



About Switch Overview for SAN
Operational Mode Setups, Release
12.1.3

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New and Changed Information

The following table provides an overview of the significant changes up to this current release. The table does not provide an exhaustive list of all changes or of the new features up to this release.

Release Version	Feature	Description
NDFC release 12.1.3	Reorganized content	Content within this document was originally provided in the <i>Cisco NDFC-Fabric Controller Configuration Guide</i> or the <i>Cisco NDFC-SAN Controller Configuration Guide</i> . Beginning with release 12.1.3, this content is now provided solely in this document and is no longer provided in those documents.

Switch Overview

Navigate to **SAN > Switches > Switch Overview** to view the Switch Overview menu. The sub menus are described in the following sections.

Viewing Switch Summary

You can view information about switch along with the switch summary on **Switch Overview** tab. Navigate **SAN > Switches**, click on required switch. A slide-in pane appears. Click **Launch** icon to view the **Switch Overview** window.

The following are the default cards that appear in the **Summary** tab:

Card	Description
Switch Information	Displays details of switch such as name, health status, IP address, model, version and other switch information.
Event Analytics	Displays events with Critical , Major , Minor , and Warning severity. In this card, click Launch icon to navigate to events tab for more information.
Resources	Displays the resource utilization of switch in the graph form.
Modules	Displays the switches on which the modules are discovered, the models name and the count.
Interfaces	Displays the switch interface summary information.
Port Usage	Displays the ports inventory summary information.

Modules

To view the inventory information for modules from the SAN Controller Web UI, perform the following steps:

1. Choose **SAN > Switch > Switch Overview > Modules**. Similarly you can view modules from fabric overview window, **SAN > Fabric > Fabric Overview > Modules**

The **Modules** tab is displayed with a list of all the switches and its details for a selected Scope.

You can view required information in table, enter details in **Filter by Attributes**.

2. You can view the following information.
 - **Name** displays the module name.
 - **Model** displays the model name.
 - **Serial Number** column displays the serial number.
 - **Type** column displays the type of the module.
 - **Oper. Status** column displays the operation status of the module.
 - **Slot** column displays the slot number.
 - **HW Revision** column displays the hardware version of the module.
 - **Software Revision** column displays the software version of the module.
 - **Asset ID** column displays the asset id of the module.

Viewing Interface

Choose **SAN > Switch > Switch Overview > Interface**

You can also view from the fabric overview window:

SAN > Fabric > Fabric Overview > Interface

The following table describes the fields that appear on the **Interfaces** tab.

Field	Description
Name	Specifies the interface name.
Admin. Status	Specifies the administration status of the interface.
Oper. Status	Specifies the operational status of the interface.
Reason	Specifies the reason for failure.
Speed	Specifies the speed of the interface in Gbs.
Mode	Specifies the mode of the interface.
Switch	Specifies the name of the switch.
VSAN	Specifies the name of the connected VSAN.
Connected To	Specifies the connection details.
Connected To Type	Specifies the type of connection.
Description	Specifies the details about the interface.
Owner	Specifies the port owner name.
Port Group	Specifies the port group number for the interface connected.

To perform various operations on the inventory tab, follow this procedure:

1. To perform no shutdown for an interface, check the check box for the required interface and choose **Actions > No Shutdown**.

A warning window appears, click **Confirm**.

2. To shutdown an interface, check the check box for the required interface and choose **Actions > Shutdown**.

A warning window appears, click **Confirm**.

3. To assign a port owner for an interface, do the following:
 - a. Check the check box for the required interface and choose **Actions > Owner**.
 - b. In the **Set Port Owner** dialog box that appears, enter a required name and click **Apply**.
4. To add a description for an interface, do the following:
 - a. Check the check box for the required interface and choose **Actions > Description**.



You can add description for multiple interfaces simultaneously.

- b. In the **Set Port Description** dialog box, enter the description and click **Apply**.
5. To set up diagnostic for an interface, check the check box for the required interface and choose **Actions > Link Diagnostics**.

Viewing Switch Licenses

Licenses You can view the following information on Licenses tab.

- **Feature** column displays the feature names of the selected switch.
- **Status** column displays the status of licenses. Status will be either **In Use** or **Unused**.
- **Type** column displays the type of the licenses.
- **Warnings** column displays the grace period of licenses and its expiry date.

You can use **Filter by attribute** to view required information.

Click **Refresh** icon to refresh the table.

Event Analytics

Event Analytics includes the following topics:

- **Alarms** (see "Alarms" in [Event Analytics](#))
- **Events** (see "Events" in [Event Analytics](#))
- **Accounting** (see "Accounting" in [Event Analytics](#))

Viewing Backup

You can view the following information on the Backup tab.

- **Switch** column displays the switch name.
- **Backup Date** column displays the backup date.
- **Backup Tag** column displays the backup tag name.
- **Backup Type** column displays the type of backup.
- **Configuration File** column displays the configuration files that are archived for that device.

You can use **Filter by attribute** to view required information.

Click the **Refresh** icon to refresh the table.

The following table describes the actions you can perform in this tab:

Action	Description
Copy to bootflash	Refer to Copy Bootflash .
Compare	Refer to Compare Configuration Files .
Export	Refer to Export Configuration .
Edit tag	To edit a tag of a switch. Choose check box for a required switch, choose Actions > Edit tag and click OK .
Mark as golden	To mark switch as a golden backup. Choose check box for a required switch, choose Actions > Mark as golden . A confirmation window appears, click Confirm . Refer to the <i>Cisco NDFC Fabric Controller Configuration Guide</i> for more information about golden backups.
Remove as golden	To remove switch from a golden backup. Choose check box for a required switch, choose Actions > Remove as golden . A confirmation window appears, click Confirm .
Delete	To delete switch from a backup. Choose check box for a required switch, choose Actions > Delete . A confirmation window appears, click Confirm .

Copy Bootflash

You can copy the configuration files to the same device, to another device, or multiple devices concurrently.

Perform the following task to view the status of tasks:

1. From SAN Controller home page, choose **SAN > Switch > Switch Overview > Backup**.
2. Click **Copy to bootflash**.

Copy to bootflash page appears, displaying the **Source Configuration Preview** and **Selected Devices** area.

Source Preview area shows the contents of running/startup/version configuration file which is copied to the devices.

3. In the **Selected Devices** area, check the device name check box to copy the configuration to the device.



You can select multiple destination devices to copy the configuration.

The selected devices area shows the following fields:

- Device Name - Specifies the target device name to which the source configuration is copied.
- IP Address - Specifies the IP Address of the destination device.
- Group - Specifies the group to which the device belongs.
- Status - Specifies the status of the device.

4. Click **Copy**.

A confirmation window appears.

5. Click **Yes** to copy the configuration to the destination device configuration.

Compare Configuration Files

This feature allows you to compare the configuration file with another version of the same device or with the configuration file of another device.

Perform the following task to compare the configuration files.

1. Check the check box and select two configuration files to compare.

The first file that you selected is designated as Source and the second configuration file is designated as the Target file.

2. Navigate to **SAN > Switch > Switch Overview > Compare**.
3. Click **Compare Configuration**.

View Config Diff page appears, displaying the difference between the two configuration files.

The Source and Target configuration files content is displayed in two columns. From the drop-down list in the right-top corner, choose **All** to view the entire configuration. You can also choose **Changed** to view the configuration differences of the configuration files.

The differences in the configuration file are show in the table, with legends.

- **Red:** Diff configuration details.
- **Green:** New added configuration.

- **Blue:** Modified configuration details.
4. Click **Copy to Target** to copy the source configuration to the target configuration file. Click **Cancel** to revert to the configuration details page.

The Copy Configuration window displays the source configuration preview and the target device of the destination configuration. The selected devices area shows the following fields:

- Device Name - Specifies the target device name to which the source configuration is copied.
 - IP Address - Specifies the IP Address of the destination device.
 - Group - Specifies the group to which the device belongs.
 - Golden Config - Specifies the version of the destination configuration.
 - Status - Specifies the status of the device.
5. Click **Yes** to copy the configuration to the destination device configuration.

Export Configuration

You can export a configuration file from the SAN Controller server. Perform the following task to export a configuration file.

1. From SAN Controller home page, choose **Configure > Backup**, select a configuration to export.
2. Click **Export Configuration**.

The files are downloaded in your local system. You can use the third-party file transfer tools to transfer these files to an external server.

Viewing of Port Usage

You can view the following information on Port Usage tab.

- **Port Speed** column displays the speed of the port.
- **Used Ports** column displays the total ports with the mentioned port speed.
- **Available Ports** column displays the available ports for the port speed.
- **Total Ports** column displays the total ports with the mentioned speed.
- **Estimated Day Left** column displays the estimated days left for the ports.

You can use **Filter by attribute** to view required information.

Click **Refresh** icon to refresh the table.

Used ports displays the total used ports for the selected switch. **Total ports** displays the total available ports for the selected switch.

Viewing Bootflash

You can view the following information on Bootflash tab.

- **Primary Bootflash Summary** card displays the total, used and available space.
- **Secondary Bootflash Summary** card displays the total, used and available space.
- **Directory Listing** area displays check box for **Primary Bootflash** and **Secondary Bootflash**.

This area shows the filename, size, and last modified date for all the files and directories on the switch bootflash. Choose **Actions** > **Delete** to delete files to increase the available space on the switch.

Device Manager

See chapter for descriptions and instructions for using the Cisco MDS 9000 Device Manager.



Device Manger session is terminated when you navigate to another tab on the **Switch Overview** screen.

Blades

You can view the interfaces of the UCS switches through **SAN > Switches > Switch Overview**, on the SAN Controller Web UI.



Ensure that the UCS switches are listed on SAN Controller and the status of these switches are correct. You can view these tabs only for UCS switches.

Blades tab displays information of all server blades attached to the UCS FI.

The UCS has three tabs:

- Blades
- vNICs
- vHBAs

The blades tab displays all blade information as cards. Click **More Details** icon on each blade area to view details on the side panel of the selected blade.

You can click the **Collapse All** or **Expand All** icon to collapse all or expand all blade areas respectively.

Blades tab displays information of all server blades attached to the UCS FI. Primary UCS FI only in redundancy setup or standalone UCS FI are displayed.

vNICs

vNICs tab displays the list of vNIC for that UCS FI. Click the chart icon to show the 24 hour traffic for the vNIC.

vHBAs

vHBAs tab displays the list of vHBA for that particular UCS FI. Click the chart icon to view 24 hour traffic for the vHBA.

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