Admin Tools

Admin Tools Menu – Require Admin Privilege

- **Admin Console**
  - Allows the administrator to configure CSM Server.

- **Import Hosts**
  - Imports hosts via comma-delimited texts.

- **Create User**
  - Creates new users on the system.

- **List/Edit/Delete Users**
  - Displays all the users defined in the system. To make changes, click the user name of interest.

- **System Logs**
  - Displays all the system logs captured by CSM Server. These logs help determine anomalies that have occurred on CSM Server.

Admin Console

Admin Console - General

Process Settings

CSM Server must be restarted in order for the changes below to take place.

Number of Inventory Processes	5
Number of Installation Processes	10
Number of Software Download Processes	5

Inventory Retrieval Settings

CSM Server must be restarted in order for the changes below to take place.

Enable Inventory Retrieval	Yes / No
Hour to Perform Inventory Retrieval	12:00 AM ⬍

- **Process Settings**
  - The number of processes to use to retrieve software inventory information.
  - The number of processes to use to perform scheduled installation.
  - The number of processes to use to download SMUs or Service Packs.

- **Inventory Retrieval Settings**
  - Enabled by default.
  - Specify the hour of the day to perform the inventory retrieval function (i.e. software package and hardware inventory information).
  - After the inventory retrieval function is performed, CSM Server will perform other housekeeping tasks (see Housekeeping Settings).

Admin Console - General

- **Software Installation Settings**
  - By default, CSM Server enables users to schedule installations on managed hosts.
  - By Default, CSM Server enables scheduled installations to run.

- **Housekeeping Settings**
  - Specify the number of software inventory history records to keep per host.
  - Specify the number of install history records to keep per host.
  - Specify the number of SMU/SP download history records to keep per user.
  - Specify the number of system log records to keep on the system.
  - CSM Server will purge the history records based on the numbers specified on a daily basis (see Software Inventory Settings).

Admin Console – LDAP Authentication

LDAP Authentication

If enabled, the designated LDAP Server will be used for CSM Server user login authentication. An example of an LDAP Server URL is ldaps://ds.cisco.com:636.

Enable LDAP Yes No

LDAP Server URL ldaps://ds.cisco.com:636

Grant User Privilege Viewer

To restrict access to certain user group, define the Active Directory Distinguished Names below. An example may be

CN={},OU=Employees,OU=Cisco Users,DC=cisco,DC=com

'{}' is a placeholder string and will be replaced with the user login name.

Distinguished Names CN={},OU=Employees,OU=Cisco Users

- The LDAP user interface is only available if python-ldap is installed. Refer to the install guide on how to install python-ldap and required libraries.

- By default, LDAP authentication is disabled. The LDAP Server URL can either be a non-secure or secure URL (i.e., ldap:// or ldaps://).

- If a user does not already exist in the CSM Server database, a new user will be created and assigned an access privilege defined by the Grant User Privilege selector when the user is first authenticated with an LDAP server.

- To restrict access from certain LDAP user groups to CSM Server, specify them in the Distinguished Names box.

Admin Console – Host Authentication

Host Authentication

If enabled, the default host username and password will be used for device authentication.

Use Default Host Authentication [Yes] [No]

Default Host Username `alex`

Default Host Password [Use Password on File] 👁

Apply the Default Host Authentication to:

- ● All Hosts
- ○ Hosts with no Specified Username and Password

If enabled, CSM Server User Credential will be used for device authentication during software installation. This will not affect the daily software inventory retrieval as it will still use the host's username and password (or if the Default Host Authentication is enabled, the default host username and password will be used).

Use CSM Server User Credential [Yes] [No]

- **Default Host Authentication**
  - If enabled, the default host username and password defined will be used either for all hosts or for hosts with no specified username and password, as selected with the radio buttons.
- **Use CSM Server User Credential**
  - If enabled, the CSM Server User Credential will be used for device authentication during software installation. This will not affect the daily software inventory retrieval as it will still use the host's username and password (or if the Default Host Authentication is enabled, the default host username and password will be used).

Admin Console - CCO

CCO Connection

If CCO connection is disabled
- The ability to view DDTS information will be disabled.
- The ability to download software will be disabled.
- A request to retrieve software information will cause CSM Server to retrieve previously saved software information from the database instead of from CCO. To refresh the database with up-to-date information, click the Retrieve Software information button.

Enable CCO Connection [Yes | No]   [Retrieve Software Information]

- When Enable CCO Connection is set to 'Yes', CSM Server will contact CCO for all software information inquiries.

- Click Retrieve Software Information to manually trigger retrieval of all software information from CCO for all supported platforms and releases. This information will be stored in the database.

Admin Console - Time Zone

Time Zone Setting (UTC vs Local Time Zone)

By default, local time zone is used on CSM Server UI. If Coordinated Universal Time (UTC) is selected, all time information will be displayed in UTC time zone.

Use UTC Time Zone   Yes   No

- By default, CSM Server uses the web browser's local time zone when displaying or prompting for date time information.

- For managing devices across multiple time zones, it may make sense to configure CSM Server to use UTC time zone.

Admin Console - Notifications

Email Notification Settings

Enable Email Notification	**Yes** / No
Outgoing SMTP Server	smtp.gmail.com
SMTP Server Port	587
Sender Email Address	alex_gmail@gmail.com

Logon Information

Server uses Authentication	**Yes** / No
Username	alex_gmail
Password	Use Password on File
Secure Connection	TLS

- Email notification is disabled by default. Click Yes to enable it.

- Define the SMTP server information. Some SMTP servers may require user authentication. If that is the case, click Yes and define the user authentication information.

- CSM Server uses the SMTP settings to email users about scheduled install status.

Import Hosts

Import Hosts

- **General**
  - Select a default region. If the import data does not contain region information, the selected region will be used as the default.
  - Select the Jump Host and Software Profile, if applicable.

Import Hosts

Import Hosts

GENERAL	IMPORT DATA

Click Import Instructions for more information.

Import Instructions ▾

```
hostname,region,location,roles,ip,username,password,connection,port,enable_password <- header
myhost1,California USA,blg 20,,172.27.22.34,johnsmith,john123,telnet,, <- blank for empty fields
myhost2,California USA,blg 20,PE,172.27.22.35,davidsmith,david123,ssh,"2033,2034",
```

```
hostname,region,location,roles,ip,username,password,connection,port,enable_password
myhost1,California USA,blg 20,,172.27.22.34,johnsmith,john123,telnet,,
myhost2,California USA,blg 20,PE,172.27.22.35,davidsmith,david123,ssh,"2033,2034",
```

Previous

Use IP Range   Finish

Import Data

- Click the Import Instructions button at the top for detailed instructions for filling out the import data text window.

- Type or paste the import data into the text window. Then, click Finish to import the data.

- Use the 'Use IP Range' button to auto-generate import data based on IP ranges.

Create Users

Create Users

Create User

Username	johnsmith
Password	•••••••• 👁
Privilege	Network Admin ⇕
Active	Yes / No

Information

Full Name	John Smith
Email Address	johnsmith@mycompany.com

Save Cancel

- Specify the username and password.

- Specify the user privilege.
  - Admin
  - Network Admin
  - Operator
  - Viewer

- Specify whether the user is active or not. Active users will be able to log into CSM Server.

Security Privileges

Four levels of security privileges:

- **Admin**
  - Users with this privilege have no limitations.

- **Network Admin**
  - Can create hosts, jump servers, regions, and server repositories.
  - Can schedule/modify/delete installations.
  - Cannot access the Admin-related functions.

- **Operator**
  - Cannot create hosts, jump servers, regions, or server repositories.
  - Can schedule/modify/delete installations.

- **Viewer**
  - Can only view information.

List/Edit/Delete Users

List/Edit/Delete Users

Users

10 ⇕ records per page							Search:
Username ▲	**Privilege** ⇕	**Full Name** ⇕	**Email Address** ⇕	**Active** ⇕	**Created Date** ⇕	**Modified Date** ⇕	**Action** ⇕
lab	Viewer	lab	lab	True	08/31/2016 02:12 PM	10/05/2016 02:18 PM	Delete
root	Admin	admin	root@gmail.com	True	10/21/2015 03:53 AM	10/25/2016 11:20 AM	Delete
viewer	Viewer	viewer	viewer	True	10/21/2016 09:16 AM	10/21/2016 09:16 AM	Delete

Showing 1 to 3 of 3 entries

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- To edit a user, click the username of interest. An Edit User dialog will be displayed.
- The Edit User dialog can be used to change the user privilege level, disable the user login privilege, and edit other information.
- To delete a user, click the Delete link for that user.

System Logs

System Logs

System Logs 📥

| | 10 ⬍ | records per page | | Search: | |

No. ▲	Severity	Message	Created Time	Trace
241	ERROR	Server error!	08/25/2015 08:41 PM	📄
242	ERROR	Server error!	08/25/2015 08:41 PM	📄
243	ERROR	bsd_service hit exception pid provided in the request is invalid. Please invoke the service with the valid pid.	08/25/2015 05:36 PM	
244	ERROR	DownloadManager hit exception - download job = 110	08/25/2015 05:36 PM	📄
245	ERROR	bsd_service hit exception pid provided in the request is invalid. Please invoke the service with the valid pid.	08/25/2015 05:35 PM	
246	ERROR	DownloadManager hit exception - download job = 109	08/25/2015 05:35 PM	📄
247	ERROR	bsd_service hit exception pid provided in the request is invalid. Please invoke the service with the valid pid.	08/25/2015 05:33 PM	
248	ERROR	DownloadManager hit exception - download job = 109	08/25/2015 05:33 PM	📄
249	ERROR	bsd_service hit exception pid provided in the request is invalid. Please invoke the service with the valid pid.	08/25/2015 05:30 PM	
250	ERROR	DownloadManager hit exception - download job = 109	08/25/2015 05:30 PM	📄

Showing 241 to 250 of 2,163 entries

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- These logs are created when exceptions are encountered by CSM Server. They can be used for system debugging. These exceptions may or may not affect system stability and performance.

- Click the icon next to the page title to download the system logs.