



Fabric Management Commands

This module describes the Cisco IOS XR software commands used to monitor and control application-specific integrated circuit (ASIC) fabric queues for modular services cards .

To use commands of this module, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using any command, contact your AAA administrator for assistance.

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clear controller fabric statistics

To clear fabric plane statistics from the counters information table, use the **clear controller fabric statistics** command in administration EXEC mode.

clear controller fabric statistics plane [{*plane-id* | **all**}]

Syntax Description	<div> plane <i>plane-id</i> (Optional) The fabric plane and plane ID. Range is from 0 to 7. </div> <div> all (Optional) Specifies fabric statistics for all planes. </div>						
Command Default	Information for all planes is cleared.						
Command Modes	EXEC mode						
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>Release 2.0</td><td>This command was introduced.</td></tr> </table>	Release	Modification	Release 2.0	This command was introduced.		
Release	Modification						
Release 2.0	This command was introduced.						
Usage Guidelines	The clear controller fabric statistics command clears the fabric statistics for the specified fabric plane or all planes.						
Task ID	<table> <tr> <th>Task ID</th><th>Operations</th></tr> <tr> <td>root-system</td><td>read, write, execute</td></tr> <tr> <td>fabric</td><td>read, write</td></tr> </table>	Task ID	Operations	root-system	read, write, execute	fabric	read, write
Task ID	Operations						
root-system	read, write, execute						
fabric	read, write						
Examples	<p>The following example shows how to clear all fabric plane statistics from the router:</p> <pre>RP/0/RP0/CPU0:router# admin RP/0/RP0/CPU0:router(admin)# clear controller fabric statistics plane all</pre>						

clear controller fabricq statistics

On linecards, RPs and DRPs, the fabricq ASICs receive the cells from the fabric planes and reassembles them into packets. To clear the statistics on fabricq ASICs, use the **clear controller fabricq statistics** command in EXEC mode.

clear controller fabricq statistics [**instance** *asic_instance*] [**location** *node-id*]

Syntax Description

instance <i>asic_instance</i>	(Optional) Identifies the fabric queue instance whose ASIC statistics you want to clear. Range is from 0 to 3.
location <i>node-id</i>	(Optional) Identifies a node on which to clear ASIC statistics for a specific fabric queue, or for all fabric queues. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Default

The default is to enter the **clear controller fabricq statistics** command without any optional keyword arguments to clear ASIC statistics for all fabric queues on the router.

Command Modes

EXEC mode

Command History

Release	Modification
Release 2.0	This command was introduced.
Release 3.6.0	The <i>asic_instance</i> argument range of 1 to 3 was changed to 0 to 3.

Usage Guidelines

Only locations that contain a fabric queue ASIC can be specified for the **location** *node-id*.

This command is intended for use while performing special maintenance, test, or debugging procedures. It should not be necessary to use this command when fabric connectivity is performing normally.

Task ID

Task ID	Operations
root-system	execute
drivers	read, write

Examples

The following example shows how to clear ASIC statistics on all fabric queues on the node located in 0/1/CPU0:

```
RP/0/RP0/CPU0:router# clear controller fabricq statistics location 0/1/CPU0
```

The following example shows how to clear ASIC statistics for a specific fabric queue on all nodes that are installed in the router:

```
RP/0/RP0/CPU0:router# clear controller fabricq statistics instance 2
```

The following example shows how to clear ASIC statistics for a specific fabric queue on a specific node:

```
RP/0/RP0/CPU0:router# clear controller fabricq statistics instance 2 location 0/1/CPU0
```

clear controller ingressq statistics

To clear application-specific integrated circuit (ASIC) statics from the ingress fabric queue on a specific node, or on all nodes installed in the router, use the **clear controller ingressq statistics** command in EXEC mode.

clear controller ingressq statistics location *node-id*

Syntax Description	location <i>node-id</i> Identifies the node whose ASIC statistics you want to clear from the ingress fabric queue. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.	
Command Default	Enter the clear controller ingressq statistics command without the optional location <i>node-id</i> keyword and argument to clear the ASIC statistics from the ingress queues on all nodes that are installed in the router.	
Command Modes	EXEC mode	
Command History	Release	Modification
	Release 2.0	This command was introduced.
	Release 3.6.0	The location <i>node-id</i> keyword and argument were changed from optional to required.
Usage Guidelines	<p>Only locations that contain a fabric queue ASIC can be specified for the <i>node-id</i> argument.</p> <p>The clear controller ingressq statistics command is intended for use while performing special maintenance, test, or debugging procedures. You do not need to use this command when fabric connectivity is performing normally.</p>	
Task ID	Task ID	Operations
	drivers	read, write
Examples	<p>The following example shows how to use the clear controller ingressq statistics command to clear all ASIC statistics in the ingress fabric queue from the location 0/1/CPU0:</p> <pre>RP/0/RP0/CPU0:router# clear controller ingressq statistics location 0/1/CPU0</pre>	
Related Commands	Command	Description
	show controllers plim asic egress-channel bay	Displays statistical information for the ingress queue ASIC.

controllers fabric bundle port

To put a specific switch fabric bundle port into the shut down state, use the **controllers fabric bundle** command in Admin Configuration mode. To return the switch fabric bundle port to an up state, use the **no** form of this command.

controllers fabric bundle port *port-id* **shutdown**
no controllers fabric bundle port *port-id* **shutdown**

Syntax Description	<p><i>port-id</i> Identifies the switch fabric bundle port you want to put into the shutdown state. The <i>port-id</i> argument is entered in the <i>rack/slot/module/port</i> notation.</p> <p>shutdown Puts the specified bundle port into a shutdown state.</p>												
Command Default	No default behavior or values												
Command Modes	Admin Configuration mode												
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>Release 3.5.0</td><td>This command was introduced.</td></tr> <tr> <td>Release 3.6.0</td><td>No modification.</td></tr> <tr> <td>Release 3.7.0</td><td>No modification.</td></tr> <tr> <td>Release 3.8.0</td><td>No modification.</td></tr> <tr> <td>Release 3.9.0</td><td>No modification.</td></tr> </table>	Release	Modification	Release 3.5.0	This command was introduced.	Release 3.6.0	No modification.	Release 3.7.0	No modification.	Release 3.8.0	No modification.	Release 3.9.0	No modification.
Release	Modification												
Release 3.5.0	This command was introduced.												
Release 3.6.0	No modification.												
Release 3.7.0	No modification.												
Release 3.8.0	No modification.												
Release 3.9.0	No modification.												
Usage Guidelines	No specific guidelines impact the use of this command.												
Task ID	<table> <tr> <th>Task ID</th><th>Operations</th></tr> <tr> <td>fabric</td><td>read, write</td></tr> </table>	Task ID	Operations	fabric	read, write								
Task ID	Operations												
fabric	read, write												
Examples	<p>The following example shows put a switch fabric bundle port into the shut down state:</p> <pre>RP/0/RP0/CPU0:router# admin RP/0/RP0/CPU0:router(config)# configure RP/0/RP0/CPU0:router(admin-config)# controllers fabric bundle port 0/1/CPU0/10 shutdown</pre>												

controllers fabric plane oim

To configure optical interface module (OIM) fabric plane properties, use the **controllers fabric plane** command in Admin Configuration mode. To return the OIM fabric plane properties to the default configuration, use the **no** form of this command.

controllers fabric plane *plane-id* **oim** {**count** {**1** | **3**} | **width** {**1** | **2**} | **instance** *oim-instance* **location** {*node-id* | **all**}}

no controllers fabric plane *plane-id* **oim** {**count** {**1** | **3**} | **width** {**1** | **2**} | **instance** *oim-instance* **location** {*node-id* | **all**}}

Syntax Description	<i>plane-id</i>	Identifies the fabric plane. Range is from 0 to 7.
	count { 1 3 }	Configures the number of OIMs used in this plane. Enter 1 to configure all cables in the plane to connect to the same OIM. Enter 3 to configure the cables from each fabric card to connect to different OIMs.
	width { 1 2 }	Width of OIMs in the current fabric plane. Enter 1 to indicate a single-width OIM that covers one slot only. Enter 2 to indicate a dual-width OIM that covers two slots.
	instance { <i>oim-instance</i> }	Specifies the properties of a specific OIM. Range is from 0 to 2.
	location <i>node-id</i>	Identifies the node whose OIM fabric plane properties you want to configure. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
	location all	Configures the OIM fabric plane properties on all nodes installed in the router.
Command Default	No default behavior or values	
Command Modes	Admin Configuration mode	
Command History	Release	Modification
	Release 2.0	This command was introduced.
	Release 3.3.0	<ul style="list-style-type: none"> The topology keyword was removed from the controllers fabric plane command syntax. The oim , count , width , and instance keywords were added to the controllers fabric plane command syntax.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	fabric	read, write

Examples

The following example shows how to configure all cables in the fabric plane to connect to the same OIM:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# configure
RP/0/RP0/CPU0:router(admin-config)# controllers fabric plane 3 oim count 1
```

controllers fabric plane shutdown

To shut down the state of a fabric plane, use the **controllers fabric plane shutdown** command in Admin Configuration mode. To disable the state of a fabric plane, use the **no** form of this command.

controllers fabric plane *plane-id* shutdown

Syntax Description	<i>plane-id</i> Fabric plane identifier. Range is from 0 to 7.
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Command Default	The controller fabric plane is not shut down, and data continues to flow through the plane.
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Command Modes	Admin Configuration mode
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Command History	Release	Modification
	Release 2.0	This command was introduced.

Usage Guidelines	Use the controllers fabric plane shutdown command to perform a graceful shutdown of the fabric plane before a fabric reconfiguration or fabric plane migration. This ensures that data is not flowing through the plane.
-------------------------	---

Task ID	Task ID	Operations
	fabric	read, write

Examples	<p>The following example shows fabric plane 3 being shut down:</p> <pre>RP/0/RP0/CPU0:router# admin RP/0/RP0/CPU0:router(admin)# configure RP/0/RP0/CPU0:router(admin-config)# controllers fabric plane 3 shutdown</pre>
-----------------	--

controllers fabric rack

To put the rack into installation mode so that no traffic is sent over the switch fabric, use the **controllers fabric rack** command in Admin Configuration mode. To enable traffic to be sent over the switch fabric, use the **no** form of this command.

controllers fabric rack *rack_number* **install-mode**

Syntax Description	<i>rack_number</i> Rack number. Range is from 0 to 17.	
	install-mode Puts the specified rack into installation mode, so that no traffic is sent over the switch fabric.	
Command Default	No default behavior or values	
Command Modes	Admin Configuration mode	
Command History	Release	Modification
	Release 3.3.0	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	fabric	read, write
Examples	The following example shows how to put the rack into installation mode so that no traffic is sent over the switch fabric: RP/0/RP0/CPU0:router# admin RP/0/RP0/CPU0:router(config)# configure RP/0/RP0/CPU0:router(admin-config)# controllers fabric rack 1 install-mode	

controllers fabric statistics collection

To enable the collection of fabric statistics data and configure the interval at which statistics are collected, use the **controllers fabric statistics collection** command in Admin Configuration mode. To return the system to the default interval setting, use the **no** form of this command.

controllers fabric statistics collection {**control** [**refresh**] | **interval** *seconds*}

Syntax Description	control	Enables fabric statistics data collection.
	refresh	(Optional) Causes the system to collect data immediately.
	interval <i>seconds</i>	Specifies the interval, in seconds, between collection of data for fabric statistics. Range is from 10 to 180 seconds. Default is 30 seconds.

Command Default Control of fabric statistics data collection = enabled
Interval= 30 seconds.

Command Modes Admin Configuration mode

Command History	Release	Modification
	Release 2.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	fabric	read, write

Examples

The following example shows statistic data collection on the fabric being disabled:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# configure
RP/0/RP0/CPU0:router(admin-config)# controllers fabric statistics collection control disable
```

show controllers fabric bundle

To display fabric card bundle information, use the **show controllers fabric bundle** command in Admin EXEC mode.

show controllers fabric bundle *{node-id [{brief|detail}]|all [{brief|detail}]|port port-id [{brief|detail|statistics}]|summary}*

Syntax Description	<i>node-id</i>	Identifies a node whose fabric bundle information you want to display. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. Follow the <i>node-id</i> argument with one of the following optional keywords to display the data a specific format:
	brief	(Optional) Displays brief information about the specified fabric bundle port or ports. This is the default.
	detail	(Optional) Displays detailed information about the specified fabric bundle port or ports.
	all	Displays bundle information for all fabric bundles. Follow the all keyword with one of the following optional keywords to display the data in a specific format: <ul style="list-style-type: none"> • brief—Displays brief information about the fabric bundles. • detail —Displays detailed information about the fabric bundles.
	port port-id	Identifies a port whose fabric bundle information you want to display. The <i>port-id</i> argument is entered in the <i>rack/slot/module/port</i> notation. Follow the <i>port-id</i> argument with one of the following optional keywords to display the data a specific format: <ul style="list-style-type: none"> • brief—Displays brief information about the fabric bundle. • detail —Displays detailed information about the fabric bundle. • statistics —Displays fabric bundle statistics for the specified port.
	statistics	Displays fabric bundle statistics.
	summary	Displays summarized fabric bundle information.
Command Default	Information is displayed for all fabric bundle ports on the router.	
Command Modes	Admin EXEC mode	
Command History	Release	Modification
	Release 3.3.0	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	

Task ID	Task ID	Operations
	fabric	read

Examples

The following is sample output from the `show controllers fabric bundle` command:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric bundle ?

WORD      Bundle location <Rack>/<Slot>/<Module>/<Port#>
all        Show all fabric bundle ports.
port       Fabric bundle port option
summary    Show summary of bundle data
```

show controllers fabric connectivity

To display controller fabric connectivity information, use the **show controllers fabric connectivity** command in Admin EXEC mode.

show controllers fabric connectivity {*all*|*node-id*} [{*brief*|*detail*}]

Syntax Description	all	Specifies all controller fabric ports.
	<i>node id</i>	Specifies the fabric port associated with the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
	brief	(Optional) Specifies brief information about controller fabric connectivity. This is the default.
	detail	(Optional) Specifies detailed information about controller fabric connectivity.
Command Default	Brief information about controller fabric connectivity is displayed.	
Command Modes	Admin EXEC mode	
Command History	Release	Modification
	Release 2.0	This command was introduced.
Usage Guidelines	Use the show controllers fabric connectivity command to monitor a modular services card as it sends data to the fabric or receives data from the fabric.	
Task ID	Task ID	Operations
	fabric	read

Examples

The following is sample output from the **show controllers fabric connectivity** command that displays fabric connectivity information in brief form for all resources:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric connectivity all brief
```

Card Percent R/S/M Uptime	In Use	Tx Planes 01234567	Rx Planes 01234567	Monitored For (s)	Total Uptime (s)
0/2/CPU0 100.0000	1	.1.....	.1.....	20913	20913
0/RP0/CPU0	1	.1.....	.1.....	20913	20913

The following is sample output from the **show controllers fabric connectivity** command that displays detailed fabric connectivity information for all resources:

```
RP/0/RP0/CPU0:router(admin)# show controllers fabric connectivity all
```

Card R/S/M	In Use	Tx Planes 01234567	Rx Planes 01234567	Monitored For (s)	Total Uptime (s)	Percent Uptime
0/1/CPU0	1	.1.....	.1.....	8561	8561	100.0000
0/2/CPU0	1	.1.....	.1.....	8561	8561	100.0000
0/RP1/CPU0	1	.1.....	.1.....	8561	8561	100.0000

The following is sample output from the **show controllers fabric connectivity** command that displays fabric connectivity information for the modular services card on node 0/0/CPU0:

```
RP/0/RP0/CPU0:router# admin
```

```
RP/0/RP0/CPU0:router# show controller fabric connectivity 0/0/CPU0
```

Card R/S/M	In Use	Tx Planes 01234567	Rx Planes 01234567	Monitored For (s)	Total Uptime (s)	Percent Uptime
0/0/CPU0	1	.1.....	.1.....	8805	8805	100.0000

This table describes the significant fields shown in the display.

Table 1: show controllers fabric connectivity Field Descriptions

Field	Description
Card R/S/M	Identifies the fabric card, in the format <i>rack/slot/module</i> .
In Use	Indicates the number of fabric ports that are in use on the card.
Tx Planes	Indicates activity on the transmit fabric plane.
Rx Planes	Indicates activity on the receive fabric plane.
Monitored For (s)	Elapsed time in seconds since monitoring began.
Total Uptime	Total uptime expressed in seconds.
Percent Uptime	Percentage of time the card has been up since monitoring began.

show controllers fabric driver instance summary

To obtain information about a specific Switch Fabric Element (SFE) ASIC on a particular board, use the **show controllers fabric driver instance summary** command in Admin EXEC mode.

show controller fabric driver instance asic_instance {backpressure | block | link-info | summary}
location node-id

Syntax Description	
instance <i>asic_instance</i>	Specifies ASIC instance. The range is from 0 to 4294967295.
backpressure	Displays detailed information for fabric back-pressure.
block	Displays detailed information for ASIC block.
link-info	Displays information for the ASIC transmit (Tx) and receiver (Rx) link port.
summary	Displays summarized information about all fabric queue ASICs in the system.
location <i>node</i>	Displays information for the fabric queue ASICs on a particular node.
	Note Use the show platform command to see a list of all nodes currently installed in your system.

Command Default No default behavior or values

Command Modes Admin EXEC mode

Command History	Release	Modification
	Release 3.2	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	fabric	read

Examples

The following example shows how to obtain information about an SFE ASIC on a particular board from the router:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric driver instance 5 summary location
0/SM0/SP
```

```
-----
s3/0/SM0/SP/1 Summary :
-----
```

show controllers fabric driver instance summary

Node ID:0/SM0/SP

Chip ID	: 0x2024E049	PLD Version	: 0000001E
Top Interrupt Status	: 0x00000000	Top Interrupt Enable	: 0000003F
Oper Status	: UP	Enable Status	: ENABLE

show controllers fabric fgid resource

To display information about the fabric resources that are allocated to specific secure domain router (SDR) fabric group IDs (FGIDs), use the **show controllers fabric fgid resource** command in Admin EXEC mode.

show controllers fabric fgid resource {**all** | **sdr Owner** {**all** | **application** {**CLI** | **GSP** | **LPTS**} **id fabric_fgid** [**elements number_of_fgids**]}}

Syntax Description	all	Displays FGID resource information for all SDRs on the current system.
	sdr Owner	Specifies the owner SDR.
	all all	Displays information for all resources allocated to the specified SDRs.
	application	Displays information for a specific resource allocated to the owner SDRs. Follow the sdr Owner application keywords with one of the following keywords to specify a particular resource application: <ul style="list-style-type: none"> • CLI • GSP • LPTS
	CLI	Displays command-line interface (CLI) information for the owner SDR.
	GSP	Displays Gateway Service Protocol (GSP) information for the owner SDR.
	LPTS	Displays Local Packet Transport Services (LPTS) information for the owner SDR.
	id fabric_fgid	Fabric FGID whose SDR resource information you want to display. Replace with an FGID. Range is from 0 to 1000000
	elements number_of_fgids	(Optional) Number of fabric FGIDs to display in the command output. Replace the <i>number_of_fgids arguments</i> with the number of FGIDs to list in the command output. Range is from 1 through 1000000.

Command Default No default behavior or values

Command Modes Admin EXEC mode

Command History	Release	Modification
	Release 3.4.0	This command was introduced.

Usage Guidelines Use the **show controllers fabric fgid resource** command to verify the multicast resource ID for the fabric card multicast bit set.

Task ID

Task Operations
ID

fabric read

Examples

The following example shows sample output from the **show controllers fabric fgid resource** command. In this example, LPTS information is displayed for the SDR owner FGID 1000:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric fgid resource sdr Owner application
lpts id 1000 elements 1
```

```
=====
Displaying FGID Info for:
SDR: Owner APPLICATION : LPTS
**** No FGID's allocated ****
RP/0/RP0/CPU0:Pl_CRS-8(admin)#show controllers fabric fgid resource sdr Owner $
```

```
=====
Displaying FGID Info for:
SDR: Owner APPLICATION : LPTS
**** No FGID's allocated ****
```

The following example shows sample output from the **show controllers fabric fgid resource** command. In this example, fabric resource information is displayed for all SDRs in the system:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric fgid resource all
```

```
=====
Displaying FGID Info for:
SDR: Owner APPLICATION : CLI
**** No FGID's allocated ****
```

```
=====
Displaying FGID Info for:
SDR: Owner APPLICATION : GSP
1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033
1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043
1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053
1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063
1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073
1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083
1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093
1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103
1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113
1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123
1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133
1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143
1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153
1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163
1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173
```

show controllers fabric fgid statistics

To display resource statistical information for the fabric group ID (FGID), use the **show controllers fabric fgid statistics** command in Admin EXEC mode.

show controllers fabric fgid statistics {all | pool | sdr | system} [{brief | detail}]

Syntax Description	all	Specifies all FGID resource statistical information for the logical router and FGID resource pools.
	sdr	Specifies FGID resource statistics about the secure domain router (SDR).
	pool	Specifies FGID statistical information about the resource pool.
	system	Specifies FGID resource statistics for the entire physical router.
	brief	(Optional) Specifies brief information about FGIDs. This is the default.
	detail	(Optional) Specifies detailed information about FGIDs.
Command Default	Brief information is displayed.	
Command Modes	Admin EXEC mode	
Command History	Release	Modification
	Release 2.0	This command was introduced.
Usage Guidelines	Use the show controllers fabric fgid statistics command to monitor FGID resource usage based on a system, pool, or client view.	
Task ID	Task ID	Operations
	fabric	read
	root-system	read, execute

Examples

The following is sample output from the **show controllers fabric fgid statistics** command that displays resource statistics for the fabric FGID in detailed form with all resources activated:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric fgid statistics all detail

Fabric FGID Resource Statistics Information:

System wide Fabric multicast resource statistics:

    Total number of FGIDs in the system is 1000000
    Current number of InUse FGIDs in the system is 500
```

show controllers fabric fgid statistics

High Water Mark of InUse FGIDs in the system is 500

Per SDR basis Fabric multicast resource statistics:

Secure Domain Router Name is Owner
InUse FGIDs is 500
High Water Mark InUse FGIDs is 500

Per client basis FGID resource utilization:

	Appl Name	Appl ID	Pool ID	Current InUse FGIDs	HighWater Mark InUse FGIDs
	CLI	0	2	0	0
	LPTS	1	1	0	0
	GSP	2	0	500	500

Per Pool basis Fabric multicast resource statistics:

Pool Identifier is 0
Pool Name is GSP
Pool type is Dedicated
The starting FGID of this pool is 1024
Total FGIDs of this pool is 10240
InUse FGIDs of this pool is 500
High Water Mark InUse FGIDs of this pool is 500

Pool Identifier is 1
Pool Name is LPTS
Pool type is Dedicated
The starting FGID of this pool is 11264
Total FGIDs of this pool is 32768
InUse FGIDs of this pool is 0
High Water Mark InUse FGIDs of this pool is 0

Pool Identifier is 2
Pool Name is COMMON
Pool type is Shared
The starting FGID of this pool is 44032
Total FGIDs of this pool is 955968
InUse FGIDs of this pool is 0
High Water Mark InUse FGIDs of this pool is 0

This table describes the significant fields shown in the display.

Table 2: show controllers fabric fgid statistics Field Descriptions

Field	Description
Total number of FGIDs in the system	Total number of fabric FGIDs in the system.
Current number of Inused FGIDs in the system	Total number of fabric FGIDs in use in the system.
High Water Mark of Inused FGIDs in the system	Number of in-use fabric FGIDs at the highest point within the system.
Secure Domain Router Name	Name of the SDR.
Inused FGIDs	Inused (in-use) fabric FGID.

Field	Description
High Water Mark inused FGIDs	Number of inused (in-use) FGIDs since monitoring started.
Appl Name	Application name.
Appl ID	Application ID.
Pool ID	Pool ID.
Current InUsed FGIDs	Current number of inused (in-use) FGIDs.
Pool Identifier	Group pool identifier number.
Pool Name	Group pool name.
Pool type	Group pool type.
Total FGIDs of this pool	Number of FGIDs in the pool.
Inused FGIDs of this pool	Number of FGIDs inused (in-use) in the pool.
High Water Mark inused FGIDs of this pool	Number of FGIDs in the pool since the start of monitoring.

show controllers fabric fsdb-pla rack all

To display plane availability status information for all racks in the system, use the **show controllers fabric fsdb-pla rack all** command in Admin EXEC mode.

show controllers fabric fsdb-pla rack all

Syntax Description	rack Specifies the rack number. Range varies from 0-48.				
Command Default	No default behavior or values				
Command Modes	Admin EXEC mode				
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>Release 3.3.1</td><td>This command was introduced.</td></tr> </table>	Release	Modification	Release 3.3.1	This command was introduced.
Release	Modification				
Release 3.3.1	This command was introduced.				
Usage Guidelines	Use the show controllers fabric fsdb-pla rack all command to verify line card connectivity to the fabric planes.				
Task ID	<table> <tr> <th>Task ID</th><th>Operations</th></tr> <tr> <td>fabric</td><td>read</td></tr> </table>	Task ID	Operations	fabric	read
Task ID	Operations				
fabric	read				
Examples	<p>The following example shows sample output from the show controllers fabric fsdb-pla rack all command:</p> <pre>RP/0/RP0/CPU0:router# admin RP/0/RP0/CPU0:router(admin)# show controllers fabric fsdb-pla rack all Rack 0: ===== SrcGrp:0 01234567 Multicast Mask 11111111 Unicast Mask 11111111 Destination S3-Fabricq Reachability Mask Downloaded Mask Address Mask SrcGrp:0 SrcGrp:0 01234567 01234567 01234567 ----- 4 (0/1/CPU0) 11111111 11111111 11111111 5 (0/1/CPU0) 11111111 11111111 11111111 16 (0/4/CPU0) 11111111 11111111 11111111 17 (0/4/CPU1) 11111111 11111111 11111111 24 (0/6/CPU0) 11111111 11111111 11111111 25 (0/6/CPU0) 11111111 11111111 11111111 30 (0/RP0/CPU0) 11111111 11111111 11111111</pre>				

31 (0/RP1/CPU0) 11111111 11111111 11111111 :

show controllers fabric link port

To display link information for a specific fabric port, use the **show controllers fabric link port** command in Admin EXEC mode.

show controllers fabric link port {fabricqrx | ingressqtx | s1ro | s1rx | s1tx | s2rx | s2tx | s3rx | s3tx} {port | all} [{brief | detail}]

Syntax Description

fabricqrx	Displays information for the fabric queue receive port.
ingressqtx	Displays information for the ingress queue transmit port.
s1ro	Displays information for the S1 Out-of-Band receive port. The out of band ports connect the fabric planes together so that the flow control information collected within a fabric plane is distributed across all fabric planes. This is essential in controlling fabric congestion and the congestion location within fabric.
s1rx	Displays information for the Stage 1 (S1) receive port. The S1 receive port distributes incoming traffic.
s1tx	Displays information for the Stage 1 (S1) transmit port. The S1 transmit port distributes outgoing traffic.
s2rx	Displays information for the Stage 2 (S2) receive port. The S2 receive port forwards incoming cells to Stage 3 (S3) port.
s2tx	Displays information for the Stage 2 (S2) transmit port. The S2 transmit port forwards outgoing cells to Stage 3 (S3) transmit port.
s3rx	Displays information about S3 receive port. The S3 receive port performs switching for incoming traffic.
s3tx	Displays information about S3 transmit port. The S3 receive port performs switching for outgoing traffic.
port	Specifies the port whose fabric link information you want to display. Replace the <i>port</i> argument with a port identifier. The <i>port</i> argument naming notation is in the <i>rack/slot/module/asic/port</i> format. Note A slash between values is required as part of the <i>port</i> naming notation.
all	Displays fabric link information for all specified ports.
brief	(Optional) Displays summarized fabric link information.
detail	(Optional) Specifies that the command output includes detailed fabric link information.

Command Default

Enter the **show controllers fabric link port** command without specifying any of the optional parameters to display summarized fabric link information. This is the same information that is displayed when you include the **brief** option in the **show controllers fabric link port** command string.

Command Modes Admin EXEC mode

Command History

Release	Modification
Release 3.2	This command was introduced.

Usage Guidelines Use the **show controllers fabric link port** command to check the health of fabric internal connections.

Task ID

Task ID	Operations
fabric	read

Examples

The following example shows partial sample output from the **show controllers fabric link port** command for all S1RO ports in the system:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric link port s1ro all
```

```
Flags: P - plane admin down, p - plane oper down
C - card admin down, c - card oper down
L - link port admin down, l - linkport oper down
A - asic admin down, a - asic oper down
B - bundle port admin Down, b - bundle port oper down
I - bundle admin down, i - bundle oper down
N - node admin down, n - node down
o - other end of link down d - data down
f - failed component downstream
m - plane multicast down
Sfe Port Admin Oper Down Other Near-end Far-end
R/S/M/A/P State State Flags End Bport Bport
-----
0/SM0/SP/0/0 UP UP 0/SM0/SP/1/15
0/SM0/SP/0/1 UP UP 0/SM1/SP/0/33
0/SM0/SP/0/2 UP UP 0/SM1/SP/1/33
0/SM0/SP/0/3 UP UP 0/SM2/SP/0/33
0/SM0/SP/0/4 UP UP 0/SM2/SP/1/33
0/SM0/SP/0/5 UP UP 0/SM3/SP/0/33
0/SM0/SP/0/6 UP UP 0/SM3/SP/1/33
0/SM0/SP/1/0 UP UP 0/SM0/SP/0/15
0/SM0/SP/1/1 UP DOWN l Unused
0/SM0/SP/1/2 UP UP Unused
0/SM0/SP/1/3 UP DOWN l Unused
0/SM0/SP/1/4 UP DOWN l Unused
0/SM0/SP/1/5 UP DOWN l Unused
0/SM0/SP/1/6 UP DOWN l Unused
0/SM1/SP/0/0 UP UP 0/SM1/SP/1/15
0/SM1/SP/0/1 UP UP 0/SM0/SP/0/33
0/SM1/SP/0/2 UP UP 0/SM0/SP/1/33
0/SM1/SP/0/3 UP UP 0/SM2/SP/0/51
--More--
```

The following example shows partial sample output from the **show controllers fabric link port** command with the **detail** keyword included in the command string:

show controllers fabric link port

```

RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric link port fabricqrx all detail

Flags: P - plane admin down, p - plane oper down
C - card admin down, c - card oper down
L - link port admin down, l - linkport oper down
A - asic admin down, a - asic oper down
B - bundle port admin Down, b - bundle port oper down
I - bundle admin down, i - bundle oper down
N - node admin down, n - node down
o - other end of link down d - data down
f - failed component downstream
m - plane multicast down

Sfe Port Admin Oper Down Sfe BP Port BP Other
R/S/M/A/P State State Flags Role Role End
-----
0/1/CPU0/0/0 UP UP A A 0/SM0/SP/0/15
-----
Link Type Pin1 Name Pin2 Name
-----
CHASSIS G5 A4

Sfe Port Admin Oper Down Sfe BP Port BP Other
R/S/M/A/P State State Flags Role Role End
-----
0/1/CPU0/0/1 UP UP A B 0/SM0/SP/0/39
-----
Link Type Pin1 Name Pin2 Name
-----
CHASSIS G19 A34

Sfe Port Admin Oper Down Sfe BP Port BP Other
R/S/M/A/P State State Flags Role Role End
-----
0/1/CPU0/0/2 UP UP A A 0/SM0/SP/0/14
--More--

```

show controllers fabric plane

To display system fabric plane information, use the **show controllers fabric plane** command in Admin EXEC mode.

show controllers fabric plane *{plane-id | all}* [**statistics**] [{**brief** | **detail**}]

Syntax Description	<i>plane-id</i> Plane number. Range is from 0 to 7.
all	Specifies that all information about system fabric planes is displayed.
statistics	(Optional) Specifies statistical information for cell activity within the plane.
brief	(Optional) Specifies brief information about the system fabric plane. This is the default.
detail	(Optional) Specifies detailed information about the system fabric plane.

Command Default Brief information is displayed

Command Modes Admin EXEC mode

Command History	Release	Modification
	Release 2.0	This command was introduced.

Usage Guidelines Use the **show controllers fabric plane** command to monitor the fabric plane status, and the cell traffic and error statistics to or from the fabric plane.

Task ID	Task ID	Operations
	root-system	read, write

Examples

The following is sample output from the **show controllers fabric plane** command that displays system fabric plane information from all fabric planes:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric plane all
```

Plane Id	Admin State	Oper State	Down Flags	Total Bundles	Down Bundles
0	UP	DOWN	p	0	0
1	UP	UP		0	0
2	UP	DOWN	p	0	0
3	UP	DOWN	p	0	0
4	UP	DOWN	p	0	0
5	UP	DOWN	p	0	0
6	UP	DOWN	p	0	0

```
7      UP      DOWN      p      0      0
```

The following is sample output from the **show controllers fabric plane** command that displays system fabric plane statistics from fabric plane 1 in brief form:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric plane 1 statistics brief
```

Plane	In Cells	Out Cells	CE Cells	UCE Cells	PE Cells
1	0	0	0	0	0

The following is sample output from the **show controllers fabric plane** command that displays system fabric plane statistics from fabric plane 1 in detailed form:

```
RP/0/RP0/CPU0:router(admin)# show controllers fabric plane 1 statistics detail
```

The fabric plane number is 1

- Total number of providers for the statistics: 0
- Total received data cells: 0
- Total transmitted data cells: 0
- Total received correctable errored cells: 0
- Total received uncorrectable errored cells: 0
- Total received parity error cells: 0
- Total unicast lost cells: 0
- Total multicast lost cells: 0
- Last clearing of "show controller fabric plane" counters never

The following is sample output from the **show controllers fabric plane** command that displays system fabric plane statistics from the fabric for all planes in detailed form:

```
RP/0/RP0/CPU0:router(admin)# show controllers fabric plane all statistics detail
```

The fabric plane number is 0

- Total number of providers for the statistics: 0
- Total received data cells: 0
- Total transmitted data cells: 0
- Total received correctable errored cells: 0
- Total received uncorrectable errored cells: 0
- Total received parity error cells: 0
- Total unicast lost cells: 0
- Total multicast lost cells: 0
- Last clearing of "show controller fabric plane" counters never

The fabric plane number is 1

- Total number of providers for the statistics: 0
- Total received data cells: 0
- Total transmitted data cells: 0
- Total received correctable errored cells: 0
- Total received uncorrectable errored cells: 0
- Total received parity error cells: 0
- Total unicast lost cells: 0
- Total multicast lost cells: 0
- Last clearing of "show controller fabric plane" counters never

The fabric plane number is 2

- Total number of providers for the statistics: 0
- Total received data cells: 0

```

Total transmitted data cells: 0
Total received correctable errored cells: 0
Total received uncorrectable errored cells: 0
Total received parity error cells: 0
Total unicast lost cells: 0
Total multicast lost cells: 0
Last clearing of "show controller fabric plane" counters never

```

```

The fabric plane number is 3
Total number of providers for the statistics: 0
Total received data cells: 0
Total transmitted data cells: 0
Total received correctable errored cells: 0
Total received uncorrectable errored cells: 0
Total received parity error cells: 0
Total unicast lost cells: 0
Total multicast lost cells: 0
Last clearing of "show controller fabric plane" counters never

```

```

The fabric plane number is 4
Total number of providers for the statistics: 0
Total received data cells: 0
Total transmitted data cells: 0
Total received correctable errored cells: 0
Total received uncorrectable errored cells: 0
Total received parity error cells: 0
Total unicast lost cells: 0
Total multicast lost cells: 0
Last clearing of "show controller fabric plane" counters never

```

```

The fabric plane number is 5
Total number of providers for the statistics: 0
Total received data cells: 0
Total transmitted data cells: 0
Total received correctable errored cells: 0
Total received uncorrectable errored cells: 0
Total received parity error cells: 0
Total unicast lost cells: 0
Total multicast lost cells: 0
Last clearing of "show controller fabric plane" counters never

```

This table describes the significant fields shown in the display.

Table 3: show controllers fabric plane Field Descriptions

Field	Description
The fabric plane number is 1	Fabric plane ID number.
Total number of providers for the statistics	Number of providers (sources) from which statistics were extracted.
Total received data cells	Total of data cells that have been received.
Total received correctable errored cells	Total number of cells with errors that can be corrected.
Total received uncorrectable errored cells	Total number of cells with errors that cannot be corrected.
Total received parity error cells	Total number of cells that have parity errors.
Total unicast lost cells	Number of lost unicast cells.

Field	Description
Last clearing of “show controller fabric plane” counters	Indicates when the fabric plane counters were last cleared.

show controllers fabric rack all

To display information about the fabric racks in the current system, use the **show controllers fabric rack all** command in Admin EXEC mode.

show controllers fabric rack all [{**brief** | **detail**}]

Syntax Description	<p>brief (Optional) Displays summarized fabric rack information.</p> <p>detail (Optional) Specifies that the command output includes detailed fabric rack information.</p>				
Command Default	Use the show controllers fabric rack all command without including any of the optional syntax to display detailed information about all fabric card racks in the current system.				
Command Modes	Admin EXEC mode				
Command History	<table> <tr> <th data-bbox="386 810 532 842">Release</th><th data-bbox="548 810 683 842">Modification</th></tr> <tr> <td data-bbox="386 873 532 894">Release 3.3.0</td><td data-bbox="548 873 748 926">This command was introduced.</td></tr> </table>	Release	Modification	Release 3.3.0	This command was introduced.
Release	Modification				
Release 3.3.0	This command was introduced.				
Usage Guidelines	Use the show controllers fabric rack all command to display fabric rack topology information.				
Task ID	<table> <tr> <th data-bbox="386 1052 456 1115">Task ID</th><th data-bbox="472 1052 578 1083">Operations</th></tr> <tr> <td data-bbox="386 1146 456 1167">fabric</td><td data-bbox="472 1146 516 1167">read</td></tr> </table>	Task ID	Operations	fabric	read
Task ID	Operations				
fabric	read				

Examples

The following example shows sample output from the **show controllers fabric rack all** command:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric rack all

Rack Rack Server
Num Status Status
----
0 NORMAL PRESENTRP/0/RP0/CPU0:router(admin)#
```

show controllers fabric sfe

To display information about a specific switch fabric element, use the **show controllers fabric sfe** command in Admin EXEC mode.

show controllers fabric sfe {**fabricq** | **ingressq** | **s1** | **s2** | **s3**} {*port* | **all**} [{**backpressure** | **brief** | **detail**}]

Syntax Description	fabricq Displays information from the fabric queue for the switching fabric element.	
	ingressq Displays information from the ingress queue for the switching fabric element.	
	s1 Displays information about Stage 1 (S1) switch fabric elements. S1 elements distribute traffic.	
	s2 Displays information about Stage 2 (S2) switch fabric elements. S2 elements forward cells to Stage 3 (S3) elements.	
	s3 Displays information about S3 switch fabric elements. S3 elements perform switching.	
	<i>port</i> Specifies the port that owns the switch fabric element you want to display. Replace the <i>port</i> argument with the port number, in the <i>rack/slot/module/ASIC/port</i> format. Note A slash between values is required as part of the <i>port argument</i> notation.	
	all Displays information about the switch fabric elements on all ports in the system.	
	backpressure (Optional) Displays back-pressure information for the specified switch fabric elements.	
	brief (Optional) Displays summarized information for the specified switch fabric elements.	
	detail (Optional) Includes detailed information about the specified switch fabric elements in the command output.	
Command Default	Use the show controllers fabric sfe command without specifying any of the optional parameters to display detailed information about a specified switch fabric element.	
Command Modes	Admin EXEC mode	
Command History	Release	Modification
	Release 3.2	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	fabric	read

Examples

The following example shows sample output from the **show controllers fabric sfe** command:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabric sfe fabricq all

Flags: P - plane admin down, p - plane oper down
C - card admin down, c - card oper down
L - link port admin down, l - linkport oper down
A - asic admin down, a - asic oper down
B - bundle port admin Down, b - bundle port oper down
I - bundle admin down, i - bundle oper down
N - node admin down, n - node down
o - other end of link down d - data down
f - failed component downstream
m - plane multicast down

Sfe Admin Oper
R/S/M/A State State
-----
0/1/CPU0/0 UP UP
0/1/CPU0/1 UP UP
0/3/CPU0/0 UP UP
0/3/CPU0/1 UP UP
0/6/CPU0/0 UP UP
0/6/CPU0/1 UP UP
0/RP0/CPU0/0 UP UP
0/RP1/CPU0/0 UP UP
```

show controllers fabricq barriers

To verify that barriers are flowing through the fabricq ASICs, use the **show controllers fabricq barriers** command in Admin EXEC mode. If no optional parameter is passed, this command displays the aggregated barrier information for all ASIC instances on all locations.

show controllers fabricq barriers [{aggrbarr | illegal-state | inputbarr}] [instance *asic_instance*] [location *node-id*]

Syntax Description	aggrbarr	(Optional) Displays aggregated barrier information. Command reads the number of aggregated barrier transitions on this node during a 1 second window for all barrier types, that is, unicast low priority (UCL), unicast high priority (UCH), multicast low priority (MCL) and multicast high priority (MCH).
	Note	A count of 0x00000000 at both times for any barrier type indicates a problem with the barrier flow.
	illegal-state	(Optional) Displays the number of illegal barrier states seen on all the input links since the registers were cleared last.
	inputbarr	(Optional) Displays the barrier state that is being received on all links at the instant the command is executed.
	<i>asic_instance</i>	(Optional) Displays barrier information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose barrier information you want to display.
	location <i>node-id</i>	(Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Default No default behavior or values

Command Modes Admin EXEC mode

Command History	Release	Modification
	Release 3.2	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	root-system	read, write

Examples The following is detailed sample output from the **show controllers fabricq barriers** command for location 0/1/CPU0:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router (admin)#show controllers fabricq barriers aggrbarr location 0/1/CPU0
```

```
Location          : 0/1/CPU0
Asic Instance     : 0
Fabric Destination Address : 4
```

```
-----
Barrier Config      : 0x6
Barrier Timeout Threshold : 0x4830
Barrier Mask        : 0
Interrupt Mask      : 0x1ffffe
Error Cause         : 0
-----
```

```
Time      UCH      UCL      MCH      MCL
1210200107 0x00000000 0x00000000 0x00000000 0x00000000.
1210200109 0x00007A9F 0x00007AAA 0x00007AA8 0x00007ABF.
```

```
-----
Location          : 0/1/CPU0
Asic Instance     : 1
Fabric Destination Address : 5
-----
```

```
Barrier Config      : 0x6
Barrier Timeout Threshold : 0x4830
Barrier Mask        : 0
Interrupt Mask      : 0x1ffffe
Error Cause         : 0
-----
```

```
Time      UCH      UCL      MCH      MCL
1210200109 0x00000000 0x00000000 0x00000000 0x00000000.
1210200110 0x00007AA7 0x00007A8C 0x00007A8A 0x00007A85.
```

show controllers fabricq block

To display information about the current usage of packet buffers of various sizes, use the **show controllers fabricq block** command in Admin EXEC mode.

show controllers fabricq block {**errors** | **registers** | **summary**} [*type instance*] [**location** *node-id*]

Syntax Description

errors	Displays information about block errors.
registers	Displays information about block registers.
summary	Displays block summary information.
<i>type instance</i>	Physical interface or a virtual interface. Note Use the show interfaces command to see a list of all possible interfaces currently configured on the router.
location <i>node-id</i>	(Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Default

No default behavior or values

Command Modes

Admin EXEC mode

Command History

Release	Modification
Release 3.2	This command was introduced.
Release 3.7.0	The freequeue-manager keyword was added to this command.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
root-system	read, write

Examples

The following is detailed sample output from the **show controllers fabricq block** command:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# sh controllers fabricq block summary freequeue-manager location
0/1/CPU$

Location: 0/1/CPU0
Asic instance: 0
Vital Bump-up 'Enabled', Non-vital Bump-up 'Enabled'
+-----+
| Buff | Enabl | Flush |          Buffer References          |          |
| Size |      |      | Total | Current | LowWtMrk | Corruptd | VitalThr | Occupancy |
+-----+
```

```

+-----+
120 Yes No 527916 527880 527874 0 5279 30e42022
240 Yes No 77136 77100 77088 0 771 40e41023
480 Yes No 77136 77100 77094 0 771 40e42022
960 Yes No 133170 133134 133128 0 1331 30e42022
1920 Yes No 107400 107364 107358 0 1073 30e42022
3840 Yes No 19374 19338 19332 0 193 30e42022
7680 Yes No 19374 19338 19332 0 193 30e40024
15360 Yes No 21516 21480 21468 0 215 40e41023

```

Location: 0/1/CPU0

Asic instance: 1

Vital Bump-up 'Enabled', Non-vital Bump-up 'Enabled'

```

+-----+
|Buff |Enabl|Flush|          Buffer References          |
|Size |     |     | Total | Current |LowWtMrk |Corruptd |VitalThr |Occupancy |
+-----+
120 Yes No 527916 527880 527874 0 5279 30e42022
240 Yes No 77136 77100 77094 0 771 30e41023
480 Yes No 77136 77100 77094 0 771 40e42022
960 Yes No 133170 133134 133128 0 1331 30e40024
1920 Yes No 107400 107364 107358 0 1073 30e42022
3840 Yes No 19374 19338 19338 0 193 00240024
7680 Yes No 19374 19338 19338 0 193 00240024
15360 Yes No 21516 21480 21474 0 215 30e40024

```

show controllers fabricq eio

To display the current state of all the elastic I/O (EIO) information from fabric ASICs to the neighboring ASICs--PSE, Ingress, and FIA, use the **show controllers fabricq eio** command in Admin EXEC mode.

show controllers fabricq eio links *{link_id | all}* **location** *node-id*

Syntax Description	<i>link_id</i>	Displays one or more EIO link states.
	Note	The range of the <i>link id</i> argument is 0 to 4294967295.
	location <i>node-id</i>	(Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Default No default behavior or values

Command Modes Admin EXEC mode

Command History	Release	Modification
	Release 3.2	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	root-system	read, write

Examples The following is detailed sample output from the **show controllers fabricq eio** command for location 0/1/CPU0:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabricq eio links all location 0/1/CPU0
```

```
Node: 0/1/CPU0:
```

```
EIO links:
```

```
-----
ASIC Id      Peer Id      Type Link-Id Attempts Accept Failed State
-----
FABRICQ_0    FIA_0        RX  30         1         1         0    EIO_LINK_TRAINED
FABRICQ_0    FIA_0        RX  32         1         1         0    EIO_LINK_TRAINED
FABRICQ_0    FIA_0        RX  34         1         1         0    EIO_LINK_TRAINED
FABRICQ_0    FIA_0        RX  36         1         1         0    EIO_LINK_TRAINED
FABRICQ_0    FIA_1        RX  40         1         1         0    EIO_LINK_TRAINED
FABRICQ_0    FIA_1        RX  42         1         1         0    EIO_LINK_TRAINED
FABRICQ_0    FIA_1        RX  44         1         1         0    EIO_LINK_TRAINED
```

FABRICQ_0	FIA_1	RX	46	1	1	0	EIO_LINK_TRAINED
FABRICQ_0	PSE_1	TX	50	0	0	0	EIO_LINK_TRAINED
FABRICQ_1	FIA_0	RX	31	1	1	0	EIO_LINK_TRAINED
FABRICQ_1	FIA_0	RX	33	1	1	0	EIO_LINK_TRAINED
FABRICQ_1	FIA_0	RX	35	1	1	0	EIO_LINK_TRAINED
FABRICQ_1	FIA_0	RX	37	1	1	0	EIO_LINK_TRAINED
FABRICQ_1	FIA_1	RX	41	1	1	0	EIO_LINK_TRAINED
FABRICQ_1	FIA_1	RX	43	1	1	0	EIO_LINK_TRAINED

show controllers fabricq fabric-backpressure

To display back-pressure information for the fabric queue ASICs, use the **show controllers fabricq fabric-backpressure** command in EXEC mode and Admin EXEC mode.

show controllers fabricq fabric-backpressure [**summary**] [**instance** *asic_instance*] [**location** *node-id*]

Syntax Description	<table> <tr> <td data-bbox="334 501 532 537">summary</td><td data-bbox="532 501 1497 940"> <p>(Optional) Displays summarized back-pressure information about all fabric queue ASICs in the system.</p> <p>Note In Release 5.1.1 and later, the summary option projects a list of BP fabric groups the software expects to find in the system based on the number of slots in the chassis and the largest capacity line card model. Each line card can have up to four fabric groups depending on the capacity of the card. Each fabric group is comprised of 32 bits, and the groups are numbered sequentially (0, 1, 2, 3, 4, 5, 6...) across the racks in the system. The summary also reports the groups from which BP information is not received only. All group-1 (0, 4, 8, 12) and group-2 (1, 5, 9, 13) instances are reported automatically. Information for group-2 (2, 6, 10, 15) instances are transmitted and reported when a CRS-X card is installed in slot 15 of a 16-slot CRS router.</p> </td></tr> <tr> <td data-bbox="334 940 532 1045">instance <i>asic_instance</i></td><td data-bbox="532 940 1497 1184"> <p>(Optional) Displays back-pressure information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose back-pressure information you want to display.</p> <p>Note Enter the show controllers fabricq fabric-backpressure command without including any of the optional keywords or arguments to display all fabric queue ASIC instances in the system.</p> </td></tr> <tr> <td data-bbox="334 1184 532 1373">location <i>node</i></td><td data-bbox="532 1184 1497 1373"> <p>Displays back-pressure information for the fabric queue ASICs on a particular node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.</p> <p>Note Use the show platform command to see a list of all nodes currently installed in your system.</p> </td></tr> </table>	summary	<p>(Optional) Displays summarized back-pressure information about all fabric queue ASICs in the system.</p> <p>Note In Release 5.1.1 and later, the summary option projects a list of BP fabric groups the software expects to find in the system based on the number of slots in the chassis and the largest capacity line card model. Each line card can have up to four fabric groups depending on the capacity of the card. Each fabric group is comprised of 32 bits, and the groups are numbered sequentially (0, 1, 2, 3, 4, 5, 6...) across the racks in the system. The summary also reports the groups from which BP information is not received only. All group-1 (0, 4, 8, 12) and group-2 (1, 5, 9, 13) instances are reported automatically. Information for group-2 (2, 6, 10, 15) instances are transmitted and reported when a CRS-X card is installed in slot 15 of a 16-slot CRS router.</p>	instance <i>asic_instance</i>	<p>(Optional) Displays back-pressure information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose back-pressure information you want to display.</p> <p>Note Enter the show controllers fabricq fabric-backpressure command without including any of the optional keywords or arguments to display all fabric queue ASIC instances in the system.</p>	location <i>node</i>	<p>Displays back-pressure information for the fabric queue ASICs on a particular node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.</p> <p>Note Use the show platform command to see a list of all nodes currently installed in your system.</p>
summary	<p>(Optional) Displays summarized back-pressure information about all fabric queue ASICs in the system.</p> <p>Note In Release 5.1.1 and later, the summary option projects a list of BP fabric groups the software expects to find in the system based on the number of slots in the chassis and the largest capacity line card model. Each line card can have up to four fabric groups depending on the capacity of the card. Each fabric group is comprised of 32 bits, and the groups are numbered sequentially (0, 1, 2, 3, 4, 5, 6...) across the racks in the system. The summary also reports the groups from which BP information is not received only. All group-1 (0, 4, 8, 12) and group-2 (1, 5, 9, 13) instances are reported automatically. Information for group-2 (2, 6, 10, 15) instances are transmitted and reported when a CRS-X card is installed in slot 15 of a 16-slot CRS router.</p>						
instance <i>asic_instance</i>	<p>(Optional) Displays back-pressure information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose back-pressure information you want to display.</p> <p>Note Enter the show controllers fabricq fabric-backpressure command without including any of the optional keywords or arguments to display all fabric queue ASIC instances in the system.</p>						
location <i>node</i>	<p>Displays back-pressure information for the fabric queue ASICs on a particular node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.</p> <p>Note Use the show platform command to see a list of all nodes currently installed in your system.</p>						
Command Default	Enter the show controllers fabricq fabric-backpressure command without including any of the optional keywords or arguments to display detailed back-pressure information about all fabric queue ASICs in the system.						
Command Modes	EXEC mode Admin EXEC mode						
Command History	<table> <tr> <th data-bbox="334 1646 500 1682">Release</th><th data-bbox="500 1646 1497 1682">Modification</th></tr> <tr> <td data-bbox="334 1709 500 1745">Release 3.4.0</td><td data-bbox="500 1709 1497 1745">This command was introduced.</td></tr> <tr> <td data-bbox="334 1772 500 1808">Release 5.1.1</td><td data-bbox="500 1772 1497 1808">The summary keyword lists the projected BP fabric groups.</td></tr> </table>	Release	Modification	Release 3.4.0	This command was introduced.	Release 5.1.1	The summary keyword lists the projected BP fabric groups.
Release	Modification						
Release 3.4.0	This command was introduced.						
Release 5.1.1	The summary keyword lists the projected BP fabric groups.						

Usage Guidelines

On the fabricq ASICs, a BP Engine configured for each non-empty fabric group present in the system is shown as enabled **Yes** under the Enabled column on all fabricq ASICs in the system.

Task ID**Task ID Operations**

fabric	read
--------	------

interface	read
-----------	------

drivers	read
---------	------

Examples

The following example shows sample output from the **show controllers fabricq fabric-backpressure** command when it is entered with the **summary** keyword:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabricq fabric-backpressure summary

Rack 0: All Groups Received? : Yes
```

The following example shows sample output from the **show controllers fabricq fabric-backpressure** command when it is entered without any of the optional keywords:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router(admin)# show controllers fabricq fabric-backpressure

Location: 0/1/CPU0
Asic Instance: 0
Fabric Destination Address: 4
BP global Configuration Register: 0xff07

Cluster Number: 0
Primary Link: 0
Secondary Link: 9
Number of Backup links: 14
Backup Links: 8 1 2 10 3 11 27 16 26 17 25 18 24 19
BP enable Mask: 0x4
BP EC: 0
BP IM: 0x1ffe
+-----+
|BP Engine| Enabled |Current Link |Rx group |P Link |S Link |
+-----+
| 0 | No |Secondary | 255 | 0 | 9 |
+-----+
| 1 | No |Secondary | 255 | 0 | 9 |
+-----+
| 2 | Yes |Primary | 0 | 0 | 9 |
+-----+

Location: 0/1/CPU0
Asic Instance: 1
Fabric Destination Address: 5
BP global Configuration Register: 0xff07

Cluster Number: 0
Primary Link: 0
Secondary Link: 9
Number of Backup links: 14
Backup Links: 8 1 2 10 3 11 27 16 26 17 25 18 24 19
```

show controllers fabricq fabric-backpressure

```

BP enable Mask: 0x4
BP EC: 0
BP IM: 0x1ffe
+-----+
|BP Engine| Enabled |Current Link |Rx group |P Link |S Link |
+-----+
| 0 | No |Secondary | 255 | 0 | 9 |
+-----+
| 1 | No |Secondary | 255 | 0 | 9 |
+-----+
| 2 | Yes |Primary | 0 | 0 | 9 |
+-----+

Location: 0/3/CPU0
Asic Instance: 0
Fabric Destination Address: 12
BP global Configuration Register: 0xff07

Cluster Number: 0
--More--

```

show controllers fabricq health

To display the general condition of a fabricq ASIC, use the **show controllers fabricq health** command in Admin EXEC mode.

show controllers fabricq health [**instance** *asic_instance*] [**location** *node-id*]

Syntax Description	<div> <i>asic_instance</i> (Optional) Displays health information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose health information is to be displayed. </div> <div> location <i>node-id</i> (Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. </div>						
Command Default	No default behavior or values						
Command Modes	Admin EXEC mode						
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>Release 4.0.0</td><td>This command was introduced.</td></tr> </table>	Release	Modification	Release 4.0.0	This command was introduced.		
Release	Modification						
Release 4.0.0	This command was introduced.						
Usage Guidelines	No specific guidelines impact the use of this command.						
Task ID	<table> <tr> <th>Task ID</th><th>Operations</th></tr> <tr> <td>drivers</td><td>read, write</td></tr> <tr> <td>interface</td><td>read, write</td></tr> </table>	Task ID	Operations	drivers	read, write	interface	read, write
Task ID	Operations						
drivers	read, write						
interface	read, write						

Examples

The following is detailed sample output from the **show controllers fabricq health** command:

```
RP/0/RP0/CPU0:router#show controllers fabricq health location 0/6/cpu0

Location: 0/6/CPU0
Asic Instance: 0
Fabric Destination Address: 24
Cpuctrl EC: 00000000
SN8 Frame: 0x000001          SN8 CRC: 00000000

Fabric Interface Top level EC: 0
Block 0 EC: 00000000      Block 1 EC: 00000000
Block 2 EC: 00000000      Block 3 EC: 00000000
Block 4 EC: 00000000      Block 5 EC: 00000000
Block 6 EC: 00000000      Block 7 EC: 00000000
```

show controllers fabricq health

```
Ingressq Interface Top level EC: 00000000
BP Cluster 0 EC: 00000000   BP Cluster 1 EC: 00000000
BP Cluster 2 EC: 00000000   BP Cluster 3 EC: 00000000
BP Cluster 4 EC: 00000000   BP Cluster 5 EC: 00000000
BP Cluster 6 EC: 00000000   BP Cluster 7 EC: 00000000
BP Cluster 8 EC: 00000000   BP Cluster 9 EC: 00000000
```

show controllers fabricq link-info

To display the state of the links on a fabricq ASIC, use the **show controllers fabricq link-info** command in Admin EXEC mode.

show controllers fabricq link-info [*link_number* | **all**] [**instance** *asic_instance*] [**location** *node-id*]

Syntax Description	<i>link_number</i>	Link number. Range is from 0 to 31.
	<i>asic_instance</i> asic_instance	(Optional) Displays health information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose health information you want to display.
	location <i>node-id</i>	(Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Default No default behavior or values

Command Modes Admin EXEC mode

Release	Modification
Release 3.2	This command was introduced.

Usage Guidelines The **show controllers fabricq link-info** command displays the state of the links on a fabricq ASIC. Any link that is connected to a plane that is not administratively down or to an fabric board that has been removed, should show as **up** under the columns **Driver State**, **FSDB State** and **Barrier State**. If the driver state is **down**, the column **Errors** would indicate the reason behind it. The column titled **Drv Bar** shows the number of times the driver attempted to bring up a link's driver state and barrier state.

Task ID	Task ID	Operations
	root-system	read, write

Examples The following is detailed sample output from the **show controllers fabricq link-info** command for location 0/1/CPU0:

```
RP/0/RP0/CPU0:router# admin
RP/0/RP0/CPU0:router (admin)# show controllers fabricq link-info all location 0/1/CPU0

Location: 0/1/CPU0
Asic Instance: 0
Fabric Destination Address: 4
Retry period: 0 sec
Link Active bitmap (1=up,0=down): 0xffffffff
+-----+
|Link #|Driver state | FSDB state |Barrier state|Up (Drv Barr)| Errors |
+-----+
```

show controllers fabricq link-info

+-----+									
	0		Up		Up		Up		1 1
	1		Up		Up		Up		1 1
	2		Up		Up		Up		1 1
	3		Up		Up		Up		1 1
	4		Up		Up		Up		1 1
	5		Up		Up		Up		1 1
	6		Up		Up		Up		1 1
	7		Up		Up		Up		1 1
	8		Up		Up		Up		1 1
	9		Up		Up		Up		1 1
	10		Up		Up		Up		1 1
	11		Up		Up		Up		1 1
	12		Up		Up		Up		1 1
	13		Up		Up		Up		1 1

show controllers fabricq summary

To display the summarized information of the condition of a fabricq ASIC, use the **show controllers fabricq summary** command in Admin EXEC mode.

show controllers fabricq summary [**instance** *asic_instance*] [**location** *node-id*]

Syntax Description	<p><i>asic_instance</i> (Optional) Displays health information for a specific fabric queue ASIC. Replace the <i>asic_instance</i> argument with the instance that identifies the ASIC whose health information is to be displayed.</p> <p>location <i>node-id</i> (Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.</p>	
Command Default	No default behavior or values	
Command Modes	Admin EXEC mode	
Command History	Release	Modification
	Release 4.0.0	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	drivers	read, write
	interface	read, write

Examples

The following is detailed sample output from the **show controllers fabricq summary** command:

```
RP/0/RP0/CPU0:router# show controllers fabricq summary
```

```
Location: 0/6/CPU0
Asic Instance: 0
Fabric Destination Address: 24
Cpuctrl EC: 00000000
SN8 Frame: 0x000001          SN8 CRC: 00000000

Fabric Interface Top level EC: 0
Block 0 EC: 00000000          Block 1 EC: 00000000
Block 2 EC: 00000000          Block 3 EC: 00000000
Block 4 EC: 00000000          Block 5 EC: 00000000
Block 6 EC: 00000000          Block 7 EC: 00000000
```

show controllers fabricq summary

```
Ingressq Interface Top level EC: 00000000
BP Cluster 0 EC: 00000000   BP Cluster 1 EC: 00000000
BP Cluster 2 EC: 00000000   BP Cluster 3 EC: 00000000
BP Cluster 4 EC: 00000000   BP Cluster 5 EC: 00000000
```

show controllers fabricq queue

To display information about the hardware queues of the performance route processor chopper and assembler FPGAs, use the **show controllers fabricq queue** command in Admin EXEC mode.

show controllers fabricq queue [**instance** *instance-id*] [**location** *node-id*]

Syntax Description	<p>instance <i>instance-id</i> (Optional) Displays information about a specific ASIC. Replace the <i>instance-id</i> argument with an ASIC instance. Range is from 1 through 4.</p> <p>location <i>node-id</i> (Optional) Displays statistical information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.</p>				
Command Default	Information for all performance route processors on the router is displayed				
Command Modes	Admin EXEC mode				
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>Release 3.2</td><td>This command was introduced.</td></tr> </table>	Release	Modification	Release 3.2	This command was introduced.
Release	Modification				
Release 3.2	This command was introduced.				
Usage Guidelines	<p>Use the show controllers fabricq queue command to display information about packet queues. Specifying a location displays information only if that location is an RP.</p> <p>This command is intended for use while performing debugging procedures.</p>				
Task ID	<table> <tr> <th>Task ID</th><th>Operations</th></tr> <tr> <td>root-system</td><td>read, write</td></tr> </table>	Task ID	Operations	root-system	read, write
Task ID	Operations				
root-system	read, write				
Examples	<p>The following is detailed sample output from the show controllers fabricq queue command for the location 0/1/CPU0:</p> <pre>RP/0/RP0/CPU0:router# admin RP/0/RP0/CPU0:router(admin)# show controllers fabricq queue location 0/1/CPU0 Fabric Queue Manager Queue Information: ===== Location: 0/1/CPU0 Asic Instance: 0 Fabric Destination Address: 4 CpuCtrl Cast range : 0 - 7 Multicast Range : 16 - 71 Unicast Quanta in KBytes : 58, Multicast Quanta : 14 +-----+ Type/Ifname Port Queue Q P-quanta Q-quanta HighW LowW Q Len BW num num pri KBytes KBytes KBytes KBytes KBytes (kb +-----+ Cpuctrl Cast 0 0 - 7 HI 13 13 1021 919 0 </pre>				

show controllers fabricq queue

```

|Multicast          | 0| 17| BE|      13|      13| 26214| 23592|      0|  |
|Multicast          | 0| 18| AF|      13|      13| 26214| 23592|      0|  |
|Multicast          | 0| 20| HI|      13| 1905| 26214| 23592|      0|  |
|POS0/1/4/0         | 1| 129| BE|      13|      450| 1755| 1578|      0|239|
|POS0/1/4/0         | 2| 257| AF|      13|      450| 1755| 1578|      0|239|
|POS0/1/4/0         | 4| 513| HI|     1905|      450| 1755| 1578|      0|239|
|POS0/1/0/0         | 1| 130| BE|      13|      30| 109| 98|      0| 14|
|POS0/1/0/0         | 2| 258| AF|      13|      30| 109| 98|      0| 14|
|POS0/1/0/0         | 4| 514| HI|     1905|      30| 109| 98|      0| 14|
|GigabitEthernet0/1/5/0| 1| 131| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/0| 2| 259| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/0| 4| 515| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/1| 1| 132| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/1| 2| 260| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/1| 4| 516| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/2| 1| 133| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/2| 2| 261| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/2| 4| 517| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/3| 1| 134| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/3| 2| 262| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/3| 4| 518| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/4| 1| 135| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/4| 2| 263| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/4| 4| 519| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/5| 1| 136| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/5| 2| 264| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/5| 4| 520| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/6| 1| 137| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/6| 2| 265| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/6| 4| 521| HI|     1905|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/7| 1| 138| BE|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/7| 2| 266| AF|      13|      187| 732| 658|      0|  |
|GigabitEthernet0/1/5/7| 4| 522| HI|     1905|      187| 732| 658|      0|  |
--More--

```

show controllers fabricq statistics

To display statistics about packet flow through the fabric queue application-specific integrated circuit (ASIC), use the **show controllers fabricq statistics** command in EXEC mode.

show controllers fabricq statistics [*instance instance*] [*location node-id*]

Syntax Description	instance <i>instance</i> (Optional) Specifies instance and number for a single fabric queue ASIC. The <i>instance</i> argument is a number from 0 to 4.	
	location <i>node-id</i> (Optional) Specifies statistical packet flow information for the designated node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.	
Command Default	Information for all fabric queue ASICs for all locations is displayed	
Command Modes	EXEC mode	
Command History	Release	Modification
	Release 2.0	This command was introduced.
	Release 3.3.0	The show controllers fabricq packet-stats command was replaced by the show controllers fabricq statistics command.
Usage Guidelines	Use the show controllers fabricq statistics command to track the number of unicast and multicast packets that are sent from the fabric to the specified node.	
Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples

The following is sample output from the **show controllers fabricq statistics** command that displays statistics about fabric queue packets that have passed through ASIC 0 on node 0/1/CPU0:

```
RP/0/RP0/CPU0:router# show controllers fabricq statistics instance 0 location 0/1/CPU0
```

```
Fabric Queue Manager Packet Statistics
=====
```

```
Location: 0/1/CPU0
Asic Instance: 0
Fabric Destination Address:    32
```

```
Input Cell counters:
```

```
+-----+
Data cells      :          42356 (+          22 )
Control cells   :       29877224 (+       36372 )
```

show controllers fabricq statistics

```

Idle      cells      :      219947284936 (+      267358842 )
BP Asserted Count   :              0 (+              0 )
MC BP Asserted Count :              0 (+              0 )

Reassembled packet counters
+-----+
Ucast pkts      :              0 (+              0 )
Mcast pkts      :              0 (+              0 )
Cpuctrlcast pkts :      21159 (+              11 )

Dropped packets
+-----+
Ucast pkts      :              0 (+              0 )
Mcast pkts      :              0 (+              0 )
Cpuctrlcast pkts :              0 (+              0 )
Vital denied pkts :              0 (+              0 )
NonVital denied pkts :              0 (+              0 )
Unicast lost pkts :              0 (+              0 )
Ucast partial pkts :              0 (+              0 )
PSM OOR Drops   :              0 (+              0 )

```

This table describes the significant fields shown in the display.

Table 4: show controllers fabricq statistics Field Descriptions

Field	Description
Input Cell counters	Number of cells that have reached the fabric queue ASIC. Note The numbers following the colons are the cumulative count since the last time the counts were cleared and those within parentheses are the delta since the last time the driver polled the ASIC.
Control Cells	Carry discard and back-pressure information across the fabric.
Idle Cells	Carry control information in the cell header and keep the links in sync.
Data Cells	All other cells apart from Control cells and Idle cells are counted as data cells, regardless of whether they are CPU bound or E-metro bound.
Reassembled packet counters	Number of packets the fabric queue ASIC has reassembled after transmission over the fabric.
Ucast packet	Number of unicast packets.
Mcast packet	Number of multicast packets.
Cpuctrlcast packet	All the traffic bound for the local CPU of this linecard.
Dropped packets	Number of packets the fabric queue ASIC has had to drop.
Unicast packets	These packets are discarded at the Output Queue Manager block (OQM).
Multicast packets	These packets are discarded at the OQM.
Cpuctrlcast packets	These packets are discarded at the OQM.

Field	Description
Vital denied packets	Represent a condition where buffer references are denied for a vital in the Packet Control Logic (PCL) block of the ASIC.
NonVital denied packets	Represent a condition where buffer references are denied for a non vital in the Packet Control Logic (PCL) block of the ASIC.
Unicast lost packets	Missing packets at the PCL block when packets are retired to the OQM.
Unicast partial packets	Incomplete packets at the PCL block when packets are retired to the OQM.
PSM OOR Drops	Number of packets that had to be dropped because Packet Status Memory (PSM) ran out of entries.

show controllers ingressq capacity

To display ASIC capacity details for the ingress fabric queue, use the **show controllers ingressq capacity** command in EXEC mode.

show controllers ingressq capacity *cap_table* [**location** *node-id*]

Syntax Description	<i>cap_table</i>	Specific capacity table.
	Note	The range is from 0 to 4294967295. P-MAX=0, Q-MAX=1, and QMIN=3.
	location <i>node-id</i>	Identifies the location of the ingressq queue whose statistics you want to display. The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation.
Command Default	No default behavior or values	
Command Modes	EXEC mode	
Command History	Release	Modification
	Release 3.2	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples

The following example shows how to display ASIC capacity information for the ingress fabric queue:

```
RP/0/RP0/CPU0:router#show controllers ingressq capacity 0 location 0/1/CPU0
```

```
ingressq capacity table: Port Max capacity
Table id: 0
4      8      12      16      20      24      28      32
36     40     44     48     52     56     60     64
68     72     76     88     108    136    172    216
276    348    436    552    700    884    1116   1408
1780   2248   2836   3584   4528   5724   7228   9136
11540  14580  18420  23272  29404  37152  46936  59304
74924  94664  119600 151108 190916 241212 304756 385040
486472 614628 776548 981120 1239584 1566140 1978724 2500000
```

show controllers ingressq clients

To display all clients connected to the ingress queue manager (IQM), use the **show controllers ingressq clients** command in EXEC mode.

show controllers ingressq clients location *node-id*

Syntax Description	location <i>node-id</i> Identifies the location of the ingress queue whose statistics you want to display. The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation.						
Command Default	No default behavior or values						
Command Modes	EXEC mode						
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>Release 3.2</td><td>This command was introduced.</td></tr> </table>	Release	Modification	Release 3.2	This command was introduced.		
Release	Modification						
Release 3.2	This command was introduced.						
Usage Guidelines	No specific guidelines impact the use of this command.						
Task ID	<table> <tr> <th>Task ID</th><th>Operations</th></tr> <tr> <td>interface</td><td>read</td></tr> <tr> <td>drivers</td><td>read</td></tr> </table>	Task ID	Operations	interface	read	drivers	read
Task ID	Operations						
interface	read						
drivers	read						

Examples

The following example shows how to display ingressq clients connected to IQM:

```
RP/0/RP0/CPU0:router# show controllers ingressq clients location 0/1/CPU0
-----
ingress queue manager clients:
handle name
-----
1      hfr_pm
2      QOS_EA
3      BM-EA HFR DLL
```

show controllers ingressq eio

To display elastic I/O (EIO) information for the ingress queueing ASIC, use the **show controllers ingressq eio** command in EXEC mode.

show controllers ingressq eio links *{link_id | all}* [**location** *node-id*]

Syntax Description	<i>link_id</i>	Displays one or more EIO link states.
	Note	The range of the <i>link id</i> argument is 0 to 4294967295.
	all	Indicates that you want to display ingressq eio information for all interfaces in the specified location.
	location <i>node-id</i>	Identifies the location of the ingress queue manager whose EIO link information you want to display. The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.2	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples The following example shows how to display EIO information for the ingress fabric queue:

```
RP/0/RP0/CPU0:router# show controllers ingressq eio links all
```

```
Node: 0/1/CPU0:
```

```
EIO links:
```

ASIC Id	Peer Id	Type	Link-Id	Attempts	Accept	Failed	State
INGRESSQ_0	PSE_0	RX	10	1	1	0	EIO_LINK_TRAINED
INGRESSQ_0	PSE_0	TX	24	0	0	0	EIO_LINK_TRAINED
INGRESSQ_0	FIA_0	TX	20	0	0	0	EIO_LINK_TRAINED

```

INGRESSQ_0 FIA_0 TX 21 0 0 0 EIO_LINK_TRAINED
INGRESSQ_0 FIA_1 TX 22 0 0 0 EIO_LINK_TRAINED
INGRESSQ_0 FIA_1 TX 23 0 0 0 EIO_LINK_TRAINED
INGRESSQ_0 FABRICQ_0 RX 54 1 1 0 EIO_LINK_TRAINED
INGRESSQ_0 FABRICQ_1 RX 55 1 1 0 EIO_LINK_TRAINED

```

Node: 0/4/CPU0:

EIO links:

```

-----
ASIC Id      Peer Id      Type Link-Id Attempts Accept Failed State
-----
INGRESSQ_0 FIA_0 TX 20 0 0 0 EIO_LINK_TRAINED
INGRESSQ_0 FABRICQ_0 RX 54 1 1 0 EIO_LINK_TRAINED
INGRESSQ_0 FABRICQ_1 RX 55 1 1 0 EIO_LINK_TRAINED
-----

```

show controllers ingressq fabric

To display various parameters of ingressq and switching fabric connectivity, use the **show controllers ingressq fabric** command in EXEC mode.

show controllers ingressq fabric {asic | detail | links | pla} [location *node-id*]

Syntax Description	asic	Displays ASIC states.
	detail	Displays fabric state information.
	links	Displays link states information.
	pla	Displays plane availability information for unicast and multicast.
	location <i>node-id</i>	Identifies the location of the ingressq queue whose statistics you want to display. The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.2	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples The following example shows how to display various parameters of ingressq and switching fabric connectivity for all fabric interfaces:

```
RP/0/RP0/CPU0:router# show controllers ingressq fabric links location 0/1/CPU0
Ingressq link state
plane-id    link-id      ADMIN-STATE OPER-STATE  AVAIL-STATE UP-COUNT
-----
0           0            UP          UP          UP          1
0           8            UP          UP          UP          1
0           16           UP          UP          UP          1
0           24           UP          UP          UP          1
1           1            UP          UP          UP          1
1           9            UP          UP          UP          1
1           17           UP          UP          UP          1
```

1	25	UP	UP	UP	1
2	2	UP	UP	UP	1
2	10	UP	UP	UP	1
2	18	UP	UP	UP	1
2	26	UP	UP	UP	1
3	3	UP	UP	UP	1
3	11	UP	UP	UP	1
3	19	UP	UP	UP	1
3	27	UP	UP	UP	1
4	4	UP	UP	UP	1
4	12	UP	UP	UP	1
4	20	UP	UP	UP	1
4	28	UP	UP	UP	1
5	5	UP	UP	UP	1
5	13	UP	UP	UP	1
5	21	UP	UP	UP	1
5	29	UP	UP	UP	1
6	6	UP	UP	UP	1
6	14	UP	UP	UP	1
6	22	UP	UP	UP	1
6	30	UP	UP	UP	1
7	7	UP	UP	UP	1
7	15	UP	UP	UP	1
7	23	UP	UP	UP	1
7	31	UP	UP	UP	1

show controllers ingressq interfaces

To display the ingressq shape queue and parameters associated with the physical interfaces on the card, use the **show controllers ingressq interfaces** command in EXEC mode.

show controllers ingressq interfaces *{type instance | all}* [**location** *node-id*]

Syntax Description	<i>type instance</i>	Physical interface or a virtual interface.
	Note	Use the show interfaces command to see a list of all possible interfaces currently configured on the router.
	all	Indicates that you want to display ingressq queue information for all interfaces in the specified location.
	location <i>node-id</i>	Identifies the location of the ingress queue whose statistics you want to display. The <i>node-id</i> argument is expressed in the <i>rack/slot/module</i> notation.
Command Default	No default behavior or values	
Command Modes	EXEC mode	
Command History	Release	Modification
	Release 3.2	This command was introduced.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples

The following example shows how to display the ingressq shape queue and parameters associated with the physical interfaces on the card:

```
RP/0/RP0/CPU0:router# show controllers ingressq interfaces all location 0/1/CPU0
```

```
iqm interfaces:
```

```
legend:: #sub: num sub intf, rc: reference count, indx: demux num.
```

name	intf hd	parent hd	#sub	indx	def-port	ports	rc	Owner
Bundle-POS24	0x80050	0x0	0	0	25	1	3	hfr_pm
Bundle-Ether28	0x80070	0x0	3	0	26	1	6	hfr_pm
Bundle-Ether28.1	0x80090	0x80070	0	0	26	1	3	hfr_pm
Bundle-Ether28.2	0x800b0	0x80070	0	0	26	1	3	hfr_pm

```

Bundle-Ether28.3      0x800d0      0x80070      0      0      26      1      3      hfr_pm
POS0_1_0_0            0x1180060    0x0          0      0      9        1      3      hfr_pm
POS0_1_4_0            0x11800c0    0x0          0      0      8        1      3      hfr_pm
TenGigE0_1_1_0        0x11800e0    0x0          0      0      18       1      3      hfr_pm
GigabitEthernet0_1_5_00x1180100 0x0          0      0      10       1      3      hfr_m
GigabitEthernet0_1_5_10x1180120 0x0          0      0      11       1      3      hfr_m
GigabitEthernet0_1_5_20x1180140 0x0          0      0      12       1      3      hfr_m
GigabitEthernet0_1_5_30x1180160 0x0          0      0      13       1      3      hfr_m
GigabitEthernet0_1_5_40x1180180 0x0          0      0      14       1      3      hfr_m
GigabitEthernet0_1_5_50x11801a0 0x0          0      0      15       1      3      hfr_m
GigabitEthernet0_1_5_60x11801c0 0x0          0      0      16       1      3      hfr_m
GigabitEthernet0_1_5_70x11801e0 0x0          0      0      17       1      3      hfr_m
POS0_1_4_1            0x1180240    0x0          0      0      19       1      3      hfr_pm
--More--

```

show controllers ingressq queues

To display information about the ingressq shape queues and parameters that have been created for the ingress interfaces, use the **show controllers ingressq queues** command in EXEC mode.

show controllers ingressq queues {*queue_handle* | **all**} [**location** *node-id*]

Syntax Description	<i>queue_handle</i>	Specific queue marked by a unique number. Range is from 0 to 4294967295.
	all	Indicates that you want to display ingressq queue information for all interfaces.
	location <i>node-id</i>	Identifies the location of the ingressq queue whose statistics you want to display. The <i>node-id</i> is expressed in the <i>rack/slot/module</i> notation.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.2	This command was introduced.
	Release 3.8.0	The <i>queue handle</i> argument range of 0 to 4294967295 was added.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples The following example shows how to display the ingressq shape queues and parameters that have been created for the ingress interfaces:

```
RP/0/RP0/CPU0:router# show controllers ingressq queues all location 0/1/CPU0

iqm queues:
legend: (*) default q, LP low priority,HP high priority, bs burst sizebw (kbps).
name          owner    q-hd  port  type max_bw  min_bw  max_bs  min_bs  qut
-----
default_queue(*) hfr_pm  32    8     LP  2396160  0       650    0       25
default_queue(*) hfr_pm  33    9     LP  149760   0       533    0       1
default_queue(*) hfr_pm  34    10    LP  1000192  0       638    0       10
default_queue(*) hfr_pm  35    11    LP  1000192  0       638    0       10
default_queue(*) hfr_pm  36    12    LP  1000192  0       638    0       10
default_queue(*) hfr_pm  37    13    LP  1000192  0       638    0       10
default_queue(*) hfr_pm  38    14    LP  1000192  0       638    0       10
default_queue(*) hfr_pm  39    15    LP  1000192  0       638    0       10
default_queue(*) hfr_pm  40    16    LP  1000192  0       638    0       10
```

```

default_queue(*) hfr_pm 41 17 LP 1000192 0 638 0 10
default_queue(*) hfr_pm 42 18 LP 10000128 0 511 0 10
default_queue(*) hfr_pm 43 19 LP 2396160 0 650 0 25
default_queue(*) hfr_pm 44 20 LP 149760 0 533 0 1
default_queue(*) hfr_pm 45 21 LP 2396160 0 650 0 25
default_queue(*) hfr_pm 46 22 LP 149760 0 533 0 1
default_queue(*) hfr_pm 47 23 LP 2396160 0 650 0 25
default_queue(*) hfr_pm 48 24 LP 149760 0 533 0 1
default_queue(*) BM-EA HFR DLL49 25 LP 4792320 0 588 0
default_queue(*) BM-EA HFR DLL50 26 LP 2000000 0 578 0

```

show controllers ingressq statistics

To display ingress queue manager statistics, use the **show controllers ingressq statistics** in EXEC mode.

show controllers ingressq statistics [**location** *node-id*]

Syntax Description

location *node-id* Identifies the location of the ingress queue whose statistics you want to display. The *node-id* argument is expressed in the *rack/slot/module* notation.

Note Use the **show platform** command to see the location of all nodes installed in the router.

Command Default

No default behavior or values

Command Modes

EXEC mode

Command History

Release	Modification
Release 3.2	This command was introduced.
Release 3.6.0	The location <i>node-id</i> keyword and argument were changed from required to optional.

Usage Guidelines



Note In the **show controllers ingressq statistics** command display, the *rx pkts* counter field may wrap if it is calculating line rate traffic.

Task ID

Task ID **Operations**

interface read

drivers read

Examples

The following example shows how to display ingress queue manager statistics:

```
RP/0/RP0/CPU0:router# show controllers ingressq statistics location 0/2/CPU0
```

```
Ingressq Rx Statistics.
```

```
-----
rx pkts                :          131827 (          33509182 bytes)
rx pkts from cpu       :          102509 (          16422606 bytes)
rx control pkts from cpu :          102509 (          16422606 bytes)
rx data pkts from cpu   :              0 (              0 bytes)
```

```
Ingressq Tx Statistics.
```

```

tx pkts                :          131826 (      35086366 bytes)
tx pkts to cpu         :           29318 (      17086576 bytes)
tx control pkts to cpu :           29318 (      17086576 bytes)
tx data pkts to cpu    :              0 (              0 bytes)
tx pkts shaped         :          102508 (      17999790 bytes)
tx cells to fabric     :          223190

```

Ingressq Drops.

```

-----
length error drops - PSE      :          0
length error drops - Cpuctrl :          0
crc error drops - PSE        :          0
crc error drops - Cpuctrl    :          0
OOR error drops - PSE        :          0
OOR error drops - Cpuctrl    :          0
discard drops                :          0
tail drops                   :          0
tail drops - no QE           :          0
cell drops                   :          0

```

This table describes the significant fields shown in the display.

Table 5: show controllers ingressq statistics Field Descriptions

Field	Description
Ingressq Rx Statistics	Displays the following receive statistics: <ul style="list-style-type: none"> • rx pkts—Total number of packets received; also shown in bytes. • rx pkts from cpu—Number of packets received from the CPU; also shown in bytes. • rx control pkts from cpu—Number of control packets received; also shown in bytes. • rx data pkts from cpu—Number of data packets received; also shown in bytes.
Ingressq Tx Statistics	Displays the following transmit statistics: <ul style="list-style-type: none"> • tx pkts—Total number of packets transmitted; also shown in bytes. • tx pkts to cpu—Number of packets transmitted from the CPU; also shown in bytes. • tx control pkts to cpu—Number of control packets transmitted; also shown in bytes. • tx data pkts to cpu—Number of data packets transmitted; also shown in bytes. • tx pkts shaped—Number of shaped data packets transmitted; also shown in bytes. • tx cells to fabric—Number of cells that were transmitted to the switch fabric; also shown in bytes.

Field	Description
Ingressq Drops	<p>Displays the following ingress queue drop statistics:</p> <ul style="list-style-type: none"> • length error drops - PSE—Number of packets that were dropped by the PSE due to length errors. • length error drops - Cpuctrl—Number of packets that were dropped by the CPU controller due to length errors. • crc error drops - PSE—Number of packets that were dropped by the PSE due to CRC errors. • crc error drops - Cpuctrl—Number of packets that were dropped by the CPU controller due to CRC errors • OOR error drops - PSE—Number of packets that were dropped by the PSE due to OOR errors. • OOR error drops - Cpuctrl—Number of packets that were dropped by the CPU controller due to OOR errors. • discard drops—Number of packets that were discarded. • tail drops—Number of packets discarded for this class because the queue was full. • tail drops - no QE—Number of packets dropped due to unavailability of the ingress Queue Engine (QE). • cell drops—Number of cells that were dropped by the ingress queue.

show controllers ingressq vports

To display information about the ingressq virtual ports and its parameters that have been created for the ingressq interfaces, use the **show controllers ingressq vports** command in EXEC mode.

show controllers ingressq vports {*port_handle* | **all**} [**location** *node-id*]

Syntax Description	<i>port_handle</i>	Specific virtual port or range of ports. Range is from 0 to 4294967295.
	all	Indicates that you want to display ingressq virtual ports.
	location <i>node-id</i>	Identifies the location of the ingress queue whose statistics you want to display. The <i>node-id</i> is expressed in the <i>rack/slot/module</i> notation.
Command Default	No default behavior or values	
Command Modes	EXEC mode	
Command History	Release	Modification
	Release 3.2	This command was introduced .
	Release 3.8.0	The <i>port handle</i> argument range of 0 to 4294967295 was added.
Usage Guidelines	No specific guidelines impact the use of this command.	
Task ID	Task ID	Operations
	interface	read
	drivers	read

Examples

The following example shows how to display a list of ingressq virtual ports:

```
RP/0/RP0/CPU0:router# show controllers ingressq vports all location 0/1/CPU0
```

ingressq virtual ports:

bw (kbps), bs (usec), quant(10s of 2*Fab MTU).

name	port-#	intf-hd	def-q	# Qs	rc	max-bw	max-bs	quant	o
default_port	8	0x11800c0	32	1	6	2396160	74924	48	hfr
default_port	9	0x1180060	33	1	6	149760	5724	2	hfr
default_port	10	0x1180100	34	1	6	1000192	37152	19	hfr
default_port	11	0x1180120	35	1	6	1000192	37152	19	hfr
default_port	12	0x1180140	36	1	6	1000192	37152	19	hfr
default_port	13	0x1180160	37	1	6	1000192	37152	19	hfr
default_port	14	0x1180180	38	1	6	1000192	37152	19	hfr
default_port	15	0x11801a0	39	1	6	1000192	37152	19	hfr
default_port	16	0x11801c0	40	1	6	1000192	37152	19	hfr
default_port	17	0x11801e0	41	1	6	1000192	37152	19	hfr

show controllers ingressq vports

default_port	18	0x11800e0	42	1	6	10000128	385040	200	hfr
default_port	19	0x1180240	43	1	6	2396160	74924	48	hfr
default_port	20	0x11802a0	44	1	6	149760	5724	2	hfr
default_port	21	0x1180300	45	1	6	2396160	74924	48	hfr
default_port	22	0x1180360	46	1	6	149760	5724	2	hfr
default_port	23	0x11803c0	47	1	6	2396160	74924	48	hfr
default_port	24	0x1180420	48	1	6	149760	5724	2	hfr
default_port	25	0x80050	49	1	6	4792320	151108	95	BM-L
default_port	26	0x80070	50	1	12	2000000	74924	40	BM-L
-									