK c sshw2 . teinet	on the Device Crede	ntial Configuration Window	to save the credenti	als.	_
172.21.55.17_set 172.21.55.17_set 172.21.55.17_set 172.21.55.17_set 172.21.55.17_set 172.20.106.63_se 172.20.106.63_se 172.20.106.63_setw2 172.20.106.63_tehet	Credentials Press OK c sshv2 . telnet . sshv1	on the Device Crede	ntial Configuration Window OC 172.20.106.63 172.20.106.63	to save the credenti	als.	_

• In the Edit Credentials window click OK, this saves the credentials

Discover and Manage Devices

This section describes the process for importing the Managed Devices data, after performing the collector upgrade:



 On the CSPC navigation menu choose Categories > Device Management > Settings > Discover and Manage Devices; the Discover and Manage Network Devices window appears, displaying th Select Discovery Methods pane.

147 Discover and Manage Network Devices	
Select Discovery Methods	
Select th methods	e at least one of the following network device discovery
2	Discover devices with known Ip Addresses.
8	Discover devices with protocols such as CDP, OSPF and ARP.
2	Discover devices by scanning/pinging range of Ip Addresses.
8	Rediscover the currently managed devices
Maxt >	Help Import Cancel

- Check the Discover devices with known IP Addresses check box.
- Click **Next**; the Discover devices with known IP Addresses pane appears.

J Discover and Manage Network Devices	
Discover devices with known Ip Addresses	
Enter the list of Ip Addresses for the known devices,	
IP Address/Host Name	
🛧 Add. 🛪 Remove 🥒 Update	
< Back Next >	Help

- The next step is to enter the IP Addresses into the IP Address/Host Name field.
- Open the exported Managed Devices data file, which was saved as CSV data in the Managed Devices export option secton.

	Home	Insert	Page Lilyo	ut Formulas	Dat
	Cut	Call	bri	- 11 - A	A" 1
	Copy -	в	/ U ·	188 - 1 0 - 1	
107	Format Pa	inter	-		100
-	board	9		ont	B
31	R x 1C		Jx	172.20.106.63	
图 :	ManagedDe	rvices			
A		A		B	
1	Ip Addres	s		Host Name	ē
2	175,38,39	6.43		Router-877	W
3	170.286.246	61/54		ts-c26	
4	(S) HE N	6.45		AP-1200	
5	AND LANS. IN	647		Site4_2950	LRE
б	OWNER ADDRESS OF	6.000		2950-Switch	h
7	175.00.00	6.046			295
8	10.36.24	6.128		TS-01202	
9	(R) (ARE N	6.96		RPATRI-DFI	M3500
10	AND LARSE IN	63(75)		WebVpn-2	811
11	OWNER AND ADDRESS OF	63		switch4	
12	AND DAME IN	6.76		Nani123-12	3
13	LAST THE R	6.35		2950_swite	h
14	CHIS JAKE IN	N. 1520		herbie-374	5-1
15	AND DARK IN	10.000		Cat-2970	
16	OWNER ADDRESS	6.26		Router-374	5
17	102 (108 1	6 (ARB)		R-1750	
18	LINE DARK IN	6.25		switch-E1	
19	CALL PROPERTY.	N. 1880		1751-∨	
20	(R) Look R	6.35		UC520	
21	170,08,08	6.8		1800_Serie	s_Rout
22	(R) (888.8	N JANE		CUE	
28	1 10 24 24	63		106LabGW-	TEST
24	112,386,338	67		switch-106	-7><""§
25	CALCUMPTER OF	6.03		cmd-1841-3	3
26	OWN DARK IN	1.148		uma-switch	1-3750
27	170 344 378	6.79		ems15454e	c
28	131.05.11	11.1354		UC520	
29	15.0433	6.1285		Switch	
30	175.25.13	6.620		3750-121-1	12
31	的原品	LA .		dfw-1800-1	-testir

• In the Excel spread sheet that contains all the exported managed devices data, copy all the IP Addresses that are located in the first column.

14 Discover and Manag	ge Network Devices	x
Discover devices with kr	nown Ip Addresses	_
Enter the list of 1p Addr	esses for the known devices.	
IP Address/Host Name		-
Add X Remove	∠ update	
45		
-		
	< Back Next > Card	×.

• Paste the spread sheet IP Addresses into the IP Address/Host Name field, then click Add.

tult Discover and Manage	Network Devices	
Discover devices with kno	wn Tp Addresses	
Enter the list of 1p Addres	ses for the known devices.	
IP Address/Host Name]
+ Add X Remove	🖉 Updata 🐘	
他 國家 國家 國家 同家 國家 同家 國家 同家 國家 同家 國家 同家 國家 同家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國家 國	D	
	< Back, Next >	Help Cancel

• The IP Addresses are added into the section below. From now on when you open the Discovery and Manage Devices window all the devices from the previous release will be identifed and ready for use.

Import Discovery Jobs

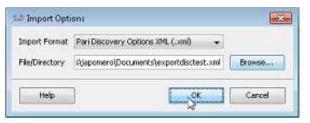
This section describes the process for importing Discovery Jobs, after performing the collector upgrade. The importing of Discovery Jobs is performed by using the Discovery and Manage Devices function.

	T Data Callection P		
Auguren 1 Storadian	Contraction in the second	A STORE AND A STOR	
a biogeneral	10-	1. Doorse set Manage Testande Testa	
argi	Name .	tailed Basinery Mohade Default	Coart
Device Credentials	Manus Ciletta Patie	An end of the second seco	
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 On the CSPC navigation menu choose Categories > Device Management > Settings > Discover and Manage Devices; the Discover and Manage Network Devices window appears, displaying the Select Discovery Methods pane.

Discover and Manage N	CONDUX PLEATERS :	53
elect Discovery Methods		
	Select the at least one of the following network device discovery methods.	
	Discover devices with known Ip Addresses.	
	Discover devices with protocols such as CDP, OSPF and ARP.	
	Discover devices by scenning/pinging range of Tp Addresses.	
	All the existing Discovery Options will be overwritten. Are you sure you want to import Discovery Options?	
	Next > Help Import	Cancel

• A warning message appears about overwriting all the existing Discovery Options ..., click Yes.



- Specify Pari Discovery ... for the export format.
- Click **Browse** and specify the location to save the export file.
- Click **OK** to perform the import.



• An informational message appears indicating that the import of the discovery settings was successful.

Discover and Manage	Network Devices	×
elect Discovery Methods		
	Select the at least one of the following network device discove methods.	ту
	Discover devices with known Ip Addresses.	
	Discover devices with protocols such as CDP, OSPF at	nd ARP.
	Discover devices by scanning/pinging range of Tp Add	resses.
	Rediscover the currently managed devices	
	Merci, >	Help Import Cancel

- In the Select Discovery Methods pane check the **Discover devices with known IP Addresses** check box.
- Click **Next**; the Discover devices with known IP Addresses pane appears.

Lift Discover and Manage Devices		
Discover devices with known Ip Addresses		
Enter the list of Ip Addresses for the known devices.		
IP Address/Host Name		
🔶 Add 🛪 Remove 🥒 Update		
172.21.55.17 172.20.106.63 172.18.140.154 172.20.106.62 172.21.55.15 172.21.55.45 192.168.96.45 172.25.121.132 192.160.96.7 172.26.183.125 192.160.96.100 172.18.140.130 172.21.55.15 172.20.106.140 172.25.121.142 172.25.121.142 172.25.121.141 172.25.121.140 172.18.140.150 172.18.140.150 172.21.57.140 172.26.183.149 172.26.183.149 172.26.183.140.125		1
< Back Next >	Help	

• The IP Addresses that were exported in the Discovery Jobs export process appear in the pane.

Software Image Upgrades

Software image upgrades allows small code updates to be applied without having to redeploy a whole image on an appliance. This section covers the following areas that are related to software image upgrades:

- LCM Agent Manager
- Appliance Interface
- Software Image Build Setup
- Perform a Patch Upgrade

LCM Agent Manager

The Life Cycle Management (LCM) Agent Manager is located in the Cisco backend and supports different types of services (SNTC, PSS, Smart Call Home, and RMS). The interaction with the LCM Agent Manager is done through a CLI. The LCM Agent Manager manages the versioning of the software components that are going to be added to the appliance. So instead of having to redeploy a whole image when a fix for a problem is available, the LCM Agent Manager provides support for service pack updates, which is a small code update that fixes a specific problem. The LCM Agent Manager also provides support for release and rules packages, and data profiles.

The software packages are loaded into a production data repository called Intelligent Download Application (IDA), which allows any Cisco device to be enabled for patch support. IDA also provides an infrastructure that supports automatic updates. IDA also maintains a list of 'notorious IP addresses'. If an appliance was trying to download software from a device that had a 'notorious IP address', then that download would be blocked by IDA.

Appliance Interface

There are different appliance interfaces that are used in the software image upgrade process. There is a CLI that the partner admin can use, that is used for various show and configure commands that enable on-demand and auto-update image upgrades.

There is also a browser based graphical user interface (GUI), which is also referred to as a 'thin-client'. The browser thin-client replaces the previous CSPC client interface, which also referred to as a 'thick-client'. The browser GUI provides access to the CSPC administrator console that includes a tab for user registration. The browser user interface uses a secure HTTPS connection that utilizes TCP port 443.

The appliance also has an IDA interface that connects the appliance to the IDA software image server. This interface is where the appliance gets access to all the different software images that are used to update key areas of the deployment image.

Partner admin	CLI	Smart Services	HTTPS (TCP/443))
	HTTPS with poling (TCP/443)	Appliance (CSPC/ OPSXML/ SCH_TPGW)		ware ages
		ACLS		
1	Appliance CM Agent Manager			
Cisco	Back End			

Software Image Build Setup

The software image build is made of several software components that provide different functions for the appliance:

- Package-type indicates the type of package (for example, service pack, rules, data profile).
- Version represents the version the package is supporting (in example, service pack sp-2.0.0-0 for a 64 bit Linux OS).
- Component identifies what functional component is being supported (in example, DPA and its version 1.1 and the CSPC base level 2.2.0.1 that it runs on).
- The components listed below are combined into the JEOS (Just Enough Operating System) package:
 - Serviceability function and its version.
 - o ConscoTgw is the tail end gateway that provides the connectivity connection.
 - \circ $\;$ Jetty is the webserver component that provides the thin-client web-browser interface.
 - \circ $\;$ Adminshell component represents the LCM Agent function.
 - o Hardened CentOS is the 64 bit operating system.

```
Package-type : ServicePack
    Version : sp-2.0.0-0-0-lnx64
    Component : CSPC DPA Add-on
    Version : 1.1
    Component : CSPC Base
    Version : 2.2.0.1
Package-type : JeOS
Version
       : jeos-2.0.0-0-lnx64
    Component : Serviceability
    Version : 1.0.9
    Component : ConcsoTgw
    Version : 1.4.2
    Component : Jetty
    Version : 7.1.0
    Component : AdminShell
    Version : 0.7
    Component : Hardened CentOS
    Version : 6.3 patch #0
```

Perform a Patch Upgrade

There are two ways to download a software image and perform a patch upgrade:

- <u>On-Demand Option</u> user indicates that they want to download the software image now.
- <u>Auto-Update Option</u> user configures a policy that specifies a certain time frame when they want the updates checked, downloaded and possibly applied.

On-Demand Option

The On-demand option uses the following commands in the software image download process:

- show server-connection indicates whether there is a connection to the software image server.
- conf server-connection enable | disable enables or disables the connection to the software image server.
- check update shows what software images are available for download
- **download** version_number downloads the selected collector software image.
- show download shows what software images have been downloaded.
- **apply** *version_number* installs the specified downloaded software image.
- **show apply –** shows which downloaded software images have been installed and what their status is.

Verify the Server Connection

Before downloading a software image you must first verify that you have a connection to the server that provides the software images. To verify the connection to the image server, perform the following steps:

```
admin# sh server-connection
Connection with server for Software Updates is currently disabled.
admin#
admin#
admin# conf server-connection enable
This operation will enable connection with server for Software Updates.
   CCO Id : alele
   Password :
Would you like to continue (y|n)? y
Operation succeeded.
admin#
admin# sh server-connection
Connection with server for Software Updates is currently enabled.
                       : alele
   CCO Id
                       : CSP0001004320
   Appliance ID
                       : 09 May 2013 19:52:22 UTC
    Enabled date
admin#
```

- Enter the show server-connection command; the response indicates whether your server connection is enabled or not.
- If your server connection is not enabled, then enter conf server-connection enable.
- You will be prompted to enter your CCO Id username and password.

٩,

Note The CCO id and password prompt is to comply with export regulations. The CCO Id /password is the best way to ensure that restricted countries do not get access to the software images. The IDA server uses the CCO Id authentication to block attempted image downloads from any restricted country.

Answer the 'Would you like to continue' prompt with a 'y' to continue.

Check Updates

Once the server connection is determined to be available, then you can check to see if there are any updates available. Enter the **check update** command to see if any updates are currently available. If there are then a list of the available updates will be displayed.

Download the Software Image

When there are available software images to be downloaded then perform the following steps:

```
admin# download sp-3.0.1-0-0-lnx64
Requested package has been downloaded.
Do you want to download it again [y|n]? y
Connecting to Software Download Server using User Id 'alele' ...
In order to download software, please indicate that you have read and agree
to be bound by the Cisco End User License Agreement which can be viewed at
http://www.cisco.com/en/US/docs/general/warranty/English/EU1KEN_.html
Accept License Agreement (y|n)? y
```

- Enter the download version_number command, where version_number represents the software image version number.
- You will be prompted with a EULA; enter 'y' to continue the download.



• Enter the show download command to see what software images have been downloaded and what their associated status is.

Apply the Software Image

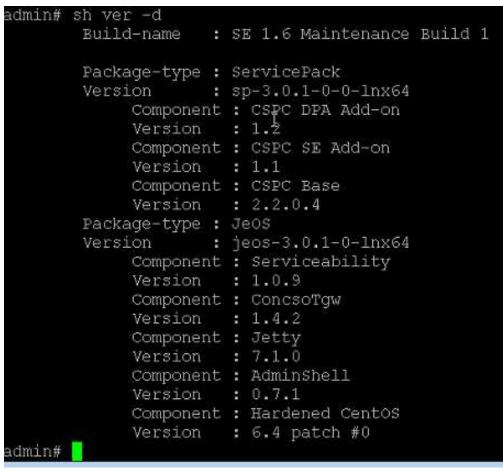
After the software image has been downloaded, then apply the image to the appliance, by performing the following steps:

```
admin#
admin# apply sp-3.0.1-0-0-lnx64
Requested package has been applied.
Do you want to apply it again [y|n]? y
After installation of package, affected services will be restarted.
Do you want to continue [y|n]? y
Started apply of package.
Depending on contents of the package, this may take some time.
admin#
```

• Enter apply version_number to install the specified software image.

admin# admin# sh apply	
Version Number	: sp-3.0.1-0-0-lnx64
Status	: Apply-failed
Start Time	: May/09/2013 19:56:16
End Time	: May/09/2013 19:56:17
Reason	: Installation of package "sp-3.0.1-0-0-1nx64.zip" failed

• Enter **show apply** to find out the status of a previous apply.



•

Note Use **show version –d** to see details of the current build and verify info from the show apply command.

Auto-Update Option

This option lets the user configure a policy that specifies certain parameters that identify when they want the updates checked and downloaded and for what types of software images.

The conf auto command has several parameters that can be used in the configuration of the auto-update.

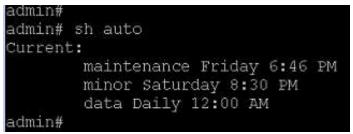
The parameters can be any of the following items:

- A specific day / time (by itself)
- Minor update, with/without a specified time
- Maintenance with/without a specified time
- Patch with/without a specified time

An example of some of these autoupdate options are shown below:



Note The –W option will perform a download, but not apply the software image to the appliance.



• The show auto command displays the current auto-update settings.

Accessing the IDA Software Image Server

On the appliance, when you enter the download request command, you are requesting a specific software image from the IDA Software Image Server.

This IDA server provides the CSPC server appliance access to different software images that are used to update key areas of the deployment image. The IDA server provides Cisco devices the ability to perform patch upgrades, instead of having to redeploy the whole image in order to obtain a software update.

When you access the IDA server the first time you are required to provide your CCO Id login credentials and sign an End User License Agreement (EULA). The CCO Id login and EULA is an export verification requirement that validates the user and ensures that software images are not being downloaded to countries listed in the restricted list.

When you access the IDA Software Image Server the first time, you will see the following message and link:

CCO Id is not authorized to download encrypted software. Please register for this service using below URL and try again.

http://tools.cisco.com/legal/k9/controller/do/k9Check.x?eind=Y

Click the above URL; the CCO Id window appears

Log In	
Choose language of Login: English	
Log into an Existing Account	
User Name	
skeeler	
Password	
Log In	
Forgot your user ID and/or passw ord?	

• Enter your CCO login credentials; the EULA window appears.

- 1- E -	
CISCO	
Click Accept - Cisca Systems	
lestructions	
To apply for eligibility to download strong encryption software images	
1. Ensure the address listed in your <u>Cisco corn User Photoe</u> is cornect and complete.	
Read each of the conditions below carefully prior to selecting your asswer. Type your ful name in the field provided	
4. Submit this form.	
Conditions	
 Cisco software inspes are subject to United States (U.S.) national security. foreign policy, anti-terrorism laws, export regulations and other national local laws 	-
Eagned to secure Disco software images in a manner that prevents unadmotted access or transfer. Certain persons, countries or entities may require a U.S. export license in order to obtain restricted Cisco images. Detailed information regarding con U.S. use, export, se-exports, and transfer laws may be found at:	

• Read each EULA condition, then scroll to the bottom of the EULA.

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8 1992-2009 Clica Systems, Nr. All April reserved. <u>News II Conditions (Privacy Statement | Conte Policy</u>) Trademeter of Cook Typhene Policy

• Verify the user details information, then click **Accept**; you are provided access to the requested download software image.

Inventory Upload

There are several different processes that are required to perform an inventory upload, those processes are:

- Discover the Devices
- Create and Manage Datasets
- Manage Data Collection Profiles
- Run Collection Profile and Upload Data

Discover the Devices

This process helps us find what devices are available in the customers managed network and then manage them. There are several ways to find those devices:

- Add devices manually.
- Use a seed file.
- Use the discovery process.

To use a seed file refer to the information contained in the following documents:

Seedfile Maintenance Guide

http://www.cisco.com/web/partners/services/programs/collaborative/downloads/services_seedfile_maintanance_us er_guide.pdf

Installed Base Management & Alert Deployment Guide

 $http://www.cisco.com/web/partners/services/programs/collaborative/downloads/services_pss_install_base_management_and_alerts_deployment_guide.pdf$

To discover the devices perform the following steps:

 On the browser menu choose Management > Discover and Manage Devices; the Discover and Manage Network Devices window appears.

Discover and Manage Network Devices					
Select Discovery Methods					
Select the at least one of the following network device discovery methods.					
Discover devices with known Ip Addresses.					
Discover devices with protocols such as CDP, OSPF and ARP.					
Discover devices by scanning/pinging range of Ip Addresses.					
Rediscover the currently managed devices					
Next > Import Cancel					

• Check the check box for the method you want to use for discovery, then click **Next**; the pane associated to the method you selected appears.

 Discover and Manag 	e Network Devices	
Discover devices with known	n Ip Addresses	
Enter the list of Ip Addresse	s for the known devices.	
IP Address/Host Name	11.36 Jak 24 🚺	
2 + Add X Retiove 2	Update	
	< Back Next >	Cancel

- Enter the IP Addresses that you want discovered in your network. Place the IP Address in the IP Address/Host Name field (1) then click Add, (2) or press the enter key; the IP Address is added to the IP Address list.
- Click **Next**; the Discovery Schedule Options pane appears.

Management Protocol snm	mpv2c 🔽 🚺	
Device Access Verification Op	otions	-
Run Device Access Verific	cation on all Discovered Devices for the selected Protocols.	
🗌 teinet 🗌 sshv1	sshv2 snmpv1 snmpv2c snmpv3 http ht	ps
lob Schedule Options		
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Start Discovery Now 3		
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- Specify the type Management Protocol O you want to use (for example snmpv2c) for the discovery process; this is a required field as noted by the red asterisk *.
- If you want to verify if the discovered devices have specific protocols enabled, then perform the following steps:
 - In the Device Access Verifications Options area check the Run Device Access Verifications ...
 check box.
 - <u>Select the associated check box for each protocol you want verified (for example telnet, sshv1, sshv2, etc.) on the discovered devices.</u>
- You have two options for scheduling a discovery in the Job Schedule Options area: $m \Box$
 - <u>Click the Start Discovery Now radio button</u>.
 - <u>Click the Schedule Discovery radio button</u>, <u>U</u> and then specify the time frame parameters you want in the Schedule Discovery area.
- Click **Next**; there are different responses to this depending on the previous option that was selected:
- If a Start Discovery Now option was selected then the discovery process starts immediately and presents the results of the discovery.

			Managed De	vices: 5 0	Failed Devices: 0
No.	Device	Host Name	Device Type	Status	Message
1	10702-2003 14886-143	PATRICK	FSM73525-000	Discovered	Device already in managed state.
2	1170.001100.29	(SHWEENER	SRW224P	Discovered	Device already in managed state.
3	1172.000 MMA. (16	M5-(25/8	WS-CE520	Discovered	Device already in managed state.
4	31702-2003 10080-114	(Sweet)	WS-C3750E	Discovered	Device already in managed state.
5	1072 389 1888. 185	WS-CHUR	WS-C3560E	Discovered	Device already in managed state.

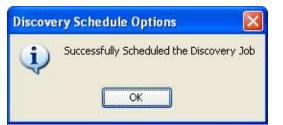
Note The discovery options can be saved and used later by clicking the Export Settings... button.

The above report can be exported by clicking the **Export Report...** button.⁽²⁾ The report can be saved in a variety of formats that are noted in the Export Options drop-down list.

🖦 Export Opt	ions	
Export Format	Web Page, complete (.html)	
Directory	Web Page, complete (.html) Adobe PDF Microsoft Word Document (.doc)	Browse
Help	CSV (Comma delimited) Text (Tab delimited)	Cancel

Specify what export format and browse to the folder you want the report exported. You can view the results at a later time at the saved folder location.

 If a scheduled discovery was requested then a status message appears and the discovery is run later at the specified time.



Create and Manage Datasets

A dataset is the output of a particular command or set of commands issued by the CSP-C server. The commands issued by the CSP-C server are sent to a specific device and the device output from those commands is referred to as a dataset.

The creation of the dataset involves specifying what type mechanism to use to collect the dataset. Some of the mechanisms that can be used are:

- Output of a command (CLI)
- SNMP request (SNMP)
- XML output (SOAP/XML)

Along with specifying one of the above mechanisms a platform must also be selected. A platform (that is a router or switch platform) must be specified for the selected mechanism to run on. The platform identifies what type router or switch they have and indicates what commands can be run on those devices.

To create a dataset perform the following steps:

On the browser menu choose Applications tab > Device Management > Data Collection Settings > Manage Datasets; the CSP-C browser displays the Manage Datasets pane.

Settings • Management • Reports • Adv					cisco
Reports P	Manage Platform Definitions 🗙 🐨 Manage Dat	a Masking Rules 🗙 🙀 Mar	age Data Integrity Rules	🚿 🗟 Manage Dataset	s (1) ↔ II
Categories Sorted List	C Q-	Add Dataset.	DALaberta O Pressore	Dicenic) 🖸	
Device Management	Dataset Name	Collection Type	Applicable Platforms	Category	Create
😴 Unmanage Devices	ActiveIPPhone	SOAP XML Requests	[Custom]	SOAP	Admin123
To Device Access Verification	AIRESPACE-SWITCHING-MIB SCALARS	SNMP	[Custom]	SNMP Scalars	Admin123
Data Collection	AIRESPACE-WIRELESS-MIB_bsnAP	SNMP	[Custom]		ALC: NOT THE OWNER OF
🐨 Run Collection Profile	AIRESPACE-WIRELESS-MIB bsnMobileStation	SNMP	[Custom]	AIRESPACE-WIRELESS-MIB	Admin123
Data Collection Settings	BASIS-GENERIC-MIB SCALARS	SNMP	[Custom]	SNMP Scalars	Admin123
😴 Manage Data Collection Profiles	BASIS CARD GENERIC 1.3.6.1.4.1.351.110.2.1	SNMP	[Custom]	BASIS CARD GENERIC	Admin123
🐨 Manage Datasets	BASIS SHELF shelf	SNMP	[Custom]	BASIS SHELF	Admin123
The Manage Platform Definitions	CALISTA-DPA-MIB_SCALARS	SNMP	[Custom]	SNMP Scalars	Admin123
🐨 Manage Data Integrity Rules 🗧	ceAssetSeriaNumber	SNMP	[Custom]	Misc SNMP Tables	Admin123
🐨 Manage Data Masking Rules	ceAssetSoftwareID	SMMP	[Custom]	Misc SNMP Tables	Admin123
Manage Groups	CHASSISMGREXT-MIB_SCALARS	SNMP	[Custom]	SNMP Scalars	Admin123
Pauline Ground	CHASSISMGREXT-MI8_apChassisMgrExtModule	SNMP	[Custom]	CHASSISMGREXT-MIB	Admin123
	CHASSISMGREXT-MIB_apChassisMgrExtModule_1	SNMP	[Custom]	CHASSISMGREXT-MIB	Admin123
Device Management	CISCO-CCM-MIB ccm	SNMP	[Custom]	CISCO-CCM-MIB	Admin123
	CISCO-CCM-MIB_comGroup	SNMP	[Custom]	CISCO-CCM-MIB	Admin123
Reports	CISCO-CCM-MIB_ccmPhone	SNMP	[Custom]	CISCO-CCM-MIB	Admin123
Administration	CISCO-CCM-MIB_ccmProduct	SNMP	[Custom]	CISCO-CCM-MIB	Admin123
	CITEGO COM MID. um Duning	SNMP	[Custom]	CISCO-CCM-MIB	Admin123
ž	CISCO CDD MIR adaCada	CAMO	Frankam 1	CICCO COD MID	Admint 72

To create a new dataset, click Add Dataset;² the Dataset Editor – Create a new Dataset window appears.

— Dataset Edit	or - Create a new Dat	iset		
Dataset Deta	S Dataset Platforms			
Dataset Detail				
* Title	UAT-Demo			
* Identifier	UATDemo			Generate
* Category	Generic Commands			×
Description				
			0	K Cancel

• Fill in the required information, then click the **Dataset Platforms** tab; the Dataset Platforms pane appears.

N

Note The Identifier must start with an underscore **I** at the beginning of the identifier name. Use the Generate button to automatically generate a valid identifier name from the name in the Title field (that is, UAT-Demo).

Dataset Editor - Cr Dataset Details Dat	eate a new Dataset aset Platforms		
Select Data Collection Dataset Type	Гуре	0	
Select Platform and Co Platform	lection Parameters Command	Timeout	Ēt
	🔂 Add 🕗	🔵 Delete 🖉 Modify	 t
		ОК	Cancel

- Need to specify the following items:
 - o Dataset type
 - Click the Dataset Type drop-down list ① and select a dataset (that is, CLI).
 - Click the Add button ⁽²⁾ Dataset Entry Details window appears for specifying the platform.
 - Platform and collection parameters -

🖦 Dataset Entry D	Details 🛛 🔀
* Select Platform	Cisco IOS Devices
* Command String	show version
Sub Mode	~
Maximum Lines	
Integrity Rule	✓
Masking Rule	✓
Dataset Timeout	
	OK Cancel

- Enter the required info.
- Click OK; the platform is added to the platform list

🚟 Dataset Editor - UAT-De	mo		×
Dataset Details Dataset P	latforms		
-Select Data Collection Type-			
Dataset Type CLI	\checkmark		
Select Platform and Collection	Parameters]
Platform	Command	Timeout	
Cisco IOS Devices	show version		
			<u> </u>
			<u></u> +
	Add Delete	🖉 Modify	
		ОК	Cancel

• Click **OK**; a success message window appears.



Click OK; the UAT_Demo dataset name 3 is added to the list

Settings - Management - Reports - Ad Dashboard Dashboard Applications					cisco
Reports P	Manage Platform Definitions 🗙 🐨 Manage	Data Masking Rules 🗴 😭 M	fanage Data Integrity Rule	😥 🐺 Manage Dal	asets × 4 + 1
Categories 🔥 Sorted List	e a-	Add Dataset 🎖 Moo	lify Dataset 🔘 Remove	Dataset	
Device Management	Dataset Name	Collection Type	Applicable Platforms	Category	Created
Data Collection Settings	STRATACOM-MIB_SCALARS	SNMP	[Custom]	SNMP Scalars	Admin123
Manage Datasets	SYSAPPL-MI8_sysApplInstallEimt	SNMP	[Custom]	SYSAPPL-MIB	Admin123
	SYSAPPL-MI8_sysApplInstallPkg	SNMP	[Custom]	SYSAPPL-MIB	Admin123
>	SYSAPPL-MIB_sysAppIRun	SNMP	[Custom]	SYSAPPL-MIB	Admin123
Device Management	TOPSPIN-MIB_SCALARS	SNMP	[Custom]	SNMP Scalars	Admin123
a bottee management	TOPSPIN-MIB_1.3.6.1.4.1.6203.1.2.3.1.1	SNMP	[Custom]	TOPSPIN-MIB	Admin123
Reports	TOPSPIN-MIB_tsDev	SNMP	[Custom]	TOPSPIN-MIB	Admin123
Administration	TOPSPIN-MIB_tsDevCard	SNMP	[Custom]	TOPSPIN-MIB	Admin123
A Administration	version	aı	[Custom]	Generic Commands	Admin123
3	UAT-Demo 3	CLI	[105] (4)	Generic Commands	Admin123

Click OK; the dataset is added to the list and is noted having the Generic Commands category.

Note Remember both the dataset name and the category type. This info will be needed later during the Add Collection Profile process.

The next step in the inventory process is to manage the data collection profiles.

Data Collection Profiles

A collection profile defines what data to collect from the devices, from what type devices the data needs to be collected, and how often the data needs to be collected. There are two different profile categories covered:

- Add Collection Profile
- Manage Data Collection Profiles

Add Collection Profile

To add a data collection profile perform the following steps:

• On the menu choose Applications tab > Manage Data Collection Profiles > Add Collection Profiles, the CSP-C browser displays the Data Collection Profiles pane.



Note This is where existing devices get associated to the commands that are noted in the various datasets.

- Cisco CSP Collector - Admin123@	171.	69.37.90				
File • Settings • Management • Reports •	1	listration + Help +				cisco
: Reports	₽	Manage Data Masking Ri	ules 🗙 🐨 Mani	ige Data Integrity Rules 兴	Manage Datasets 👋 🙀	Data Collection Profiles 1
Categories A Sorted List		C Q-	A constant	Add Collection Profile	2	🔘 Ramana Collectors Profile 🔛
Device Management		Name	System Define	ed Scheduled	Device Selectio	on Dataset Count
Data Collection Profile	^	CNC Collection Profile	E)	All Devices Select	cted 15
Manage Data Collection Profiles	-					
Manage Platform Definitions	>					
Device Management						
Reports						
Administration						
	» *					
	_				20.1	41M of 44M

• To create a new Collection Profile, click **Add Collection Profile**...;⁽²⁾ the Add Collection Profile window appears, displaying the Select Devices tab.

Add Collection Profile	
Select Devices Select Datasets Profile Details Select Devices for the Collection Profile O Include all the managed devices 1	
 Include only the following selected devices ② Managed Devices: ☆ 산 문 : 중 준 	Selected Devices/Groups:
AccessPoints (0) AccessPoin	
- ∮ ♥ F5M73525-Netgear - ∮ ♥ SRW224P 	OK Cancel

- There are two options for selecting devices for a collection profile:
 - Include all the managed devices. 0
 - Include only those devices that you select; this option enables the selections area.

- The second option that lets you select what devices will be associated to a dataset, and works in the following manner:
 - o Select the devices you want in the Selected Devices/Groups pane.

🖦 Add Collection Profile	
Select Devices Select Datasets Profile Details	
Select Devices Select Devices for the Collection Profile Include all the managed devices Include only the following selected devices Managed Devices: Select Devices/Groups: Select Devices (S) Select Devices (S) Select Devices (S) Select Devices (S) Selected Devices Selected Devices Selected Devices Selected Devices (S) Selected Devices (S) Selected Devices (Soups:	
ОК	Cancel

Note You can select multiple items and the items can be a group of devices 0 or individual devices.

After selecting the devices or groups, click the right pointing arrow;³ the selected devices and groups get moved to the Selected Devices/Groups pane.

Min Add Collection Profile		×
Select Devices Select Datasets Profile Deta		
Select Devices Select Datasets Profile Detection Select Devices for the Collection Profile Include all the managed devices Include all the managed devices Include only the following selected devices Managed Devices: Imaged Devices: Imaged Devices: Im	Selected Devices/Groups: SRW224P SWitch WS-CE520-24LC-K9	
	OK Cancel]

- The selected devices are now also in the Selected Devices/Groups pane; these devices represent the devices that are going to be associated to a set of commands in the next tab.
- Click the Select Datasets tab.

Select Devices Select Datasets Profile Deta		
‡Expand All 만‡Collapse All Select All Unselect	All	
Cate Dataset Name	Туре	Applicable Platforms
Generic Commands		
show configuration failed startup	CLI	[Custom]
showModule 1	CLI	[Custom]
ShowModule 10	CLI	[Custom]
ShowModule 11	CLI	[Custom]
ShowModule 2	CLI	[Custom]
🔲 showModule 3	CLI	[Custom]
📃 showModule 4	CLI	[Custom]
🔲 showModule 5	CLI	[Custom]
🔲 showModule 6	CLI	[Custom]
showModule 7	CLI	[Custom]
ShowModule 8	CLI	[Custom]
showModule 9	CLI	[Custom]
version	CLI	[Custom]
UAT-Demo	CLI	[105]
HOST-RESOURCES-MIB		
HOST-RESOURCES-MIB_hrDevice	SNMP	[Custom]
HOST-RESOURCES-MIB_hrDiskStorageCap	acity SNMP	[Custom]
HOST-RESOURCES-MIB_hrStorage	SNMP	[Custom]

- Select the dataset names you want to associate to the devices. For this example look for the category name Generic Commands, which is where the UAT-Demo dataset name we created earlier is located.
- Check the **UAT-Demo** check box.

٩,

- **Note** The combination of Generic Commands category name with UAT-Demo dataset was performed during the add dataset section.
- Click the **Profile Details** tab, the Profile Details tab appears.

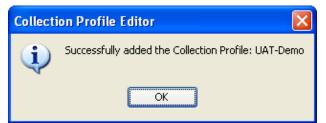
Modify Collection Prof	ile 🛛 🗙
Select Devices Select Da	atasets Profile Details
Collection Profile Details	
* Profile Title	UAT-Demo 1
* Identifier	_UATDemo Generate
Description	
Profile Priority	Medium 💙
Preserve Run Count	5
Use Fallback Credentials	
Collection Profile Schedule	
Schedule Periodic Collecti	on
Schedule start Date/Time	October 15, 2010 🗸 07:27:26PM 📚 Now 👻
Repeat schedule	
Repeat every	minutes
Schedule end Date/Time	✓ 07:27:26PM ◆
Resume this job automa	atically if its interrupted due to a CSPC Server restart
Export Options	
2 🗹 Export upon successful e	xecution of the Collection Profile
* Export Format	Cisco VSEM (.zip)
* File Name Prefix	UAT-Demo
Upload to Remote Server	
L	
	OK Cancel

- Enter the title in the Profile Title field, and then click the **Generate** button;^① the browser creates the Identifier name **I** automatically.
- To send the inventory data to the Cisco backend perform the following steps:
 - In the Export Options area (at the bottom), check the Export upon successful execution... check box.
 - Select a format from the Export Format drop-down list.

Export Options		
Export upon successful ex	ecution of the Collection Profile	
* Export Format	Cisco Network Collector (.zip)	×
* File Name Prefix	caewallab	
Upload to Remote Server	2	

Important The default that comes up for the export options (Cisco VSEM (.zip)) should be changed to **Cisco Network Collector (.zip)** when uploading to the Cisco backend.

- o Enter a name in the File Name Prefix field (that is, UAT-Demo).
- Check the Upload to Remote Server check box.
- Click OK; a Collection Profile Editor window appears with a success message.



Click OK; the Data Collection Profiles pane appears with the new data collection profile ¹/₁ added to the list.

e • Settings • Management • Reports • Add	nalisuradon + rrep +					cisco
Reports P	Manage Data Masking Rules	× 🚼 Manage	e Data Integrity Rules 🗙	🐨 Manage Datasets 💥	😨 Data Collectio	n Profiles 🗙 🕴 🗉
Categories 🐴 Sorted List	C Q-		Add Collection Profile.	谢 Peats Caledon Pro	In	ection Profile
Device Management	Name UAT-Demo 1 CNC Collection Profile	System Defined		Device Sel 3 device(s), All Devices :	1 group(s) Sele	ataset Count 15
Administration			Ŧ			

The next step in the process is to run an inventory collection to collect the data from the specified commands.

Manage Data Collection Profiles

To manage the data collection profiles that have already been added, perform the following steps:

On the menu choose Applications tab > Manage Data Collection Profiles the CSP-C browser displays the Data Collection Profiles pane.

Lat Cisco CSP Collector - Admin123@17119.39	and a state of the	_		
File + Settings + Management + Reports + A	dminutration * Help *			
Reports #	Data Collection Profiles ×	1	3	
Categories A Sorted Lat	C 9-	and the second set and the second second	CONTRACTOR OF A DESCRIPTION OF A DESCRIP	Colorano Caleston Profile 😝 Inport Colorton Profile from Zp File
Settings Settings Settings Module Credentials Settings Thomaging Credential Support Settings Thomaging Credential Managing Credential Support Settings Thomaging Credential Managing Credential Support Settings Device Access Werksation Settings Device Access Werksation Settings Device Access Werksation Settings Device Access Werksation Device Access Werksation Findling Device Access Werksation Settings Device Access Werksation Dev	Name Mraman Collector Profile 2 Defa/L_CP DRACP	Lock Status Sourced Childed Sourced	Stretuled O O	Device Selection 1 device(v) Selected 1 device(v) Selected 1 device(v) Selected

The Data Collection Profiles tab^① contains a Minimum Collector Profile. You can modify the Minimum Collector Profile by selecting the Minimum Collector Profile entry,^② and then clicking Modify Collection Profile.^③

elect Devices Select Datasets P	rofile Details	
Collection Profile Details		
* Profile Title:	Default_CP	
* Identifier:	_Default_CP	
Description:	PSS Default Collection Profile, Colle all data elements.	cts all devices and
Profile Priority:	Međum	×
Preserve Run Count:	5	*
Service Name:	partner_support_service	
Use Falback Credentials:		
Run Discovery Before Collection:	2	
Run Prompt Discovery Before Collection:	E	
Run DAV Before Collection:		
Disable Collection Interval:	E	
		Advanced Options
Collection Profile Schedule		
Schedule Periodic Collection		

The Modify Collection Profile panel lets you perform the same profile functions as noted in Profile Details tab of the Add Collection Profile section:

- Provide collection profile details.
- Set profile running parameters.
- Set a collection schedule for the Collection to run periodically.
- Set export options.
- Important Do NOT change the service name (in example, partner_support_service) that is in the service name field. The field is allowed to be modified; however, if you change the name to something else, when inventory data gets sent to the Cisco backend the data repository will not recognize the different service name and the data will not get routed correctly.

Run Collection Profile and Upload Data

This part of the process collects the data from the devices in the customer network.

To create a dataset perform the following steps:

• On the browser menu choose **Applications tab > Data collection > Run Collection Profile**; the Run Collection Profile window appears.

- Run Collection	Profile			
Select Collection Prof	ile			
Name	System Defined	Scheduled	Device Selection	Dataset Count
UAT-Demo	8	×	3 device(s),1 group(s) Sel	1
CNC Collection Pr	•	8	All Devices Selected	159
		d >		Cancel

- Select the collection profile you want to run (that is, UAT-Demo).
- Click Next, the Data Collection Status area appears.

Run Collection Profile	×
Data Collection Status	_
Click on 'Start' button to execute the selected Collection Profile.	
No Ip Address Host Name Message	
< Back Export Report Close	

• Click **Start**; the data collection process is started.

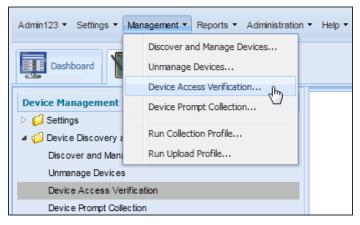
lick on 'Start' button to execute the selected Collection Profile. Start	
Start	
Selected Devices: 0 Selected Devices: 3	
No Ip Address Host Name Message	
I Inventoried Inventoried	172.20.106.16
2 Inventoried Inventoried	172.20.086.24
3 Inventoried Inventoried	172.20.006.05

- The details of the data collection are filled in. A summary is above 🖬 and the details are below.
- The above report can be exported by clicking the **Export Report**... button. See the Export Report section for more details.
- Click Close.

With the collection of the data, it is sent to the Cisco backend, if the Upload to Remote Server check box was previously selected.

Data Access Verification

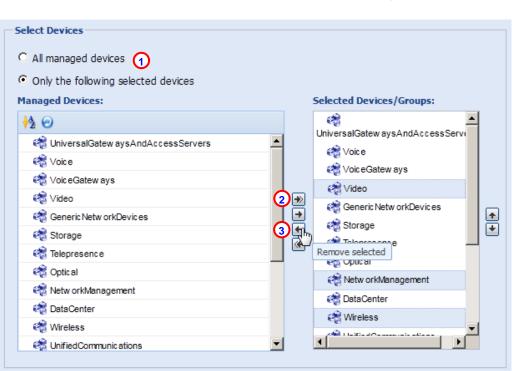
User needs to run Data Access Verification (DAV) once after uploading the certificate / license file in to the CSPC server appliance. It is good to run DAV before running collection profiles. To run DAV, perform the following steps:



• On the CSPC server appliance menu choose Management > Data Access Verification.

Admin123 • Settings • Management • Reports • Administration • Help •				
Dashboard Applications Device Management	Device Access Verification Select Devices for which you want to verify the access.	×		
 Settings Device Discovery and Management Discover and Manage Devices Unmanage Devices Device Access Verification 	Select Devices			
Device Prompt Collection Collection Device Prompt Collection Device Prompt Collection Device Prompt Collection Device Prompt Promotection Device Promotection	Managed Devices:	Selected Devices/Groups: * * • <		
	< Previo	us Next > Help Cancel		

- Or on the navigation pane select Applications > Device Discovery and Management > Data Access
 Verification; the Data Access Verification pane appears.
- In the Select Devices section select one of the following options:
 - o Select All managed devices radio button, which verifies all the devices known to the appliance.
 - Select Only the following selected devices radio button.
 - In the Managed Devices pane, select which specific devices you want verified and click the arrow buttons to move the selected devices to the Selected Devices/Groups pane.



Note

Selecting the **All managed devices O** radio button or the **Madd All** button, **O** performs the same initial function; all the devices are selected for verification. One key difference for the Add all button is that the Add All function copies all the devices over to the Selected Devices/Groups pane, where you have the ability to further refine the list by selecting those few devices that you may not want in the list.

The scenario where the Add All button is very helpful is when you want most of, but not all, the managed devices verified. Simply click the **Add All** button,⁽²⁾ then once all the devices are copied over to the Selected Devices/Groups pane, select those few devices you don't want in the list and click the **Remove Selected** button;⁽³⁾ those devices are removed from the Selected Devices/Groups pane and you can now proceed with the Data Access Verification.

- *Tip* You can select non-contiguous devices (items not in contiguous sequence wih each other) by selecting the first item with your mouse, then pressing the **Ctrl** key and select the remaining items you want in the list (see above graphic). To select contiguous items in a list, with your mouse select the first item in the list, press the shift key, then select the last item in the list. All the items between and including the first and last selected items are now selected in the list.
- After the devices have been selected, click Next; the Data Access Verification Schedule Options pane appears.

e Access Verificati				
vice Access ven	ication Schedule Options			
Select Protocols F	or Device Access Verification			
🔽 telnet	Sshv1	☑ sshv2		
▼ snmpv1	✓ snmpv2c	🔽 snmpv3	3	
🗹 http	M https	🗹 wmi		
Optimize Device	timeouts on successfull verification			
Advanced Options				
Job Details				
* Job Name:	Building 4 DAV file			
Job Description:				
Job Schedule Opti	DNS			
Start Device A	cess Verification Now			
O Schedule Devi	e Access Verification			
No schedule co	nfigured			
	0			

- Fill in the respective fields as needed; there are only two required fields:
 - Select at least one protocol for Data Access Verification section.
 - Provide a name in the Job Name: field, which is preceded with the * red asterisk.
- After all the fields are filled in, then click **Finish**.

De	evice Ac	ccess Verifi	ation				×
		rogress					
				Job Comp	leted		
L			Selection	cted Devices:0 🥥	Completed Devices:	0	
	No	Device		Protocol	Status	Credential	
			~	fully completed the I	Device Access Verificatio	Job.	
		Page 1	of 1 🕨 🕨			No data to dis	play
			(< Previous Fir	hish Help	Export Report Clos	e

• If any devices are found, they are listed in the Job Completed area, also a successful information message appears.

Minimum Collection Profile

The Minimum Collection Profile and the Default Collection Profile are bundled with the CSP-C appliance. The Minimum Collection Profile contains a minimum set of mandatory collection commands that are required to be processed for each inventory collection/upload. The inventory from the Minimum Collection Profile contains information related to the processing of the following commands that are the minimum set of mandatory collection commands that need to be processed during the inventory collection:

- CLI commands:
 - o show_c7200
 - show_diag
 - o show_hardware
 - show_idprom_all
 - show_inventory
 - o show_module
 - show_rsp_chassis-info
 - o show_version
- Configurations commands:
 - o show startup-config
 - o show running-config

Note

The Minimum Collection Profile has only a subset of the datasets that are present in the Default Collection profile.

Multi-Service Collection

This feature allows a single CSP-C collector to collect data for multiple Cisco services on a customer network, eliminating the need for partners to install multiple collectors. To see the current Service Name, perform the following steps:

Admin123 • Settings • Management • Reports •	Administration - Help -
Dashboard Applications	Manage Users Manage Remote Authentication Servers Modify User Account Settings
Device Management Image: Settings Image: Device Discovery and Management Image: Device Discovery and Management	User Session Report Modify User Preferences Configure Default Device Display Property
	Periodic Backup Preferences Run Backup Now Restore Backup
Reports Administration	View/Installed Downloaded Patches Manage Patch Files
	Server Log Preferences Export Log Files
	Server Process Summary Server Properties
	Diagnostic Tools XML API Console Manage UI Add-ons

• On the menu choose Administration > Server Properties; the Server Properties window appears.

Server Properties			×
Server Properties	License Properties		
∃ Entitlement Pro	perties		
Serial Number		3235346346346346	;
AppUserType		CSPC	
Expiration Date		2099-01-01	
Service Name		CISCO-SERVICE	
License		NONE	
Enabled Feature List		CiscoEnabledServic	e
Customer Id		wersdfsdf	
Inventory Name		sdfgsdfg	
Appliance Id		CSP0009003666	
			Upload New License
			Help Close

• Click the License Properties tab, the Service Name field displays the name of the current service (in example, CISCO-SERVICE).

CSP-C CLI Commands

This section lists all the CLI commands, and a brief explanation of each command. The table also identifies which default user accounts have authority to use each command.



Note A user can connect to the 'target hardware' using SSH to shell, which is part of installed ISO/CSP-C image, using the standard ssh client, and can then configure the CSP-C.

CLI Command	Explanation	User IDs (Privilege)	
?	Displays available commands	cisco, admin, user	
about	 Provides detailed information about appliance hardware and software configuration of interest to Cisco support personnel. This command is synonymous with show version [destination_file] destination file: Located in a directory local to the partner's/customers laptop. Full path 	All (cisco, admin, user, viewer)	
	specified. The 'about'/'show version' command rejected if there is a naming conflict with appropriate screen message.		
clear history *	Clears the command history for the current user, if command is invoked without user id; clears the command history for the specified user if specified with a user id.	*'cisco' can clear histories for all user ids. * 'admin' can clear histories for 'admin', 'viewer' and 'user' * 'viewer' and 'user' can clear their own histories	
collector <options></options>	The smart collector options are: start / stop / status / restart.	cisco, admin, user	
conf date *	Manually set the date and time	cisco, admin, user	
conf dhcp <intf></intf>	DHCP configuration	cisco, admin, user	
conf dns [-ad] *	Configure the domain name server (DNS) (* means "one or more") admin# conf dns [-ad] aa.bb.cc.dd	cisco, admin, user	
	For example:		
	To add the dns name server IP use: admin# conf dns -a 192.168.1.1 192.168.2.1		
	To delete the dns name server IP use: admin# conf dns -d 192.168.1.1 192.168.2.1		
conf ip *	Static IP Configuration, lets you configure: <intf> <ipaddr> <netmask> <gateway></gateway></netmask></ipaddr></intf>	cisco, admin, user	

conf proxy *	conf proxy <ipaddr> <passwd>]</passwd></ipaddr>	[<port>][<use< th=""><th>r></th><th>cisco, admin, user</th></use<></port>	r>	cisco, admin, user
	 user to set the enables intrar routed from the server original Services App The Conf Protonly HTTP trappliance need via a NON-H XMPP, then the routed via the Smart service traffic to complex specific ports communication Available Mode Upload To ensure a successfue Collector to the Cisco Hand specific IP address access to the internet. available modes that we upload to Cisco. ACL might need to be confidupload successfuely. 	by command s raffic. This mea eds to access th TTP protocol I the traffic will proxy servers appliances us municate with for outbound on are noted in ode Requirement and upload from a for backend the follow The CSPC has will allow for a su 's on customers gured to allow the he below mode	which fic to be proxy Smart upports ans if the e internet ike – not be se outbound Cisco. The section <u>nts for</u> <u>CSP-C</u> <u>owing ports</u> <u>w outbound</u> <u>several</u> <u>ccessful</u> firewall	
	Source IP Address	Source Port	Destination IP Address	
	<u>CSPC Server IP</u>	any	<u>72.163.7.13</u> <u>8</u>	
	CSPC Server IP	<u>any</u>	<u>72.163.7.13</u> <u>8</u>	
	CSPC Server IP	<u>any</u>	<u>72.163.7.88</u>	
	CSPC Server IP	CSPC Server IP any 72.163.7.96/ 27		
	SSL			
	Source IP Address	Source Port	Destination IP Address	
	CSPC Server IP	<u>any</u>	<u>72.163.7.11</u> <u>3</u>	-

	XMPP			
	Source IP Address	Source Dort	Destination	
	Source IP Address	Source Port	<u>IP Address</u>	
	CSPC Server IP	any	72.163.7.138	
	CSPC Server IP	any	72.163.7.138	
	• .			
connectivity direct-mode	Options are enable of	r disable. Enab	les or	cisco, admin, user
<pre><options></options></pre>	disables connectivity			. ,
-	gateway - IPsec tunn			
dmidecode *	Displays the hardwar	re status provid	led by Boot	cisco, admin,
£'	Firmware. Enable/disable firew	all rules (this r	afars to the	viewer cisco
firewall <options></options>	OS firewall and is m	,		CISCO
	circumstances only).	-	-	
	In normal situations, firewall rules should be			
	preconfigured in the appliance.			
hostname <hostname></hostname>	Specifies the hostname of the device.			cisco, admin, user
log download *				cisco, admin, user
	the CSP-C/logs direct selected log file can	•		
	the desktop using the			
	Options are:			
	<logtype> (enable d</logtype>	lisable)		
		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 ' 1 11	
1	$logtype = CSP-C \mid a$ Logout from this ses		adminshell	All (cisco, admin,
logout		51011		user, viewer)
passwd	Change cisco/admin	passwd		Each user changes
1				their own password
ping *	View ping details			cisco, admin,
poweroff	Shutdown and power off the system			cisco, admin, user
proxy <options></options>	Turns on/off the proxy configuration for an cisco, admin, use			cisco, admin, user
	appliance.			
	Options are: (enable		- f1	Comment.
pwdreset <user></user>	Reset cisco/admin us	ser passwd to d	efault	Can reset passwords for
				lower levels only
				(See default user
				accounts)
reload	Reboot the system			cisco, admin, user

route [-ad] *	configures a static route on an interface. Options are: <intf> <network mask=""> <gateway></gateway></network></intf>	cisco, admin, user
show connectivity direct- mode	Indicates if Connectivity direct mode (the P2P gateway - IPsec tunnel connection) is enabled or disabled.	cisco, admin, user
show date	Show the current date	All (cisco, admin, user, viewer)
show firewall	Displays the firewall rules	cisco
show history *	Accesses the command history files stored on the appliance. Displays the command history for current user, if invoked without user id; displays a command history for specified user if specified with user id.	*'cisco' can view histories for all user ids. * 'admin' can view histories for 'admin', 'viewer' and 'user' * 'viewer' and 'user' can view their own histories
show hostname	Displays the hostname	All (cisco, admin, user, viewer)
show ipconfig	 Shows the following information: DHCP enabled (yes/no) IP address Subnet mask Physical (MAC) address Default gateway (proxy) DNS server(s) 	All (cisco, admin, user, viewer)
show logs *	Display logs based on selected file in each category. The options are: <logtype> (include exclude begin <pattern>) logtype = ADMINSHELL ADDON LINUX CSP-C The include exclude begin options allow users to specify various search criteria based on the specified pattern on the selected log file. Usage: admin# show logs (logtype) include exclude begin (pattern) E.g.: admin# show logs ADMINSHELL admin# show logs ADDON admin# show logs LINUX admin# show logs CSP-C</pattern></logtype>	cisco, admin, viewer
show monitor	Shows the following information:	All (cisco, admin,

	(1) network utilization (%) for ethernet port(2) CPU and memory utilization	user, viewer)
show route	Displays the routing table of the appliance.	cisco, admin, user
show timezone	Shows which time zone is set	All (cisco, admin, user, viewer)
show version	Display version	All (cisco, admin, user, viewer)
ssh <options></options>	Enables or disables ssh access Options are: (enable disable)	cisco, admin, user
Sudo <command/>	Launch Linux shell from admin shell using the 'sudo' command to prefix Linux shell command.	cisco
	 Example use cases: Can also be used to view logs accessible via the Linux shell only. View the appliances directory structure Mount and unmount an external drive (e.g. USB flash), view directory structure of external drive, copy files between external drive and appliance's hard drive. 	
telnet <options></options>	Enable or disable telnet access. Options are: (enable disable)	cisco, admin, user
timezone	After pressing enter the system displays all the time zones and then asks if you want to change the time zone; enter (yes no)	cisco, admin, user
traceroute <host></host>	Lets you enable trace routing for a network device specified by the IP address and alternatively specify a file name for the results.	cisco, admin,
usb <options></options>	Options are: mount unmount list status copy from USB drive	cisco
User Help: User help for listing commands and for describing individual commands.	 (1) Typing a command name without parameters shall list help for that command e.g. typing "show log". The command has to be available to the user id (privilege); otherwise, it is shown as not available. (2) Typing a ? after a command name shall be equivalent to typing the command without parameters. (3) General keywords such as "show" or "conf" shall list the show or conf commands available to the user, but no help for the commands. (4) Typing a ? shall list all CLI commands 	Each user ID has access to help for the commands that are relevant to its privilege level.

CSP-C Basic Troubleshooting

This section includes basic troubleshooting suggestions for some problems that you may encounter.

Network Configuration Errors

The following errors are related to network configuration:

- **Basic network connection -** Make sure the network cable is properly connected to the CSP-C collector box.
- Showing Network Configuration From the command prompt, enter show ipconfig; a sample screen shot is shown in Fig 9.1.

;isco≠	# show :	ipconfig		
		ce ethO is up disabled Device IP MAC		eth0 1xx2 xx1 xx1 xx1 0xx: 5x: 5x6 xx2 xx1 xx14
	Subnet 1	lask	:	255.255.255.0
	DNS Serv		:	Tirk, Tirk Sirk, Irrik
	Gateway	: Interface Gateway		
	Proxy is	s not configu	ire	ed

Fig 9.1

• **Trying to Ping -** From the CSP-C collector, try to ping another device in the same network from the command prompt. Enter **ping 171.69.37.63**; A sample screen shot is shown in Fig 9.2

admin# ping xxx1xx	x.Sxx3 Txxx6 3		
PING xxx.1xxx.9xxx3.xxx6	3 (xxx1xxx6xxx0xxx63) 56(84) bytes of data.		
64 bytes from 🛪	1xxx ³ xxx ³ xxx ³ : icmp_seq=1 ttl=64 time=1.65 ms		
64 bytes from 🛪	1xxx ² 7xx ² 7xx ⁶³ : icmp_seq=2 ttl=64 time=0.518 ms		
64 bytes from	1xxx ² xxx ² 7xxx ⁶³ : icmp_seq=3 ttl=64 time=0.523 ms		
64 bytes from 🗽	1xxx ² xxx ² xxx ² : icmp_seq=4 ttl=64 time=0.531 ms		
64 bytes from 🗰	1xxx3xxx37xxx53: icmp_seq=5 ttl=64 time=0.525 ms		
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			



Note Make sure the CSP-C collector is reachable over the network, via a ping command.

• Show ipconfig (errors) – show ipconfig does not properly display the IP address, mode or device details. Make sure that you know which interface is the network interface (eth0). In addition, make sure that a known working network cable is properly connected to your network at one end and to the eth0 end on the hardware.

• **Timesync (errors)** – Even though the user provided a correct NTP server IP address, issuing timesync command obtains an error. Make sure that your hardware is properly connected to the network, using the **eth0** interface. Also, make sure that your hardware is configured with the proper IP address, and that it is able to reach the network.

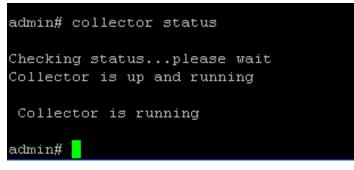
```
٩.
```

Note If you initially configured the ip address to ethernet interface eth0, then subsequently reconfigured the collector to another ethernet interface (e.g. eth1), you must re-install the CentOS image and reconfigure the ip address to eth1. However, the reverse direction from ip-configuring with eth1 then switching to eth0, would not require re-installation of the CentOS image

Collector Registration Errors

The following errors are related to collector registration:

• **Collector Status -** From the command prompt enter **collector status**. A sample screen shot is show in Fig 9.3





• **Registration Status –** Make sure that the registration file uploads to the CSP-C collector without any errors on the browser.

VMware Basic Troubleshooting

This Section includes some of the basic troubleshooting suggestions for some problems you may encounter.

Network Configuration Errors

Basic network connection - Make sure network cable is properly connect to target hardware box

Showing the network configuration – From the command prompt enter **show ipconfig**. A sample graphic is shown in the following graphic.



Trying to Ping - From the target hardware, try to ping another device in the same network from the command prompt. Enter ping **171.69.37.63**. A sample graphic is shown in the following graphic.

admin# ping xxx1xxx.9xxx 7xxx53				
PING xxx xxx xxx xxx3 (xxx3 (xxx xxx3) xxx3) 56(84) bytes of data.				
64 bytes from xxx ³ xxx ³ xxx ³ : icmp_seq=1 ttl=64 time=1.65 ms				
64 bytes from ktl=64 time=0.518 ms				
64 bytes from <pre>kxxi.xxxi.xxxi.xxxi3: icmp_seq=3 ttl=64 time=0.523 ms</pre>				
64 bytes from xxx.xxx.3xxx3: icmp_seq=4 ttl=64 time=0.531 ms				
64 bytes from xxx.xxx.3xxx3: icmp_seq=5 ttl=64 time=0.525 ms				
xx xx xx xx ping statistics 5 packets transmitted, 5 received, 0% packet loss, time 3999ms rtt min/avg/max/mdev = 0.518/0.750/1.653/0.451 ms				

Also, make sure the target hardware is reachable over the network, via a ping command.

Show ipconfig (errors) – Issuing the **show ipconfig** command does not display the IPAddress, mode, or device details. Ensure that your hardware network interface is using interface (**eth0**). In addition, make sure that working network cable is properly connected to your network at one end and to the **eth0** on the hardware.

Timesync (errors) – Even though a user provided the proper NTP server IP address, issuing the **timesync** command obtains an error. Ensure that your hardware is connected to network using the **eth0** interface. Also, make sure that your hardware is configured with proper IP Address and is able to reach network.

Collector Registration Errors

Collector Status - From the command prompt enter **collector status.** A sample graphic is show in the following graphic.



Registration Status – Make sure that registration file is uploaded into target hardware without any errors on the browser.

VMware Image Configuration Errors

Cisco recommends that the Linux (Host) machine has a NIC card, which is properly configured and network reachable. It is recommended that Linux (Host) machine is running over DHCP so that the VMware smart collector running on the Linux (Host) machine can get a proper DHCP address.

In order for the VMware smart collector to function normally, make sure that it gets proper IPAddress via DHCP or configured with reachable static IPAddress (based on your network configuration).

Best Practices

This section provides suggestions and tips that allow you to update information more efficiently on the collector and configure data that will make collector data identification easier. This section covers the following areas:

- Adding Multiple Devices in IP Address Host Name Field
- File Name Prefix Suggestion
- Reusing the Same Certificate for another Collector

Adding Multiple Devices in IP Address Host Name Field

This section describes how to add multiple devices to the IP Address Host Name Field.



• There are two ways to access the Managed Devices data, from the menu \bigcirc or navigation pane. \oslash

Discover and Manag	e Network Devices	
Discover devices with kn	wn Ip Addresses	
Enter the list of Ip Addre	sses for the known devices.	
IP Address/Host Name	192,168.0.1,192168.0.2	
+ Add × Remove	🖉 Update	
N.		
-		
	< Back Next >	Help Cancel

 In the IP Address/Host Name field enter the IP Addresses separated by a comma or space delimiter to add multiple addresses.

📾 Discover and Manage Network Devices	
Discover devices with known Ip Addresses	
Enter the list of Ip Addresses for the known devices.	
3P Address/Host Neme	
1 Add X Remove d Update	
192.168.0.1 192166.0.2	
< Back Next >	Help Cancel

• Click Add, this adds the addresses that you entered in the IP Address/Host Name field.

File Name Prefix Suggestion

This section describes the process and benefits of changing the default file name prefix.

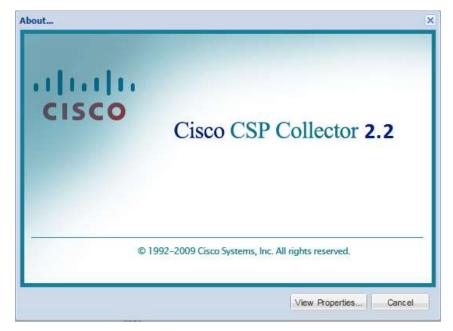
	Datasets Profile	e Details				
Collection Profile Details	No. of the local division of the local divis					
* Profile Title	1	Minimum Collector Profile]
* Identifier	_mincp					Generate
Description						1
	1	-				1
Profile Priority Preserve Run Count Use Fallback Credentials		Medum 5				il .
					-	1
Run Discovery Before Col		<u>[7]</u>				
Run Prompt Discovery bel	Ser an average a	<u>e</u>				
Run DAV Before Collection	n	F				
					Advan	ed Options
Collection Profile Schedule						
	tion					
		t Time Zone (Ea	astern Standard Time)			
Schedule Periodic Collect	to use the Clien	0.305.2-348	astern Standard Time)	n •		
Schedule Periodic Collect The selected preference is	to use the Clien	0.305.2-348		17 ¥		
Schedule Periodic Collect The selected preference is Schedule start Date/Time	to use the Clien	0.305.2-348		1		
Schedule Periodic Collect The selected preference is Schedule start Date/Time Repeat schedule	to use the Clien	0.305.2-348	03:01:35PM 4			
Schedule Periodic Collect The selected preference is Schedule start Date/Time Repeat schedule Repeat every Schedule end Date/Time	February 6, 201	13 +	03:01:35PM (4) ha	n •		
Schedule Periodic Collect The selected preference is Schedule start Date/Time Repeat schedule Repeat every	February 6, 201	13 +	03:01:35PM (4) ha	11 x		
Schedule Periodic Callect The selected preference is Schedule start Date/Time Repeat schedule Repeat every Schedule end Date/Time Resume this job autor	February 6, 201	13 +	03:01:35PM (4) ha	n •		
Schedule start Date/Time Repeat schedule Repeat every Schedule end Date/Time	to use the Client February 8, 201	13 -	minutes 03:01:35PM (4) 03:01:35PM (4) a CSPC Server restart	97 *		
Schedule Periodic Collect The selected preference is Schedule start Date/Time Repeat schedule Repeat every Schedule end Date/Time Resume this job autor Export Options	to use the Client Petercary 8, 201	13 -	initutes ini	n •		
Schedule Periodic Callect The selected preference is Schedule start Date/Time Repeat schedule Repeat every Schedule end Date/Time Resume this job autor Export Options Deport upon successful of	to use the Client Petercary 8, 201	13 + rupted due to - Collection Profit	initutes ini			
Schedule Periodic Collect The selected preference is Schedule start Date/Time Repeat schedule Repeat every Schedule end Date/Time Resume this job autor Deport Options Export Options Export Permat	to use the Client February 8, 201	13 + rupted due to - Collection Profit	initutes ini			

If the default file name prefix is used on every collector that you have, then it will be very difficult to determine which export file is associated to which collector. Instead of using default file name prefix, use something different like the appliance id for each file name prefix.

The appliance id can be found by perform the following steps:

File * Settings * Management * Reports *	Administration •	Help -
		Abola.
Deshboard Applications		

• On the CSPC menu choose Help > About ; the Cisco CSP Collector – About window appears.



• Click View Properties; the Properties window appears.

Properties	×
Server Properties License P	roperties Client Properties
Entitlement Properties Appliance 3d Connect To 3d Serial Number Operation	P551359988391052 CSP0009001551
Enabled Feature List License Customer Id Service Name AppUserType Expiration Date	sedtprti DEFAULT-LICENSE CISCO SYSTEMS SE appliance 2020-01-01
Heb	Upload New License

• The appliance id is located halfway down the list. Use the appliance id (CSP...) as the file name prefix, the finding of the export file for each collector will be much easier.

Reusing the Same Certificate for another Collector

To re-use the same certificate on another collector perform the following steps:

- Find the collector certificate information (go to finding appliance id).
- Shutdown the first collector.
- Start the new collector.
- Use the same certificate number (obtained in the first step of this section) in the new collector.
- Important Make sure that you do not use the same appliance id/certificate on two active collectors, since this would cause issues during uploads (not knowing which collector sent the upload).