Statistics

This chapter has details about the statistics of the connections and components of the Cisco Nexus Dashboard Data Broker.

Beginning with Release 3.10.1, Cisco Nexus Data Broker (NDB) has been renamed to Cisco Nexus Dashboard Data Broker. However, some instances of NDB are present in this document, to correspond with the GUI, and installation folder structure. References of NDB/ Nexus Data Broker/ Nexus Dashboard Data Broker can be used interchangeably.

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Connections

The **Connections** tab displays a list of connections configured on the Nexus Dashboard Data Broker controller.

A table with the following details is displayed:

Column Name	Description
Connection	The connection name. This field is a hyperlink; click a **Connection** name to get more information about the connection. For related actions, see the Connections section.
Packet Count	The aggregate traffic volume shown in packets for the connection.

Filters

The **Filters** tab displays filters that are used in connections.

A table with the following details is displayed:

Column Name	Description
Filter	The filter name. This is hyperlink; click the **Filter** name for more details about the filter. For related actions, see the Filters section.
Packet Count	The aggregate traffic volume shown in packets for the filter.

Flows

The **Flows** tab displays device flows for NDB devices.

Click **Select Device** to select an NDB device for which the flow statistics will be fetched. If you want to fetch the flow statistics for another device, click **Change Device**.

A table with the following details is displayed:

Column Name	Description
In Port	The input port(s) from which the traffic is matched.
DL Src	The source MAC address to be matched for the incoming traffic.
DL Dst	The destination MAC address to be matched for the incoming traffic.
DL Type	The ethertype to be matched for the incoming traffic. For example, **IPv4** or **IPv6** is used for all IP traffic types.
DL VLAN	The VLAN ID to be matched for the incoming traffic.
VLAN PCP	The VLAN priority to be matched for the incoming traffic.
NW Src	The IPv4 or IPv6 source address for the incoming traffic.
NW Dst	The IPv4 or IPv6 destination address for the incoming traffic.
NW Proto	The network protocol to be matched for the incoming traffic. For example, "6" indicates the TCP protocol.
TP Src	The source port associated with the network protocol to be matched for the incoming traffic.

Column Name	Description
TP Dst	The destination port associated with the network protocol to be matched for the incoming traffic.
Packet Count	The aggregate traffic volume shown in packets that match the specified flow connection.

Input Ports

The **Input Ports** tab displays the packet count details for the input ports of the NDB devices.

A table with the following details is displayed:

Column Name	Description
Input Ports	The input port with the device name. Click the **Input Port** to get more details of the input port. For related actions, see the Input Portssection.
Packet Count	The aggregate traffic volume shown in packets for the input port.

TCAM Resource Utilization

The **TCAM Resource Utilization** tab displays TCAM resource utilization details for NDB devices.

A table with the following details is displayed:

Table 1: TCAM Resource Utilization

Column Name	Description
Device	The device name. This field is a hyperlink; click the **Device** name for more details of the device. For related actions, see the Devices section.
Utilization	The utilization pattern, indicated by colours. • Green—indicates that the TCAM utilization is optimum. • Orange—indicates that the TCAM utilization is within the range. • Red—indicates that the TCAM utilization is nearing the full limit.

Monitoring Tools

The **Monitoring Tools** tab displays the monitoring tool ports connected to the NDB controller.

A table with the following details is displayed:

Column Name	Description
Monitoring Tools	The monitoring tool name. This field is a hyperlink; click the monitoring tool name for more details. For related actions, see the Monitoring Tools section.
TX Packets	The number of packets transmitted by the monitoring tool port.

Ports

The **Ports** tab displays the statistics for ports of an NDB device.

Click **Select Device** to fetch the port details of the selected device. Click **Change Device** to select another device.

A table with the following details is displayed:

Column Name	Description
Port	The interface of the device for which the statistcs are displayed. This is hyperlink; click the port for more details.
Rx Pkts	The number of received packets on the port.
Tx Pkts	The number of transmitted packets on the port.
Rx Bytes	The number of received bytes on the port.
Tx Bytes	The number of transmitted bytes on the port.
Rx Rate (kbps)	The rate of receiving packets.
Tx Rate (kbps)	The rate of transmitting packets.
Rx Drops	The rate at which packets are dropped at the port (Rx).
Tx Drops	The rate at which packets are dropped at the port (Tx).
Rx Errs	Errors at the port while receiving packets.
Tx Errs	Errors at the port while transmitting packets.

Column Name	Description
Rx Frame Errs	Frame errors at the port while receiving packets.
Rx OverRu	Overrun errors at the port while receiving packets.

Click **Actions** > **Clear Ports** to clear the statistics data of the selected device.