

Interfaces

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Interfaces

This section provides information about SAN interfaces, such as, FC ports, Ethernet ports, port groups, and so on.

FC Ports

Choose **SAN > Interfaces > FC Ports** to view information about FC ports.

Viewing Inventory Information for FC Ports

Choose **SAN > Interfaces > FC Ports > Inventory** tab to display the list of Fibre Chanel interfaces.

The following table describes the fields that appear on **SAN > Interfaces > FC Ports > Inventory**.

Field	Description
Status	Specifies the status of the interface.
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Enclosure	Specifies the enclosure.
Device Name	Specifies the device name.
VSAN	Specifies the VSAN to which the interface belongs to.
Switch interface	Specified the interface name.
Type	Specifies the interface type.
Port WWN	Specifies the port world wide name (pWWN).

Field	Description
Speed	Specifies the interface speed.
FCID	Specifies the interface FCID.

Viewing Performance Information for FC Ports

Choose **SAN > Interfaces > FC Ports > Performance** tab to view the performance of Fibre Chanel interfaces.

The following table describes the fields that appear on **SAN > Interfaces > FC Ports > Performance**. You can filter the data using the **Day, Week, Month**, and **Year** options from the **Show last day** drop-down list. You can also filter for **Host Ports** and **Storage Ports** using **Show Host Ports** drop-down list.

To enable Performance, navigate to the **Fabric** window, choose the required fabric, and choose **Actions > Configure Performance**.

Field	Description
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Name	Specifies the interface name. Click the chart icon in the **Name** column to view a graph of the traffic on that device according to the selected timeline. You can filter the data using the **Day, Week, Month**, and **Year** options.
VSAN	Specifies the VSAN to which the interface belongs to.
Switch interface	Specified the interface name.
Speed	Specifies the interface speed.
Rx/Tx	
Avg	Specifies the average receiving or transmitting speed.
Avg %	Specifies the average percentage of receiving or transmitting speed.
Peak	Specifies the peak utilization of the receiving or transmitting speed.
Peak %	Specifies the peak utilization percentage of the receiving or transmitting speed.
Rx + Tx	Specifies the sum of Rx and Tx speeds.
Errors/Discards	

Field	Description
In Avg	Specified the average of incoming errors or discards.
Out Avg	Specified the average of outgoing errors or discards.
In Peak	Specified the peak of incoming errors or discards.
Out Peak	Specified the peak of outgoing errors or discards.

Viewing Transceiver Information for FC Ports

Choose **SAN > Interfaces > FC Ports > Transceiver** tab to view the transceivers in Fibre Chanel interfaces.

The following table describes the fields that appear on **SAN > Interfaces > FC Ports > Transceiver**.

Field	Description
Enclosure	Specifies the enclosure name.
Device Alias	Displays the alias retrieved from the switch. A device aliases is a user-friendly name for a port WWN. Device alias name can be specified when configuring features.
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Port WWN	Specifies the port world wide name (pWWN).
Fcid	Specifies the associated interface FCID.
Switch interface	Specified the interface name.
Link Status	Displays the operational status of the link.
Vendor	Specifies the name of the vendor.
Serial Number	Specifies the serial number of the enclosure.
Model	Specifies the name of the model.
Firmware	The version of the firmware that is executed by this HBA.
Driver	The version of the driver that is executed by this HBA.
Additional Info	The information list corresponding to this HBA.

Viewing FC FICON Ports

Choose **SAN** > **Interfaces** > **FC Ports** > **FICON** to display the list of Fiber Channel FICON interfaces.

The following table describes the fields that appear on the **FICON** page. Use the **Show last day** drop-down list to filter the view by **Day**, **Week**, **Month**, and **Year**.

Field	Description
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Switch interface	Specifies the switch interface.
Description	Specifies the interface description.
FCID	Specifies the associated interface FCID.
Mode	Specifies the interface mode.
FICON ID	Specifies the FICON ID.
Connected To	Specifies where the interface is connected to.
VSAN	Specifies the VSAN to which the interface belongs to.
Speed	Specifies the interface speed.
Rx/Tx	
Avg	Specifies the average receiving or transmitting speed.
Avg %	Specifies the average percentage of receiving or transmitting speed.
Peak	Specifies the maximum utilization of the receiving or transmitting speed.
Peak %	Specifies the maximum utilization in percentage of the receiving or transmitting speed.
Rx + Tx	Specifies the sum of Rx and Tx speeds.
Errors/Discards	
In Avg	Specifies the average of incoming errors or discards.
Out Avg	Specifies the average of outgoing errors or discards.
In Peak	Specifies the maximum number of incoming errors or discards.

Field	Description
Out Peak	Specifies the maximum number of outgoing errors or discards.

Viewing Performance Information for Ethernet Ports

Choose **SAN > Interfaces > Ethernet** tab to display the list of Ethernet interfaces.

The following table describes the fields that appear on **SAN > Interfaces > Ethernet**. Use the **Show last day** menu drop-down list to filter the view by **Day**, **Week**, **Month**, and **Year**.

Field	Description
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Name	Specifies the interface name. Click the chart icon in the **Name** column to view a graph of the traffic on that device according to the selected timeline. You can filter the data using the **Day**, **Week**, **Month**, and **Year** options.
Description	Specifies the interface description.
Speed	Specifies the interface speed.
Rx/Tx	
Avg	Specifies the average receiving or transmitting speed.
Avg %	Specifies the average percentage of receiving or transmitting speed.
Peak	Specifies the peak utilization of the receiving or transmitting speed.
Peak %	Specifies the peak utilization percentage of the receiving or transmitting speed.
Rx + Tx	Specifies the sum of Rx and Tx speeds.
Errors/Discards	
In Avg	Specified the average of incoming errors or discards.
Out Avg	Specified the average of outgoing errors or discards.
In Peak	Specified the peak of incoming errors or discards.
Out Peak	Specified the peak of outgoing errors or discards.

Viewing Performance Information for Port Groups

Choose **SAN > Interfaces > Port Groups** tab to display the list of port groups.

The following table describes the fields that appear on **SAN > Interfaces > Port Groups**. Use the **Show last 24 hours** menu drop-down list to filter the view by **24 Hours**, **Week**, **Month**, and **Year**.

Field	Description
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Port Group Name	Specifies the port group name. Click the name to display the port group members.
Rx/Tx	
Avg	Specifies the average receiving or transmitting speed.
Peak	Specifies the peak utilization of the receiving or transmitting speed.
Rx + Tx	Specifies the sum of Rx and Tx speeds.
Errors/Discards	
In Avg	Specified the average of incoming errors or discards.
In Peak	Specified the peak of incoming errors or discards.
Last Updated	Specifies when the information was last updated.

Port Group Member

Choose **SAN > Interfaces > Port Groups** and click a port group name to view the port group members.

The following table describes the fields that appear on **Port Group Member**.

Field	Description
Port Group Member	Specifies the port group member. Click the chart icon to view a graph of the traffic for the port group member according to the selected timeline. You can filter the data using the **Day**, **Week**, **Month**, and **Year** options.
Speed	Specifies the speed for the port group member.
Rx/Tx	
Avg	Specifies the average receiving or transmitting speed.

Field	Description
Peak	Specifies the peak utilization of the receiving or transmitting speed.
Rx + Tx	Specifies the sum of Rx and Tx speeds.
Errors/Discards	
In Avg	Specified the average of incoming errors or discards.
In Peak	Specified the peak of incoming errors or discards.
Last Updated	Specifies when the information was last updated.

Viewing Performance Information for Optics

Choose **SAN > Interfaces > Optics** tab to display the list of optics.

The following table describes the fields that appear on **SAN** > **Interfaces** > **Optics**.

Field	Description
Fabric	Specifies the fabric name. Click the fabric name to display the fabric status on the right-side of the page. Click the **Launch** icon on the top-right side of the pane to see Fabric Overview. For information on Fabric Overview, see Fabric Overview.
Switch	Specifies the switch name.
Interface	Specifies the interface name. Click the chart icon in the **Interface** column to view a graph of the optics parameters on that device according to the selected timeline. You can filter the data using the **Day**, **Week**, **Month**, and **Year** options.
Temperature (C)	Specifies the average, minimum, and maximum temperature.
Current (mA)	Specifies the average, minimum, and maximum current.
OpRxPower (dBm)	Specifies the average, minimum, and maximum optic Rx power.
OpTxPower (dBm)	Specifies the average, minimum, and maximum optic Tx power.
Voltage (V)	Specifies the average, minimum, and maximum voltage.

To view the optic metric information of devices that are connected to all the FC ports from the Cisco Nexus Dashboard Fabric Controller Web UI, perform the following steps:

1. Choose **SAN** > **Interfaces** > **Optics**.

   The **Optics** window is displayed.

2. You can sort the table using **Filter by attributes** field to enable filtering by **Fabric**, **Switch**, **Interface**, **Temperature**, **Current**, **Power**, and **Voltage**.
3. You can use **Show last day** drop-down to filter the view by **Day**, **Week**, **Month**, and **Year**.
4. Click a fabric name to display the fabric health status on the right-side of the page.
5. Click the **Launch** icon on fabric window to navigate to the fabric overview page.

Custom Port Groups

Choose **SAN > Interfaces > Custom Port Groups** tab to view and create custom port groups.

The following table describes the fields that appear on **SAN > Interfaces > Custom Port Groups**.

Field	Description
Group Name	Specifies the port group name. Click the name to view the performance and configure the port group. For more information, see Viewing Performance of Custom Port Groups , on page 8 and Configuring Custom Port Groups, on page 9.
Devices	Specifies the number of devices.
Interfaces	Specifies the number of interfaces.

The following table describes the action items, in the **Actions** menu drop-down list, that appear on **SAN > Interfaces > Custom Port Groups**.

Action Item	Description
Create Port Group	Select a port group from the table, choose **Create Port Group**, provide a port group name, and click **Save & Exit** to create a custom port group.
Edit port group	Select a port group from the table and choose **Edit port group** to edit port group.
Delete	Select a port group from the table and choose **Delete** to delete the port group.

Viewing Performance of Custom Port Groups

Choose **SAN > Interfaces > Custom Port Groups** and click a port group name to view the performance of the port group.

The following table describes the fields that appear on the **Performance** tab of Custom Port Groups.

Field	Description
Device	Specifies the device name.
Connected To	Specifies where the interface is connected to.
Speed	Specifies the interface speed.
Rx/Tx	
Avg	Specifies the average receiving or transmitting speed.
Peak	Specifies the peak utilization of the receiving or transmitting speed.
Rx + Tx	Specifies the sum of Rx and Tx speeds.
Errors/Discards	
Avg	Specified the average of incoming errors or discards.
Peak	Specified the peak of incoming errors or discards.
Last Updated	Specifies when the information was last updated.

Use the **Show last day** menu drop-down list to filter the view by Day, Week, Month, and Year.

Configuring Custom Port Groups

Choose **SAN > Interfaces > Custom Port Groups**, click a port group name, and click the **Configuration** tab to configure the custom port group.

The following table describes the fields that appear on the **Configuration** tab of Custom Port Groups.

Field	Description
Device	Specifies the device name. Click the device name to display the device status on the right-side of the page.
Connected To	Specifies where the interface is connected to.
Description	Specifies the interface description.

The following table describes the action items, in the **Actions** menu drop-down list, that appear on the **Configuration** tab.

Action Item	Description
Add Interfaces	Choose **Add Interfaces** to add interfaces to the port group. In the Add Interfaces window, select a device and click **Next Step - Add Interfaces.** Select the interfaces that you want to add to the port group and click **Save & Exit**.

Action Item	Description
Delete	Select a port group from the table and choose **Delete** to delete the port group.