



## ASIC Commands

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To use these commands in System Admin VM, you must be in a user group associated with appropriate command rules and data rules. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

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# clear controller fabric

To clear fabric plane information, use the **clear controller fabric** command in the System Admin EXEC mode.

```
clear controller fabric {counter | statistics} plane {plane-id | all}
```

Syntax Description		
<b>counter</b>		Clears the fabric up-down counters information.
<b>statistics</b>		Clears the fabric statistics counters information.
<b>plane</b>		Clears the fabric plane.
<i>plane-id</i>		Specifies the fabric plane number. Range is from 0 to 5.
<b>all</b>		Clears the fabric information for all planes

**Command Default** Information for all planes is cleared.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** To view the current status of the counters, execute the **show controller fabric plane all** command. Later, execute the **clear controller fabric** command to clear the necessary counter. To view the result of the **clear controller fabric** command, again execute the **show controller fabric plane all** command and notice the change.

This example shows how to view and clear the counters and later verify the result:

```
sysadmin-vm:0_RP0#show controller fabric plane all
Mon Jul 16 18:57:15.733 UTC

Plane Admin Plane up->dn up->mcast
Id State State counter counter
-----
0 UP DN 0 0
1 UP UP 0 23
2 UP UP 0 22
3 UP UP 0 19
4 UP DN 0 0
5 UP DN 0 0
>
sysadmin-vm:0_RP0# clear controller fabric counter plane 2
Mon Jul 16 18:58:08.122 UTC
sysadmin-vm:0_RP0# show controller fabric plane all
Mon Jul 16 18:58:18.654 UTC
```

## clear controller fabric

Plane Id	Admin State	Plane State	up->dn counter	up->mcast counter
0	UP	DN	0	0
1	UP	UP	0	23
2	UP	UP	0	0
3	UP	UP	0	19
4	UP	DN	0	0
5	UP	DN	0	0

# clear controller switch

To clear control plane Ethernet switch statistics, use the **clear controller switch** command in the System Admin EXEC mode.

```
clear controller switch {{fdb | statistics} location node-id | {mlap | sdr} statistics location node-id}
```

Syntax Description		
<b>fdb</b>		Commands for clearing switch forwarding database
<b>statistics</b>		Clears the Ethernet switch, MLAP, or SDR interface statistics.
<b>location</b> <i>node-id</i>		Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
<b>mlap</b>		Clears MLAP statistics
<b>sdr</b>		Clears SDR packet statistics

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Even after clearing the counters, users may not be able to view the counter with zero entry. This is because the system is dynamic and the counters increment instantly.

To view the current status of the counters, execute the **show controller switch statistics** command. Later, execute the **clear controller switch** command to clear the necessary counter. To view the result of the **clear controller switch** command, again execute the **show controller switch statistics** command and notice the change.

The following example shows how to view and clear the counters, and then verify the result:

```
sysadmin-vm:0_RP0#show controller switch statistics location 0/LC0/LC-SW
```

```
Wed Aug 28 22:36:03.160 UTC
Rack Card Switch Rack Serial Number
-----
0 LC0 LC-SW ABCDEFGHIJK

Port Phys State Tx Rx Tx Rx Connects To
State Changes Packets Packets Errors Errors
-----
0 Up 1 359550 135059 0 0 LC CPU (0)
2 Up 5 167398 349026 0 0 RP0
4 Up 5 23392 23460 0 0 RP1
6 Down 1 0 0 0 0 Slice 4
```

## clear controller switch

```

8      Up      1          253073  32683  0      0      CCC (RP0 Ctrl)
9      Up      1          23461   23386  0      0      CCC (RP1 Ctrl)
34     Down    1          0         0      0      0      Slice 1
36     Down    1          0         0      0      0      Slice 0
38     Down    1          0         0      0      0      Slice 2
39     Down    1          0         0      0      0      Slice 3
40     Down    0          0         0      0      0      Bao
41     Up      1          7727    0       0      0      Bao
42     Up      1          0        16338  0      0      Dbg Mgmt Eth0

```

```

sysadmin-vm:0_RP0# clear controller switch statistics location 0/LC0/LC-SW all
Wed Aug 28 22:36:32.358 UTC

```

```

Clear all switch port statistics ? [yes,no] yes
result Switch statistics cleared successfully.

```

```

sysadmin-vm:0_RP0# show controller switch statistics location 0/LC0/LC-SW
Wed Aug 28 22:36:44.457 UTC

```

```

Rack Card Switch Rack Serial Number

```

```

-----
0      LC0    LC-SW  ABCDEFGHIJK

```

```

      Phys  State  Tx      Rx      Tx      Rx
Port  State Changes Packets Packets Errors Errors Connects To
-----
0      Up      0       126     40      0       0       LC CPU (0)
2      Up      0       74      123     0       0       RP0
4      Up      0       22      22      0       0       RP1
6      Down    0       0        0      0       0       Slice 4
8      Up      0       78      30      0       0       CCC (RP0 Ctrl)
9      Up      0       22      22      0       0       CCC (RP1 Ctrl)
34     Down    0       0        0      0       0       Slice 1
36     Down    0       0        0      0       0       Slice 0
38     Down    0       0        0      0       0       Slice 2
39     Down    0       0        0      0       0       Slice 3
40     Down    0       0        0      0       0       Bao
41     Up      0       4        0      0       0       Bao
42     Up      0       0        16     0       0       Dbg Mgmt Eth0
-----

```

# show controller ccc ethernet

To display ethernet status information from the ethernet registers, use the **show controller ccc ethernet** command in the System Admin EXEC mode.

```
show controller ccc ethernet {counters | status} [location node_id]
```

Syntax Description	counters	Displays ethernet information from the ethernet counters related registers.
	status	Displays ethernet information from the ETHERNET_STATUS register.
	location	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack / slot</i> notation.
		<i>node-id</i>

**Command Default** None

**Command Modes** System Admin EXEC mode

Command History	Release	Modification
	Release 5.2.3	This command was introduced.

**Usage Guidelines** This command provides status for the internal control plane CCC Ethernet connections. Each CCC on the line card (LC) or fabric card (FC) has two dedicated backplane Ethernet connections, one each to the RP0 and RP1 slots. Each connection pass through an Ethernet switch. Hence, there are two segments for each connection, namely, LC/FC to switch, and switch to RP. The counters and link status are related for specific segment of the connection helping in precisely identifying the fault location. For instance, if Ethernet status of CCC on the LC0 does not report any problem (that is, no connectivity issues between LC and the Ethernet switch) but the "Uplink Connection Status" is "Not Available", it indicates that the issue for lack of Ethernet connectivity between CCC driver on RP and LC0 is on the segment connecting the switch and RP.

## Example

This example shows how to view the ccc inventory details:

```
sysadmin-vm:0_RP0# show controller ccc ethernet status location 0/0
Thu Nov  6 15:40:19.177 UTC

CCC Ethernet Status Information For Location: 0/0
-----
Uplink Connection Status to Master CCC Driver on 0/RP1: Available

CCC Ethernet Port 0
-----
LINK_STATUS : Link Valid
LINK_SYNC   : Link Sync obtained
RUDI_C      : NOT SET
RUDI_I      : The core is receiving /I/ ordered sets
RUDI_INVLD  : NOT SET
RXDISPFERR : NOT SET
```

RXNOTINTABLE : NOT SET

CCC Ethernet Port 1

```

-----
LINK_STATUS : Link Valid
LINK_SYNC   : Link Sync obtained
RUDI_C      : NOT SET
RUDI_I      : The core is receiving /I/ ordered sets
RUDI_INVLD  : NOT SET
RXDISPERR   : NOT SET
RXNOTINTABLE : NOT SET

```

sysadmin-vm:0\_RP0# show controller ccc ethernet counters location 0/0

CCC Ethernet Counters Detail For Location: 0/0

Ethernet Port 0

```

-----
RX packets   : 1796109
RX bytes     : 265125327
RX size errors: 0
RX CRC errors : 0
TX packets   : 1793201
TX bytes     : 168747236

```

Ethernet Port 1

```

-----
RX packets   : 1820809
RX bytes     : 266179825
RX size errors: 0
RX CRC errors : 0
TX packets   : 1818744
TX bytes     : 170262340

```

CCC-to-CCC Counter

```

-----
Incoming local      : 4
Incoming packet errors: 0
Incoming filtered   : 2122
Outgoing sent      : 11
Outgoing resent    : 20

```

Response Packet Counters

```

-----
Sent : 3611922
Resent: 0
Errors: 0

```

Other Counters

```

-----
Ethernet runt errors : 0
Header errors       : 1552
Request received    : 3611918
CCC-to-CCC received : 3456
Unknown type received: 0

```

Push Packet Counters

```

-----
Sent : 0
Resent: 0
Errors: 0
Acks : 0
Nacks : 0

```



# show controller ccc event-history

To display card state transition and event information from the CCC (card control chip), use the **show controller ccc event-history** command in the System Admin EXEC mode.

```
show controller ccc [slave] event-history {brief | detail} location [node-id]
```

Syntax Description	slave	Displays card state transitions tracked from the slave CCC driver. Do not use if only one RP is installed in the chassis.
	detail	Displays detailed information about CCC event history.
	brief	Displays brief information about CCC event history.
	location node-id	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation. If node-id is not specified, the output is displayed for all nodes.
Command Default	Displays event history for master CCC driver.	
Command Modes	System Admin EXEC mode	
Command History	Release	Modification
	Release 5.2.3	This command was introduced.

## Example

This example shows ccc inventory details with some failure notifications:

```
sysadmin-vm:0_RP0# show controller ccc event-history brief location 0/2
Tue Aug 5 15:05:00.821 UTC
```

```
CCC Card Event History for: 0/2
```

```
Current State: POWER_UP_FAILED
```

DATE	TIME (UTC)	STATE	EVENT
08/05	14:55:17.449	POWER_UP_FAILED	ev_wdog_timeout
08/05	14:45:31.265	CCC_DRIVER_INIT	if_pwr_up_failed
08/05	14:45:31.260	CHECK_CCC_STATUS	if_pwr_up_failed_again
08/05	14:45:31.258	GET_CCC_INFO	ev_get_ccc_info_done
08/05	14:45:31.223	WAIT_ETH_READY	ev_eth_ready
08/05	14:45:31.157	CHECK_UBLAZE_BOOT	ev_ublaze_boot_ok
08/05	14:45:31.124	PON_UP_WARM	ev_ccc_reset_done
08/05	14:45:17.489	CCC_IN_RESET	ev_pon_up_warm
08/05	14:45:08.921	POWER_UP_FAILED	ev_pon_down_warm
08/05	14:35:07.152	POWER_UP_FAILED	ev_wdog_timeout
08/05	14:25:20.946	CCC_DRIVER_INIT	if_pwr_up_failed
08/05	14:25:20.941	CHECK_CCC_STATUS	if_pwr_up_failed_again
08/05	14:25:20.939	GET_CCC_INFO	ev_get_ccc_info_done

## show controller ccc event-history

```

08/05 14:25:20.923 WAIT_ETH_READY          ev_eth_ready
08/05 14:25:20.887 CHECK_UBLAZE_BOOT       ev_ublaze_boot_ok
08/05 14:25:20.830 PON_UP_WARM           ev_ccc_reset_done

```

```

sysadmin-vm:0_RP0# show controller ccc event-history detail location 0/2
Tue Aug 5 15:04:07.478 UTC

```

```

CCC Card Event History for: 0/2

```

```

Event buffer info:
  Total number of events recorded: 692
  Number of events available for display: 255

```

```

Current State: POWER_UP_FAILED

```

```

EVENT #: 691 (record index = 179)
TIMESTAMP: 2014/08/05 14:55:17.449979 UTC
STATE: POWER_UP_FAILED
EVENT: ev_wdog_timeout
EVENT DESC: CCC watchdog timeout event
ERROR INFO: wdog__0 SysAdmin VM Watchdog stagel:0

EVENT #: 690 (record index = 178)
TIMESTAMP: 2014/08/05 14:45:31.265829 UTC
STATE: CCC_DRIVER_INIT
EVENT: if_pwr_up_failed
ERROR INFO: Failed to enable main power zone:
           failure detected in devices CPU VCC, DB main power (0x1f0d)

EVENT #: 689 (record index = 177)
TIMESTAMP: 2014/08/05 14:45:31.260310 UTC
STATE: CHECK_CCC_STATUS
EVENT: if_pwr_up_failed_again
ERROR INFO: Failed to enable main power zone:
           failure detected in devices CPU VCC, DB main power (0x1f0d)

EVENT #: 688 (record index = 176)
TIMESTAMP: 2014/08/05 14:45:31.258124 UTC
STATE: GET_CCC_INFO
EVENT: ev_get_ccc_info_done
EVENT DESC: Retrieval of CCC info is completed

EVENT #: 687 (record index = 175)
TIMESTAMP: 2014/08/05 14:45:31.223783 UTC
STATE: WAIT_ETH_READY
EVENT: ev_eth_ready
EVENT DESC: Card Ethernet connection is ready

EVENT #: 686 (record index = 174)
TIMESTAMP: 2014/08/05 14:45:31.157299 UTC
STATE: CHECK_UBLAZE_BOOT
EVENT: ev_ublaze_boot_ok
EVENT DESC: CCC MicroBlaze completed boot operation

EVENT #: 685 (record index = 173)
TIMESTAMP: 2014/08/05 14:45:31.124094 UTC
STATE: PON_UP_WARM
EVENT: ev_ccc_reset_done
EVENT DESC: CCC RESET operation is completed

EVENT #: 684 (record index = 172)
TIMESTAMP: 2014/08/05 14:45:17.489647 UTC
STATE: CCC_IN_RESET
EVENT: ev_pon_up_warm

```

```
EVENT DESC: PON executing up_warm_reset entry code

    EVENT #: 683 (record index = 171)
    TIMESTAMP: 2014/08/05 14:45:08.921444 UTC
    STATE: POWER_UP_FAILED
    EVENT: ev_pon_down_warm
EVENT DESC: PON executing down_warm_reset entry code

    EVENT #: 682 (record index = 170)
    TIMESTAMP: 2014/08/05 14:35:07.152959 UTC
    STATE: POWER_UP_FAILED
    EVENT: ev_wdog_timeout
```

# show controller ccc inventory

To display the CCC (card control chip) inventory information, use the **show controller ccc inventory** command in the System Admin EXEC mode.

**show controller ccc inventory** [{**detail** | **summary** | **status** | **version**}] [**location** *node-id*]

Syntax Description	Parameter	Description
	<b>detail</b>	Displays CCC inventory detailed information
	<b>summary</b>	Displays the card inventory summary.
	<b>status</b>	Displays CCC status related information.
	<b>version</b>	Displays CCC version information.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.

**Command Default** Displays all the inventory information for all the nodes.

**Command Modes** System Admin EXEC mode

Command History	Release	Modification
	Release 5.0.0	This command was introduced.
	Release 5.2.3	The command output for the <b>summary</b> keyword was enhanced to display the card state information.

This example shows how to view the ccc inventory information:

```
sysadmin-vm:0_RP0#show controller ccc inventory detail
```

```
Inventory detail information for 0/RP0:
```

```
-----
Card Type                = 1
Platform                 = 4
Board Type               = 0x001e0800
Board HW Version         = 0.2
Card PID                 = NC6-RP (master)
Card Backplane Slot ID  = 0
Card Serial Number       = SAD160801NP
CCC FPGA Version         = 1.0.0
CCC HW Version           = 0x201
CCC Core Version         = 1.17
CCC PON Version          = 1.30
CCC Firmware Version     = 1.18
CCC FPGA Image type      = WORKING
CCC Mac Address 0        = e0:50:72:f4:e8:00
CCC Mac Address 1        = e0:50:72:f4:e8:01
Reboot Reason            = WARM START
Bios Version             = 9.9 PRIMARY
```

```
Zen FPGA Version          = 0.6.3
SDR/VF Mac address start  = e0:50:72:f4:e8:03
SDR/VF Mac address end    = e0:50:72:f4:e8:14
```

```
sysadmin-vm:0_RP0#show controller ccc inventory summary
```

```
CCC Inventory Summary :
```

Location	Card Type	BP ID	Serial Number	HW Ver	Card State
0/RP0	NC6-RP (master)	0	SAD15270129	0.1	CARD_READY
0/RP1	NC6-RP (slave)	1	SAD1527012P	0.1	CARD_READY
0/FC0	NC6-FC	8	SAD1618002F	0.2	WAIT_DEV_INIT
0/FC1	NC6-FC	9	SAD153901ZT	0.2	WAIT_DEV_INIT
0/FC4	NC6-FC	12	SAL1803KQEY	1.0	PON_POWERING_UP
0/FC5	NC6-FC	13	SAD16180043	0.2	WAIT_DEV_INIT
0/0	NC6-10X100G-M-K	16	SAL1650UCN9	0.4	PXE_BOOTING
0/4	NC6-10X100G-M-K	20	SAD154502XU	0.1	CARD_READY



**Note** The terms "master" and "slave" listed in the Card Type column is indicative of the CCC driver role, and not the active or stand-by state of the RP. On the router, CCC drivers on both RPs actively monitor all the modules in the system at the same time. Either of the CCC drivers can be elected as the master, and the other as the slave. However, only the CCC driver that has the "master" role performs the CCC FPD upgrade on the fabric cards.

## show controller ccc notif-history

To display the card notification history from the CCC (card control chip), use the **show controller ccc notif-history** command in the System Admin EXEC mode.

```
show controller ccc [slave] notif-history {brief | detail} location [node-id]
```

Syntax Description	Parameter	Description
Syntax Description	<b>slave</b>	Displays card notification history for the slave CCC driver. Do not use if only one RP is installed in the chassis.
	<b>detail</b>	Displays detailed information about CCC notification history.
	<b>brief</b>	Displays brief information about CCC notification history.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation. If <i>node-id</i> is not specified, the output is displayed for all nodes.
Command Default	Displays notification history for master CCC driver.	
Command Modes	System Admin EXEC mode	
Command History	<b>Release</b>	<b>Modification</b>
	Release 5.2.3	This command was introduced.

### Example

This example shows how to view the ccc inventory details:

```
sysadmin-vm:0_RP0# show controller ccc notif-history brief location 0/4
Thu Nov  6 16:26:56.829 UTC

CCC Card State Notification History for: 0/4

Card State Notification History as seen by Master (0/RP1)
  DATE      TIME (UTC)    NOTIF TYPE          EVENT TYPE
  -----
  11/06     16:24:53.319    CARD_STATE_CHANGE   HW_EVENT_OK
  11/06     16:24:36.467    CARD_STATE_CHANGE   HW_EVENT_POWERED_ON
  11/06     16:24:12.294    CARD_STATE_CHANGE   HW_EVENT_RESET
  11/06     05:53:36.568    CARD_INSERTED       HW_EVENT_OK

sysadmin-vm:0_RP0# show controller ccc slave notif-history brief location 0/4
Thu Nov  6 16:27:04.280 UTC

CCC Card State Notification History for: 0/4

Card Satate Notification History as seen by Slave (0/RP0)
  DATE      TIME (UTC)    NOTIF TYPE          EVENT TYPE
  -----
  11/06     16:24:53.349    CARD_STATE_CHANGE   HW_EVENT_OK
```

```
11/06 16:24:36.453 CARD_STATE_CHANGE HW_EVENT_POWERED_ON
11/06 16:24:13.437 CARD_STATE_CHANGE HW_EVENT_RESET
11/06 15:37:53.674 CARD_INSERTED HW_EVENT_OK
```

# show controller ccc oir-history

To display the (online insertion and removal) OIR events on the chassis, use the **show controller ccc oir-history** command in the System Admin EXEC mode.

**show controller ccc [slave] oir-history rack rack\_number**

<b>Syntax Description</b>	<b>slave</b>	Displays card OIR history as tracked from the slave CCC driver. Do not use if only one RP is installed in the chassis.
	<b>rack rack_number</b>	The OIR information is displayed for the cards on the specified rack.
<b>Command Default</b>	Displays OIR history from the master CCC driver.	
<b>Command Modes</b>	System Admin EXEC mode	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.2.3	This command was introduced.

## Example

This example shows how to view the ccc inventory details:

```
sysadmin-vm:0_RP0# show controller ccc oir-history rack 0
```

```
Cards OIR History of rack: 0
```

```
OIR Events as seen by Master (0/RP0)-
```

DATE	TIME (UTC)	EVENT	LOC	CARD TYPE	SERIAL NO
10/09	16:59:14.280	INSERTED	0/0	NC6-10X100G-M-K	SAL1650UCN9
10/09	16:58:49.064	REMOVED	0/0	NC6-10X100G-M-K	SAL1650UCN9
10/09	16:58:40.215	INSERTED	0/FC0	NC6-FC	SAD1618002F
10/09	16:58:18.158	REMOVED	0/FC0	NC6-FC	SAD1618002F
10/09	16:52:38.251	DISCOVERED	0/FC0	NC6-FC	SAD1618002F
10/09	16:52:38.129	DISCOVERED	0/0	NC6-10X100G-M-K	SAL1650UCN9
10/09	16:52:37.990	DISCOVERED	0/FC4	NC6-FC	SAL1803KQEY
10/09	16:52:37.865	DISCOVERED	0/FC1	NC6-FC	SAD153901ZT
10/09	16:52:37.745	DISCOVERED	0/FC3	NC6-FC	SAL1803KQG3
10/09	16:52:37.518	DISCOVERED	0/RP1	NC6-RP	SAD15270129
10/09	16:52:26.256	DISCOVERED	0/RP0	NC6-RP	SAL171636WW



# show controller ccc power

To display the card power information, use the **show controller ccc power** command in the System Admin EXEC mode.

**show controller ccc power** [{detail | summary}] [location *node-id*]

Syntax Description	detail	Displays the card power details.
	summary	Displays the card power summary.
	location <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.

**Command Default** Displays the power summary followed by the detailed power information for all nodes.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

This example shows how to view the ccc (card control chip) power detailed information:

```
sysadmin-vm:0_RP0#show controller ccc power detail
```

```
Fri Jan 15 23:10:58.567 UTC
```

```
Power detail : Zone information for 0/RP0:
```

```
-----
```

Power Zone	Power Status	Power Contrl	Power Fault
1	OK	SET	--
2	OK	SET	--
3	--	--	--
4	--	--	--
5	--	--	--
6	--	--	--

```
Power detail : Zone information for 0/RP1:
```

```
-----
```

Power Zone	Power Status	Power Contrl	Power Fault
1	OK	SET	--
2	OK	SET	--
3	--	--	--
4	--	--	--
5	--	--	--
6	--	--	--

# show controller ccc reset-history

To display the CCC (card control chip) reset-history information, use the **show controller ccc reset-history** command in the System Admin EXEC mode.

**show controller ccc reset-history** [{onboard | onchip}] [location *node-id*]

Syntax Description		
<b>onboard</b>		Displays CCC reset history in onboard EEPROM.
<b>onchip</b>		Displays on-chip reset history entries since last CCC cold reset.
<b>location</b> <i>node-id</i>		Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.

**Command Default** Displays on-chip reset history followed by on-board reset history for all nodes.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

This example shows how to view the controller ccc onchip reset-history:

```
sysadmin-vm:0_RP0#show controller ccc reset-history onchip location 0/1

Fri Jan 15 23:14:13.758 UTC

--location 0/1--
TimeofDay      : Sat Jan 1 17:11:29 2011
Uptime         : 17:11:50
Resets         : 2

   proc Reset      Reset      Register  Register  Reset
  idx  IDX  Source      Command      WORD0      WORD1      Time
-----
0   0    uBlaze      AssrtHR      0x00000B10 0x00000000 Thu Jan 1 00:00:00 1970
1   0    uBlaze      DeAssrtHR    0x00000B32 0x00000006 Thu Jan 1 00:00:06 1970
-More--
```

# show controller ccc register

To display controller CCC (card control chip) register information, use the **show controller ccc register** command in System Admin EXEC mode.

**show controller ccc register** {**group** | **offset** *address* [**location** *node-id*] | **range** *start-address* *end-address* [**location** *node-id*]}

Syntax Description	group	Specifies the register group ID for ccc register information.
	<b>offset</b> <i>address</i>	Specifies the offset address for ccc register information. Specify the address as a hexadecimal value. Range is from 0x0 to 0x17FFF.
	<b>range</b> <i>start-address</i> <i>end-address</i>	Specifies the range for ccc register information. Specify a start address in hexadecimal format and an end address in hexadecimal format. Range for start address and end address is from 0x0 to 0x17FFF.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
<b>Command Default</b>	None	
<b>Command Modes</b>	System Admin EXEC	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.

This example shows how to display controller ccc register range information.

```
sysadmin-vm:0_RP0#show controller ccc register range 0x0 0x4 location 0/RP0
Fri Jan 15 23:17:42.492 UTC
      Register      Register
Location  Offset      Value
-----
0/rp0     0x0         0x111
          0x4         0x0
```

This example shows how to display controller ccc register group information.

```
sysadmin-vm:0_RP0# show controller ccc register group 0 location 0/RP0
Fri Jan 15 23:18:05.697 UTC
LOCATION  IDX  REGISTER NAME                OFFSET  VALUE
-----
0/RP0   0    HW_REVISION                  0x0    0x111
        1    GLOBAL_RESET_STATUS         0x4    0x0
        2    GLOBAL_RESET_COMMAND       0x8    0x0
        3    CARD_AND_SLOT              0xC    0x100
        4    ALPHA_MESSAGE              0x10   0x30304642
        5    CARD_PRESENCE              0x14   0x6C3FA2
        6    CARD_ALERT                  0x18   0x0
        7    HW_JUMPERS                  0x1C   0x0
        8    GPIO_INPUT_15_0            0x20   0x0
        9    GPIO_INPUT_31_16          0x24   0x0
```

## show controller ccc register

10	GPIO_INPUT_47_32	0x28	0x0
11	GPIO_OUTPUT_15_0	0x2C	0x0
12	GPIO_OUTPUT_31_16	0x30	0x0
13	GPIO_OUTPUT_47_32	0x34	0x0
14	GPIO_OUTPUT_ENABLE_15_0	0x38	0x0
15	GPIO_OUTPUT_ENABLE_31_16	0x3C	0x0
16	GPIO_OUTPUT_ENABLE_47_32	0x40	0x0
17	GP_INTERRUPTS	0x44	0xC049
18	CPU_SIGNALS	0x48	0x40
19	POWER_ZONE_STATUS	0x4C	0x3
20	POWER_ZONE_CONTROL	0x50	0x3

## show controller ccc trace

To display the CCC (card control chip) trace information, use the **show controller ccc trace** command in the System Admin EXEC mode.

```
show controller ccc trace {all trace-name} location node-id [{all trace-attribute}]
```

<b>Syntax Description</b>	<i>trace-name</i>	Trace name.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	<i>trace-attributes</i>	Trace attribute.
	<b>all</b>	Displays all the details.
<b>Command Default</b>	None	
<b>Command Modes</b>	System Admin EXEC mode	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.
	Release 5.2.3	New trace names were added.

This example shows how to view the controller ccc trace details:

```
sysadmin-vm:0_RP0#show controller ccc fpdmgr location 0/3

Mon Aug 12 11:06:13.956 UTC
-----
12.15.56.012602880:Passing board hw version is 0.2 for fpd CCC FPGA
12.15.56.012882560:Creating instagt_handle rc = 0
12.15.56.551802880:SUCCESS: connected to sm
12.15.56.551987712:FPD register done 0x18362c0
12.15.56.552092032:Passing board hw version is 0.2 for fpd CCC Power-On
12.15.56.552096384:FPD register done 0x18aa630
12.15.56.552121600:Passing board hw version is 0.2 for fpd Ethernet Switch
12.15.56.552123392:FPD register done 0x18aa7e0
12.15.56.558257152:Connected to platform service successful,
saying hello12.15.56.558303488:Requesting nodeid12.15.56.558320512:Requesting
local ip address12.15.56.603181568:SM CONNECT CB returns 0
12.15.56.644174464:Platform nodeid registration response callback12.15.56.644229888:Got
my Nodeid 0/3 (R/S/I)12.15.56.727803264:ds_connect() returned success
12.15.56.727861888:Got ip address registration response
12.15.56.727969024:Got ip address callback
12.15.56.728066176:Activating fpd server with ip 0xc0004c01
12.15.56.785868288:SDORM init success
12.15.56.785995264:Set FPD Ethernet Switch state READY after SDRAM ready
12.15.56.791157376:CLR FPD Ethernet Switch status GOLDEN
```

```
12.15.56.791162880:Get fpd Ethernet Switch image version 1.32
12.15.56.815722752:Set FPD CCC Power-On state READY after SDROM ready
12.15.56.815745536:CLR FPD CCC Power-On status GOLDEN
12.15.56.815746432:Get fpd CCC Power-On image version 1.30
12.15.56.816411392:Set FPD CCC FPGA state READY after SDROM ready
12.15.56.816432384:CLR FPD CCC FPGA status GOLDEN
12.15.56.816433280:Get fpd CCC FPGA image version 1.14
12.15.56.817161472:Connected to DS, searching for confd
12.15.56.862450048:ds_registered_service_cb called
12.15.56.862451328:ds_registered_service_cb: Status is 0
12.15.56.862451968:Checking has_spininfo
12.15.56.862452608:DS entry found
12.15.56.862453504:fpd_client_connect_confid called
12.15.56.862475520:No service info available for confd
12.15.56.862476160:Return from ds_registered_service_cb
12.15.56.862498048:Confid DS entry found notification
12.15.56.862498688:fpd_client_connect_confid called
12.15.56.862564480: fpd_client_connect_confid(362): DS entry(0) svc confd, ip=192.0.0.1,
port=4565, ha_role=ACTIVE issu_role=UNKNOWN, scope=SYSTEM
12.15.56.862585216:setup_fpd_confid_connection called on node location =
0/312.15.56.863445632:Registering Subscription Socket
12.15.56.894000000:Subscription point = 35
12.15.56.920322048:read_conf: return tmp is 1, (return code = 0)
12.15.56.920324096:FPD auto-upgrade DISABLED
12.15.59.492183808:successful connection to Instagt service
12.15.59.492184448:Start Install Agt Notification Registration
12.15.59.492334336:instagt_register_for_notif rc=0
```







# show controller fabric fgid program-error

To display the controller fabric FGID program-error, use the **show controller fabric fgid program-error** command in the System Admin EXEC mode.

**show controller fabric fgid program-error** {**all** | *startfgid endfgid*}

Syntax Description	all	Displays all FGID program-error.
	<i>startfgid</i>	Specifies the start FGID id. Range is from 0 to 524287.
	<i>endfgid</i>	Specifies the end FGID id. Range is from 0 to 524287.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command for diagnostics. Execution time of the command depends on the number of FGIDs. The total number of erroneous FGIDs are displayed. However, only 10 FGIDs that have errors are displayed. To identify if a particular FGID has an error, update the range of the FGID in the command.

This example shows how to view the controller fabric fgid program-error:

```
sysadmin-vm:0_RP0# show controller fabric fgid program-error 0 524287
```

```
Rack 0:
  Fgids: 32240 32241 32242 32243 32244 32245 32246 32247 32248 32249 ...
  Total: 14
```

## show controller fabric fgid resource

To display the controller fabric FGID allocated resource information, use the **show controller fabric fgid resource** command in the System Admin EXEC mode.

```
show controller fabric fgid resource {all | sdr sdr-name {all | application application-name id
fgid-id elements num-elements}}
```

Syntax Description		
<b>all</b>		Displays FGID resource information for all SDRs on the current system.
<b>sdr</b>		Name of the SDR. The <b>default-sdr</b> is the only available option.
<i>sdr-name</i>		Specifies the name of the SDR. The <b>default-sdr</b> is the only available option.
<b>all</b>		Specifies all secure domain routers.
<b>application</b>		Specifies the allocated FGID resource per application.
<i>application-name</i>		Specifies the application name. The default available options are: <ul style="list-style-type: none"> <li>• MRIB-ipv4-default</li> <li>• MRIB-ipv6-default</li> </ul>
	<b>Note</b>	The applications created by the users are also listed.
<b>id</b> <i>fgid-id</i>		Indicates the starting fgid number. Range is from 0 to 524288
<b>elements</b> <i>num-elements</i>		Indicates the fabric FGIDs. The number ranges from 0 to 524288.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Only if FGIDs are used by the application, the information is displayed.

This example shows how to view the controller fabric fgid resource information:

```
sysadmin-vm:0_RP0# show controller fabric fgid resource sdr default-sdr application some_app
id 0 elements 524287
```

```
=====
Displaying FGID Info for:
```

```
SDR: default-sdr      APPLICATION : some_app
 32240, 32241, 32242, 32243, 32244, 32245, 32246, 32247, 32248, 32249
 32250, 32251, 32252, 32253, 32254, 32255, 32256, 32257, 32258, 32259
 32260, 32261, 32262, 32263, 32264, 32265, 32266, 32267, 32268, 32269
 32270, 32271, 32272, 32273, 32274, 32275, 32276, 32277, 32278, 32279
 32280, 32281, 32282, 32283, 32284, 32285, 32286, 32287, 32288, 32289
 32290, 32291, 32292, 32293, 32294, 32295, 32296, 32297, 32298, 32299
 32300, 32301, 32302, 32303, 32304, 32305, 32306, 32307, 32308, 32309
 32310, 32311, 32312, 32313, 32314, 32315, 32316, 32317, 32318, 32319
 32320, 32321, 32322, 32323, 32324, 32325, 32326, 32327, 32328, 32329
 32330, 32331, 32332, 32333, 32334, 32335, 32336, 32337, 32338, 32339
 32340, 32341, 32342, 32343, 32344, 32345, 32346, 32347, 32348, 32349
 32350, 32351, 32352, 32353, 32354, 32355, 32356, 32357, 32358, 32359
 32360, 32361, 32362, 32363, 32364, 32365, 32366, 32367, 32368, 32369
 32370, 32371, 32372, 32373, 32374, 32375, 32376, 32377, 32378, 32379
 32380, 32381, 32382, 32383, 32384, 32385, 32386, 32387, 32388, 32389
 32390, 32391, 32392, 32393, 32394, 32395, 32396, 32397, 32398, 32399
 32400, 32401, 32402, 32403, 32404, 32405, 32406, 32407, 32408, 32409
 32410, 32411, 32412, 32413, 32414, 32415, 32416, 32417, 32418, 32419
 32420, 32421, 32422, 32423, 32424, 32425, 32426, 32427, 32428, 32429
 32430, 32431, 32432, 32433, 32434, 32435, 32436, 32437, 32438, 32439
 32440, 32441, 32442, 32443, 32444, 32445, 32446, 32447, 32448, 32449
 32450, 32451, 32452, 32453, 32454, 32455, 32456, 32457, 32458, 32459
 32460, 32461, 32462, 32463, 32464, 32465, 32466, 32467, 32468, 32469
 32470, 32471, 32472, 32473, 32474, 32475, 32476, 32477, 32478, 32479
 32480, 32481, 32482, 32483, 32484, 32485, 32486, 32487, 32488, 32489
 32490, 32491, 32492, 32493, 32494, 32495, 32496, 32497, 32498, 32499
 32500, 32501, 32502, 32503, 32504, 32505, 32506, 32507, 32508, 32509
 32510, 32511, 32512, 32513, 32514, 32515, 32516, 32517, 32518, 32519
 32520, 32521, 32522, 32523, 32524, 32525, 32526, 32527, 32528, 32529
 32530, 32531, 32532, 32533, 32534, 32535, 32536, 32537, 32538, 32539
 32540, 32541, 32542, 32543, 32544, 32545, 32546, 32547, 32548, 32549
 32550, 32551, 32552, 32553, 32554, 32555, 32556, 32557, 32558, 32559
 32560, 32561, 32562, 32563, 32564, 32565, 32566, 32567, 32568, 32569
 32570, 32571, 32572, 32573, 32574, 32575, 32576, 32577, 32578, 32579
 32580, 32581, 32582, 32583, 32584, 32585, 32586, 32587, 32588, 32589
 32590, 32591, 32592, 32593, 32594, 32595, 32596, 32597, 32598, 32599
 32600, 32601, 32602, 32603, 32604, 32605, 32606, 32607, 32608, 32609
 32610, 32611, 32612, 32613, 32614, 32615, 32616, 32617, 32618, 32619
 32620, 32621, 32622, 32623, 32624, 32625, 32626, 32627, 32628, 32629
 32630, 32631, 32632, 32633, 32634, 32635, 32636, 32637, 32638, 32639
```

# show controller fabric fgid statistics

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

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

Syntax Description		
	<b>all</b>	Specifies all FGID resource statistical information for the logical router and FGID resource pools.
	<b>sdr</b>	Specifies FGID resource statistics about the secure domain router (SDR).
	<b>pool</b>	Specifies FGID statistical information about the resource pool.
	<b>system</b>	Specifies FGID resource statistics for the entire physical router.
	<b>brief</b>	Specifies brief information about FGIDs.
	<b>detail</b>	Specifies detailed information about FGIDs.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

This example shows how to view the controller fabric fgid resource statistical information:

```
sysadmin-vm:0_RP0#show controller fabric fgid statistics all
```

```
Fabric FGID Resource Statistics Information:
```

```
System wide Fabric multicast resource statistics:
```

```

Total number of FGIDS in the system is 524288
Current number of InUse FGIDS in the system is 0
High Water Mark of InUse FGIDS in the system is 0

```

```
Per SDR basis Fabric multicast resource statistics:
```

```

                SDR                Current    HighWater Mark
                Name                FGIDs      InUse FGIDs
-----
                default-sdr                0                0

```

```
Per pool basis Fabric multicast resource statistics:
```

```

Pool                Pool                Pool    Total    Current    High Water Mark

```

ID	Name	Type	FGIDs	FGIDs	InUse FGIDs
0	SDR	Shared	514048	0	0
1	NON_SDR	Dedicated	10240	0	

# show controller fabric fgid trace

To display the FGID trace information, use the **show controller fabric fgid trace** command in the System Admin EXEC mode.

**show controller fabric fgid trace** {*alltrace-name*} **location** *node-id* [{*alltrace-attribute*}]

Syntax Description		
<i>trace-name</i>		Trace name.
<b>location</b> <i>node-id</i>		Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	<b>Note</b>	Specify only the Route Processor (RP) location.
<i>trace-attribute</i>		Trace attribute.
<b>all</b>		Displays all the details.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command for FGID process diagnostics. This command displays information only from the Route Processor (RP).

This example shows how to view the controller fabric fgid trace information:

```
sysadmin-vm:0_RP0#show controller fabric fgid trace all location 0/RP0

Fri Aug 23 10:17:49.373 UTC
-----
19.49.04.359137280:FGID Server CTRACE init done
19.49.04.409993216: @msc_entity id="0/2123" display_name="fgid"
19.49.04.437780480:msc_event entity_id="0/2123/2123" time="137607774439000000"
label="connecting to pm_lib with endpoint (0x0, 2020) (hdl=0x0x27983c0)"
type="Connection" completed="false" @msc_source pairing_id="0/2123/con_0x27983c0"
type="Lane"
19.49.04.452984832:CIPC:CONN (hdl=0x2798810):cipc_connect():invoked on endpoint
(0.0.0.0, 2020)
19.49.04.454033408:FGID Server PM init done
19.49.04.541065216: @msc_entity id="0/2123" display_name="fgid"
19.49.04.541065216:msc_event entity_id="0/2123/2123" time="1376077744542000000"
label="requesting connection to platform_local (CAPI hdl=0x27b48f0, CIPC hdl = 0x27b5130)"
type="Connection" completed="false"
19.49.04.541065216:DS handle 0x27b48f0 instantiated for platform_local client handle
19.49.04.573046784: @msc_entity id="0/2123" display_name="fgid"
```

```
19.49.04.583008256:@msc_event entity_id="0/2123/2123" time="1376077744584000000"  
label="requesting connection to calvados_ds (CAPI hdl=0x27d7ac0, CIPC hdl = 0x27d7ef0)"  
type="Connection" completed="false"  
19.49.04.583008256:@msc_event entity_id="0/2123/2123" time="1376077744584000000"  
label="connecting to calvados_ds with endpoint (0x7f000001, 7400) (hdl=0x0x27d7ac0)"  
type="Connection" completed="false" @msc_source pairing_id="0/2123/con_0x2  
--More--
```

# show controller fabric fsdb-aggregator trace

To display the FSDB-aggregator trace information, use the **show controller fabric fsdb-aggregator trace** command in the System Admin EXEC mode.

**show controller fabric fsdb-aggregator trace** *trace-name* **location** *node-id* *trace-attribute*

Syntax Description		
	<i>trace-name</i>	Trace name.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
		<b>Note</b> Specify only the Route Processor (RP) location.
	<i>trace-attribute</i>	Trace attribute.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command for FSDB (fabric system database) aggregator functionality diagnostics. This command displays information only from the Route Processor (RP).

This example shows how to view the controller fabric fsdb-aggregator trace information:

```
sysadmin-vm:0_RP0#show controller fabric fsdb-aggregator trace all location 0/RP0
Fri Aug 23 10:41:12.553 UTC
-----
19.49.03.688914432:FSDB Aggregator CTRACE init done
19.49.03.767557632: @msc_entity id="0/2111" display_name="fsdbagg"
19.49.03.809500672:@msc_event entity_id="0/2111/2111" time="1376077743811000000"
label="connecting to pm_lib with endpoint (0x0, 2020) (hdl=0x0x15293c0)" type="Connection"
completed="false" @msc_source pairing_id="0/2111/con_0x15293c0" type="Lane"
19.49.03.825753600:CIPC:CONN (hdl=0x1529810):cipc_connect():invoked on endpoint
(0.0.0.0, 2020)
19.49.03.826802176:FSDB Aggregator PM init done
19.49.03.973602816: @msc_entity id="0/2111" display_name="fsdbagg"
19.49.03.973602816:@msc_event entity_id="0/2111/2111" time="1376077743975000000"
label="requesting connection to platform_local (CAPI hdl=0x1545900, CIPC hdl = 0x1546140)"
type="Connection" completed="false"
19.49.03.973602816:DS handle 0x1545900 instantiated for platform_local client handle
19.49.04.011010048: @msc_entity id="0/2111" display_name="fsdbagg"
19.49.04.036700160:@msc_event entity_id="0/2111/2111" time="1376077744037000000"
label="requesting connection to calvados_ds (CAPI hdl=0x1568ad0, CIPC hdl = 0x1568f00)"
type="Connection" completed="false"
19.49.04.036700160:@msc_event entity_id="0/2111/2111" time="1376077744037000000"
label="connecting to calvados_ds with endpoint (0x7f000001, 7400) (hdl=0x0x1568ad0)"
```



```
type="Connection" completed="false" @msc_source pairing_id="0/2111/con_0x1  
--More--
```

# show controller fabric fsdb-pla

To display plane availability status information, use the **show controller fabric fsdb-pla** command in the System Admin EXEC mode.

**show controller fabric fsdb-pla rack** {*rack-number* [**destination** *id*] | **all**}

Syntax Description		
<b>rack-number</b>	<i>rack-number</i>	Specifies the rack number. The value can range from 0 to 15 or from F0 to F3.
<b>destination id</b>	<i>id</i>	Indicates the destination. The <i>id</i> can range from 0 to 1023 or can be provided in the asic location format (R/S/A).
<b>all</b>		Displays plane availability status of all the racks.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Only one rack (R0) and **all** options are supported.

This example shows how to view the controller fabric plane availability status information:

```
sysadmin-vm:0_RP0#show controller fabric fsdb-pla rack 0 destination 1

Amba id: 1(0/0/1)
=====
plane id:1
-----
Asic      Reachability mask          Links
-----
0         0x0000200200000000-0000080000000000    3
1         0x0002022000000000-0000000000000000    3

plane id:2
-----
Asic      Reachability mask          Links
-----
0         0x0000200200000000-0000080000000000    3
1         0x0002022000000000-0000000000000000    3

plane id:3
-----
Asic      Reachability mask          Links
-----
0         0x0000200200000000-0000080000000000    3
```

1            0x0002022000000000-0000000000000000            3

# show controller fabric fsdb-server trace

To display the FSDB-server information, use the **show controller fabric server trace** command in the System Admin EXEC mode.

**show controller fabric fsdb-server trace** {all *trace-name*} **location** *node-id* [{all *trace-attribute*}]

Syntax Description		
	<i>trace-name</i>	Trace name.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
		<b>Note</b> Specify only the Route Processor (RP) location.
	<i>trace-attribute</i>	Trace attribute.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command for FSDB (fabric system database) server functionality diagnostics. This command displays information only from the Route Processor (RP).

This example shows how to view the controller fabric fsdb-server trace information:

```
sysadmin-vm:0_RP0#show controller fabric fsdb-server trace all location 0/RP0

Fri Aug 23 10:35:06.638 UTC
-----
19.49.03.090701824:FSDB Server CTRACE init done
19.49.03.177733632: @msc_entity id="0/2104" display_name="fsdb"
19.49.03.242745344:msc_event entity_id="0/2104/2104" time="1376077743244000000"
label="connecting to pm_lib with endpoint (0x0, 2020) (hdl=0x0x2501110)"
type="Connection" completed="false" @msc_source pairing_id="0/2104/con_0x2501110"
type="Lane"
19.49.03.249561088:CIPC:CONN (hdl=0x2501560):cipc_connect():invoked on endpoint
(0.0.0.0, 2020)
19.49.03.378535936: @msc_entity id="0/2104" display_name="fsdb"
19.49.03.378535936:msc_event entity_id="0/2104/2104" time="1376077743379000000"
label="requesting connection to platform_local (CAPI hdl=0x251d640, CIPC hdl = 0x251de80)"
type="Connection" completed="false"
19.49.03.378535936:DS handle 0x251d640 instantiated for platform_local client handle
19.49.03.396886016: @msc_entity id="0/2104" display_name="fsdb"
19.49.03.453509120:msc_event entity_id="0/2104/2104" time="1376077743454000000"
label="requesting connection to calvados_ds (CAPI hdl=0x2540a00, CIPC hdl = 0x2540e30)"
type="Connection" completed="false"
19.49.03.453509120:msc_event entity_id="0/2104/2104" time="1376077743454000000"
```

```
label="connecting to calvados_ds with endpoint (0x7f000001, 7400) (hdl=0x0x2540a00)"  
  type="Connection" completed="false" @msc_source pairing_id="0/2104/con_0x2540a00"  
type="Lane"  
--More--
```

# show controller fabric health

To display the general condition of the fabric sub-system, use the **show controller fabric health** command in the System Admin EXEC mode.

## show controller fabric health

**Syntax Description** This command has no keywords or arguments.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use the command for diagnostics only.

This example shows how to view the general information of the fabric controller:

```

sysadmin-vm:0_RP0#show controller fabric health

Mon Jul 23 08:30:56.170 UTC

Fabric System Health
-----
Flags: T - Total,      U - Up,      A - Admin Down
       L - LCC,        M - Mcast Down, Y - Yes
       F - FCC,        D - Down,    N - No or Not Ok
       V - Valid,

Collaborator Process State:
-----
  FSDB Aggregator: OK
  +-----+
  |Rack id   | 0|
  +-----+
  |FSDB status|Ok|
  +-----+
  |SFE status |Ok|
  +-----+

Router Health:
-----

Rack   Planes SFE Asics   Fia Asics
T/L/F  U/M/D/A T/U/D    T/U/D
-----
1/1/0  2/0/4/1 6/6/0    15/8/7

Plane Admin Plane  Racks  Data
id    state state  in issue drop/error
-----
0     UP    DN     1      No

```

1	DN	DN	1	Yes
2	UP	UP	0	Yes
3	UP	UP	0	Yes
4	UP	DN	1	No
5	UP	DN	1	No

-----

## Rack Health:

-----

Rack: 0, Type: LCC

SFE Asics T/U/D	FIA Asics T/U/D	Planes U/M/D	Amba T/V
6/6/0	15/8/7	2/0/4	15/8

-----

Plane id	Plane state	SFE Asics T/U/D	Amba Reachable
0	DN	0/0/0	0
1	DN	2/2/0	0
2	UP	2/2/0	8
3	UP	2/2/0	8
4	DN	0/0/0	0
5	DN	0/0/0	0

-----

# show controller fabric link port

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

```
show controller fabric link port fia [{link-location | all}] [state {down | mismatch | up}] [{brief | detail}]
```

```
show controller fabric link port {s1 | s2 | s3} [{link-location | all}] [{state {down | mismatch | up} | statistics}] [{brief | detail}]
```

Syntax Description		
<b>port</b>		Displays the link information for the selected fabric port: <ul style="list-style-type: none"> <li>• fia</li> <li>• s1</li> <li>• s3</li> </ul>
<b>fia</b>		Displays the information of the fabric interface ASIC (fia) link port.
<b>s1</b>		Displays the information of the s1 link port.
<b>s2</b>		Displays the information of the s2 link port.
<b>s3</b>		Displays the information of the s3 link port.
<b>statistics</b>		Displays the statistics.
<i>link-location</i>		Displays the fabric link information for the specified link-location: <ul style="list-style-type: none"> <li>• <i>R</i>—Rack. Range is from 0 to 15 or F0 to F3.</li> <li>• <i>S</i>—Slot. Range is from 0 to 7 or FC0 to FC11.</li> <li>• <i>A</i>—ASIC. Range is from 0 to 5.</li> <li>• <i>L</i>—Link. Range is from 0 to 127.</li> </ul>
<b>all</b>		Displays all the fabric link information for specified ports.
<b>state</b>		Displays the link state.
<b>down</b>		Displays links information of the specified ports that are in down state.
<b>mismatch</b>		Displays links information of the specified ports whose operational state and admin state do not match.



<b>up</b>	Displays links information of the specified ports that are in up state.
<b>brief</b>	Displays summarized fabric link information.
<b>detail</b>	Displays detailed fabric link information.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.

**Usage Guidelines** The supported link ports are FIA (fabric interface ASIC), s1, and s3.

This example shows how to view the controller fabric link port information:

```
sysadmin-vm:0_RP0#show controller fabric link port s1 0/FC1/0/3 detail
```

```
Mon Jul 23 08:34:55.121 UTC
```

Sfe Port R/S/A/P	Admin /Oper State	Other End	Near-end Bport	Far-end Bport
-----				
0/FC1/0/3	UP/DN	0/1/2/14		

Timestamp	Event (s)
-----	
2013 Jul 23 01:48:53.000	OPER_DN
2013 Jul 23 02:08:22.000	OPER_UP
2013 Jul 23 02:15:44.000	OPER_DN
2013 Jul 23 02:15:47.4294	OPER_UP
2013 Jul 23 02:18:00.000	OPER_DN

# show controller fabric plane

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

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

Syntax Description		
	<i>plane-id</i>	Plane number. Range is from 0 to 5.
	<b>all</b>	Displays information about all the system fabric planes.
	<b>statistics</b>	Displays plane statistics.
	<b>brief</b>	Displays brief information about the system fabric plane or plane statistics.
	<b>detail</b>	Displays detailed information about the system fabric plane or plane statistics.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	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.

This example shows how to view the system fabric plane information:

```
sysadmin-vm:0_RP0#show controller fabric plane 3
  Plane Admin Plane   up->dn  up->mcast
  Id   State State     counter counter
-----
  3    UP   DN         0         0
```

## show controller fabric sfe

To display information about fabric ASICs, use the **show controller fabric sfe** command in the System Admin EXEC mode.

```
show controller fabric sfe {b2b | fia | s123 | s13 | s2} {asic-location | all} [{brief | detail}]
```

Syntax Description		
<b>b2b</b>		Displays b2b (back to back) asic information.
<b>fia</b>		Displays fia (fabric interface asic) information
<b>s123</b>		Displays information about the s123 asic of the switch fabric element.
<b>s13</b>		Displays information about the s13 asic of the switch fabric element.
<b>s2</b>		Displays information about the s2 asic of the switch fabric element.
<i>asic-location</i>		Specifies the ASIC location: <ul style="list-style-type: none"> <li>• <i>R</i>—Rack. Range is from 0 to 15 or F0 to F3.</li> <li>• <i>S</i>—Slot. Range is from 0 to 7 or FC0 to FC11.</li> <li>• <i>A</i>—ASIC. Range is from 0 to 5.</li> </ul>
<b>all</b>		Displays all ASICs information about the switch fabric elements.
<b>brief</b>		Displays summarized information.
<b>detail</b>		Displays detailed information.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** To view the ASIC operating state, use the **show controller fabric sfe** command.



**Note** Only FIA and s123 asics are supported in this release. The b2b, s13, and s2 asics are not supported in this release.

This example shows how to view the detailed information about a specific switch fabric element:

```
sysadmin-vm:0_RP0# show controller fabric sfe s123 0/FC1/0 detail
Mon Jul 23 08:32:27.325 UTC
```

Sfe R/S/A	Admin State	Oper State
0/FC1/0	UP	UP

  

Timestamp	Event(s)
2012 Jul 22 23:51:25.000	OPER_UP

```
sysadmin-vm:0_RP0#
```

This example shows how to view the brief information about a specific switch fabric element:

```
sysadmin-vm:0_RP0# show controller fabric sfe s123 all
Wed Aug 7 09:00:44.600 UTC
```

Sfe R/S/A	Admin State	Oper State
0/FC0/0	UP	UP
0/FC0/1	UP	UP

# show controller fabric standby plane

To display the system fabric plane information from the standby process of the FSDB aggregator, use the **show controller standby fabric plane** command in the System Admin EXEC mode.

```
show controller fabric standby plane {plane-id | all} [statistics] [{brief | detail}]
```

Syntax Description		
	<i>plane-id</i>	Plane number. Range is from 0 to 5.
	<b>all</b>	Displays information about all the system fabric planes.
	<b>statistics</b>	Displays plane statistics.
	<b>brief</b>	Displays brief information about the system fabric plane or plane statistics.
	<b>detail</b>	Displays detailed information about the system fabric plane or plane statistics.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use the **show controller standby fabric plane** command for diagnostics only.

This example shows how to view the system fabric plane information from the standby process of the FSDB aggregator:

```
sysadmin-vm:0_RP0#show controller fabric standby plane 3
Wed Aug  7 09:58:32.671 UTC

Plane Admin Plane   up->dn  up->mcast
Id   State State   counter counter
-----
3    UP   DN           0         0
```

# show controller sfe driver

To display the sfe driver information, use the **show controller sfe driver rack** command in the System Admin EXEC mode.

**show controller sfe driver rack** *rack-number*

<b>Syntax Description</b>	<i>rack-number</i>	Specifies the rack number from which to display information.				
<b>Command Default</b>	None					
<b>Command Modes</b>	System Admin EXEC					
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>Release 5.0.0</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	Release 5.0.0	This command was introduced.	
Release	Modification					
Release 5.0.0	This command was introduced.					
<b>Usage Guidelines</b>	The <b>show controller sfe driver rack</b> command is used to view whether the driver is connected with collaborator processes, libraries, and ASICs state. Used for diagnostics only.					

This example shows how to view the controller sfe driver information from the rack:

```

sysadmin-vm:0_RP0#show controller sfe driver rack 0

Mon Aug 12 06:18:01.497 UTC
Mon Aug 12 06:18:01.518 UTC

=====
SFE Driver information
=====

Driver Version: 1 (1.1)

Functional role: Active, ISSU role: NA
Rack: 0/RP0, Type: lcc, Number: 0, IP Address: 192.0.0.1
Startup time : 1970 Jan 1 00:00:00.000
Availability Masks :
    Card: 0x1      Asic: 0x3      Exp Asic: 0x3
Unicast/Multicast (ratio) : 0
+-----+
| Process | Connection | Registration | Connection | DLL |
| /Lib    | status     | status       | requests   | registration |
+-----+
| PM      | Active     | n/a          | 1          | n/a |
| PL-LOCAL| Active     | Active       | 1          | n/a |
| FSDB    | Active     | Active       | 1          | n/a |
| FGID    | Active     | Active       | 1          | n/a |
| CM      | Active     | Active       | 1          | n/a |
--More--

```

## show controller sfe link-info rx

To display the sfe receiver link information, use the **show controller sfe link-info rx** command in the System Admin EXEC mode.

```
show controller sfe link-info rx start-link-num end-link-num {flap | topo} instance {asic-instance | all} location {node-id | all} [detail]
```

Syntax Description		
	<i>start-link-num</i>	Specifies the first value of a range of values.
	<i>end-link-num</i>	Specifies the last value of a range of values.
	<b>flap</b>	Displays link flap information.
	<b>topo</b>	Displays topology information.
	<b>instance</b>	Indicates an ASIC instance.
	<i>asic-instance</i>	Displays link information for a specific ASIC instance. Range is from 0 to 5.
	<b>all</b>	Displays link information of all ASIC instances.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	<b>detail</b>	Displays detailed information.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use the **topo** keyword to view the topological information. When the **topo** keyword is used, the **Flag** column in the example output indicates the reason why the link is not operational.

To identify the number of times the link fluctuated, use the **flap** keyword. The **flap** keyword is used only for diagnostics. The **detail** keyword displays the link history information. When the **detail** keyword is used, the **Down Reason** column in the example output indicates the reason why the link is down.

This example shows how to view the controller sfe rx link information:

```
sysadmin-vm:0_RP0#show controller sfe link-info rx 2 3 topo instance all location all
```

```
Mon Aug 12 08:14:27.568 UTC
```

```
-----
```

## show controller sfc link-info rx

Node ID: 0\_RP0 Instance: 0

## Flags:

D - Power Down, I - Init/deinit, T - Invalid Topo, B - Bad link conn  
 E - Rcvr End Rst, F - No Far-end, C - CRC error, S - Size error  
 G - Code Grp err, M - Misalign, L - No Sig Lock, R - No Reachability Cells

```
-----
Link ID      Link  Asic  Plane  EN/   Flags      Far-End      Far-End
              Spd  Stg. /Group Oper   Link (FSDB)  Link (HW)
              (Gbps)
-----
0/FC0/0/2    11.5 S1    0/0   UP/DN  D.....  NC           n/a
0/FC0/0/3    11.5 S1    0/0   UP/DN  D.....  NC           n/a
-----
```

-----More--



## show controller sfe link-info tx

To display the sfe transmitter link information, use the **show controller sfe link-info rx** command in the System Admin EXEC mode.

**show controller sfe link-info tx** *start-link-num end-link-num* **instance** {*asic-instance* | **all**} **location** {*node-id* | **all**} [**detail**]

Syntax Description		
<i>start-link-num</i>		Specifies the first value of a range of values.
<i>end-link-num</i>		Specifies the last value of a range of values.
<b>instance</b>		Indicates an ASIC instance.
<i>asic-instance</i>		Displays link information for a specific ASIC instance. Range is from 0 to 5.
<b>all</b>		Displays link information of all ASIC instances.
<b>location</b> <i>node-id</i>		Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
<b>detail</b>		Displays detailed information.

**Command Default** Brief information is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** The **detail** keyword displays the link history information. When the **detail** keyword is used, the **Down Reason** column in the example output indicates the reason why the link is down.

This example shows how to view the controller sfe tx link information:

```
sysadmin-vm:0_RP0# show controller sfe link-info tx 0 1 instance 0 location 0/FC2 detail
Mon Aug 24 04:10:17.595 UTC
Mon Aug 24 04:10:17.622 UTC
```

```
-----
Node ID: 0_RP0          Instance: 0
```

Flags:

```
  D - Power Down,   I - Init/deinit, T - Invalid Topo, B - Bad link conn
  E - Rcvr End Rst, F - No Far-end,  C - CRC error,   S - Size error
  G - Code Grp err, M - Misalign,    L - No Sig Lock, R - No Reachability Cells
```

```
-----
Link ID      Oper   Enable
```

```

                Status Status
-----
0/FC2/0/0      UP      UP
+-----+
| Timestamp                Event(s)                Down Reasons      |
+-----+
2013 Aug 24 04:06:22.000  ADMIN_UP                ERROR_NONE        .....
2013 Aug 24 04:06:22.000  ADMIN_UP                ERROR_NONE        .....
2013 Aug 24 04:06:59.000                OPER_DN                D.....
2013 Aug 24 04:06:59.000                OPER_UP                .....

0/FC2/0/1      DN      UP
+-----+
| Timestamp                Event(s)                Down Reasons      |
+-----+
2013 Aug 24 04:06:22.000  ADMIN_UP                ERROR_NONE        .....
2013 Aug 24 04:06:22.000  ADMIN_UP                ERROR_NONE        .....
2013 Aug 24 04:06:59.000                OPER_DN                D.....

```

## show controller sfe statistics

To display the sfe (switch fabric element) statistics information, use the **show controller sfe statistics** command in the System Admin EXEC mode.

**show controller sfe statistics block** *block-stats* **instance** {*asic-instance* | **all**} **location** {*node-id* | **all**}

Syntax Description		
<b>block</b> <i>block-stats</i>		Displays the statistics of the specified block. The value for <i>block-stats</i> can be one of the following: <ul style="list-style-type: none"> <li>• CCS</li> <li>• DCH</li> <li>• DCMA</li> <li>• DCMB</li> <li>• DCI</li> <li>• ECI</li> <li>• FMAC</li> <li>• RTP</li> </ul>
<b>instance</b>		Indicates an ASIC instance
<i>asic-instance</i>		Displays statistics for a specific ASIC.
<b>all</b>		Displays statistics for all asics or nodes.
<b>location</b> <i>node-id</i>		Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Displays block level statistics of SFE asics.

This example shows how to view the controller sfe statistics information:

```
sysadmin-vm:0_RP0#show controller sfe statistics block CCS instance 0 location 0/FC0
Fri Jun 3 18:46:15.397 UTC
Device statistics:
```

```
=====
Node: 0/0, Instance: 0
=====
```

```
CCS statistics:
```

```
-----
CCS statistics:
```

```
-----
CCS0 UnreachableDestinationCellsCnt: 0
CCS1 UnreachableDestinationCellsCnt: 0
CCS0 CaptureFifoDiscardCnt: 0
CCS1 CaptureFifoDiscardCnt: 0
CCS0 CdmaLpCellsDiscardCnt: 0
CCS1 CdmaLpCellsDiscardCnt: 0
CCS0 CdmaLpCellsDiscardCnt: 0
CCS1 CdmaLpCellsDiscardCnt: 0
CCS0 CdmaLpCellsDiscardCnt: 0
CCS1 CdmaLpCellsDiscardCnt: 0
CCS0 CrpParityErrCnt: 0
CCS1 CrpParityErrCnt: 0
CCS0 EcclbErrCnt: 0
CCS1 EcclbErrCnt: 0
CCS0 Ecc2bErrCnt: 0
CCS1 Ecc2bErrCnt: 0
```

# show controller sfe trace

To display the sfe trace information, use the **show controller fabric sfe trace** command in the System Admin EXEC mode.

**show controller sfe trace** {*all trace-name*} **location** *node-id* [{*all trace-attribute*}]

Syntax Description		
<i>trace-name</i>		Trace buffer name.
<b>location</b> <i>node-id</i>		Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
<i>trace-attribute</i>		Trace attribute.
<b>all</b>		Displays all the details.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command for diagnostics of SFE driver process functionality.

This example shows how to view the controller sfe trace information:

```

sysadmin-vm:0_RP0# show controller sfe trace all location 0/RP0
Fri Jun 3 18:42:52.440 UTC
-----
01.53.28.885023744:...Hardware environment
01.53.29.166642432:mc_phys_addr 0x00000000f8000000
01.53.29.223421440: @msc_entity id="0/23783" display_name="sfe"
01.53.29.233022976:@msc_event entity_id="0/23783/23783" time="1307066009233023250"
label="connecting to pm_lib with endpoint (0x0, 2020) (hdl=0x0x2e2f690)" type="Connection"
completed="false" @msc_source pairing_id="0/23783/con_0x2e2f690" type="Lane"
01.53.29.242850816:CIPC:CONN (hdl=0x2e2fae0):cipc_connect():invoked on endpoint (0.0.0.0,
2020)
01.53.29.243809792:[PL]: sfe_platform_local_client_init called...
01.53.29.250015744: @msc_entity id="0/23783" display_name="sfe"
01.53.29.250038016:@msc_event entity_id="0/23783/23783" time="1307066009250038380"
label="requesting connection to platform_local (CAPI hdl=0x2e4ae50, CIPC hdl = 0x2e4b690)"
type="Connection" completed="false"
01.53.29.250231296:DS handle 0x2e4ae50 instantiated for platform_local client handle
01.53.29.251497984: @msc_entity id="0/23783" display_name="sfe"
01.53.29.260870912:@msc_event entity_id="0/23783/23783" time="1307066009260871320"
label="requesting connection to calvados_ds (CAPI hdl=0x2e6f570, CIPC hdl = 0x2e6f9a0)"
type="Connection" completed="false"
01.53.29.261379584:@msc_event entity_id="0/23783/23783" time="1307066009261380000"
label="connecting to calvados_ds with endpoint (0x7f000001, 7400) (hdl=0x0x2e6f570)"
type="Connection" completed="false" @msc_source pairing_id="0/23783/con_0x2e6f570" type="Lane"
01.53.29.268652800:CIPC:CONN (hdl=0x2e6f9a0):cipc_connect():invoked on endpoint (127.0.0.1,
7400)

```

```
01.53.29.268868096:CIPC:INFO (hdl=0x2e6f9a0):socket_connect():async socket connection in
progress
01.53.29.268911360:[PL]: SFE driver request to setup a CAPI connection to PLFM.
01.53.29.273885696: @msc_entity id="0/23783" display_name="sfe"
01.53.29.273908480:@msc_event entity_id="0/23783/23783" time="1307066009273908810"
label="requesting connection to ccc_driver (CAPI hdl=0x2e81d80, CIPC hdl = 0x2e87ed0)"
type="Connection" completed="false"
01.53.29.273959168:DS handle 0x2e81d80 instantiated for ccc_driver client handle
01.53.29.274033152: @msc_entity id="0/23783" display_name="sfe"
01.53.29.281644288:@msc_event entity_id="0/23783/23783" time="1307066009281644580"
label="requesting connection to calvados_ds (CAPI hdl=0x2eaa780, CIPC hdl = 0x2eaabb0)"
type="Connection" completed="false"
01.53.29.281968640:@msc_event entity_id="0/23783/23783" time="1307066009281968850"
label="connecting to calvados_ds with endpoint (0x7f000001, 7400) (hdl=0x0x2eaa780)"
type="Connection" completed="false" @msc_source pairing_id="0/23783/con_0x2eaa780" type="Lane"
01.53.29.282761472:CIPC:CONN (hdl=0x2eaabb0):cipc_connect():invoked on endpoint (127.0.0.1,
7400)
01.53.29.282938112:CIPC:INFO (hdl=0x2eaabb0):socket_connect():async socket
```

# show controllers slice

To display information about the operations done on a slice by slice manager proxy, use the **show controller slice** command in System Admin EXEC or XR EXEC mode.

System Admin EXEC Mode

**show controllers slice** [**all**<*slice\_number*>] **reset-history** [**summary** | **detail**][**location** [*node-id*]]

XR EXEC Mode

**show controllers**

Syntax Description		
<b>all</b> < <i>slice_number</i> >		Enter the specific slice number or all the slices for which the information is to be displayed. The slice number value ranges from 0 to 4.
<b>reset-history</b> [ <b>summary</b>   <b>detail</b> ]		Provides information about the reset history of the slice. The summary and detail options provides a brief output.
<b>location</b> [ <i>node-id</i> ]		Identifies the node you want to shut down. The node-id argument is expressed in the rack or slot notation.

**Command Default** Status and information are displayed for all nodes in the system.

**Command Modes** System Admin EXEC

XR EXEC

Command History	Release	Modification
	Release 5.2.3	This command was introduced.

```
RP/0/RP0/CPU0:router# show controller slice 0 reset-history summary location 0/2
Fri Oct 17 05:40:27.318 UTC
```

```
=====
                        Slice Manager Slice Context: 0
=====
| Timestamp                | Prev State    | Event          | Next State    |
=====
|2014 Oct 17 05:19:08.127| UNKNOWN      | CFG SLICE     | PWR DOWN WAIT |
|2014 Oct 17 05:19:09.679| PWR DOWN WAIT| PWR DWN SUCESS| PWR UP        |
|2014 Oct 17 05:19:29.56 | PWR UP       | PWR UP SUCESS | PWR UP DONE   |
|2014 Oct 17 05:23:39.327| PWR UP DONE  | CFG SLICE     | PWR DOWN WAIT |
|2014 Oct 17 05:23:52.921| PWR DOWN WAIT| PWR DWN SUCESS| PWR UP        |
|2014 Oct 17 05:24:13.637| PWR UP       | PWR UP SUCESS | PWR UP DONE   |
```

# show controller slice\_control FPGA

To display information about a specific slice controller FPGA and the slices controlled by the FPGA on the node, use the **show controller slice\_control FPGA** command in the System Admin EXEC mode.

**show controller slice\_control FPGA** {all *fpga-number*} {{clocking-devices {all *device-number*} | context-info | slice {all *slice-number*} *slice-attributes*} location {all *node-id*} | location {all *node-id*}}

Syntax Description		
	<i>fpga-number</i>	FPGA number. Range is from 0 to 1.
	<b>clocking-devices</b>	Displays the clocking device information.
	<i>device-number</i>	Device number.
	<b>context-info</b>	Displays the slice controller context information.
	<b>slice</b>	Displays slice information.
	<i>slice-number</i>	Slice number. Range is from 0 to 2.
	<i>slice-attributes</i>	Slice attribute.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	<b>all</b>	Displays all the information.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command to display all the software and hardware information for the slice FPGA, and the devices that are connected to the slice FPGA, such as clocking chips, PHYs, optics, and sensors. If an FPGA number is stated in the command, then the information related to that specific FPGA is displayed. If **all** keyword is used, then information for all the FPGAs is displayed.

This example shows how to view the slice control information:

```
sysadmin-vm:0_RP0#show controller slice_control FPGA 0 location 0/0

Tue Apr 14 16:20:30.867 UTC
Tue Apr 14 16:20:30.908 UTC
Tue Apr 14 16:20:30 UTC 1970
Tue Apr 14 16:20:30.943 UTC
FPGA id: 0
-----
```



## Slice controller context information:

```

-----
Controller id      :0
Num Slices        :2
Oper State        :1
Hotplug Status    :1
Hotplug Desc      :0xa95ae0
PCI Handle        :0xc40590
PCI Irq_Desc      :0xa8e4a0
PCI MSI           :104
PCI Base_Address  :0x0
PCI Bus           :103
PCI Device        :0
PCI Virt_Address  :0x7f5fa7cad000
Num PLL           :4
c_hd              :0x6d98d0
d_hd              :0x6d98d0
i_hd              :0x6d98d0
fm_hdl            :(nil)
trace             :0x95e320
levm              :0x95c1e0

```

## Clocking device information :

```
PLL device : 0
```

```

=====
pll_id  bus                mode      dev_addr  i2c_regs
=====
0       I2C_COMMON             LAN       0x68     0x7f5fa7cad040
1       I2C_COMMON             LAN       0x69     0x7f5fa7cad040
2       I2C_COMMON             LAN       0x6a     0x7f5fa7cad040
3       I2C_COMMON             LAN       0x6b     0x7f5fa7cad040
=====

```

```
Slice id: 0
```

## Slice summary info:

```

=====
slice  num    num    num    num temp  num volt  num curr
id    phy  optics eeeprom sensors sensors sensors
=====
0      4      2      1      3        16      8

```

## Current sensor information:

```

-----
curr_sensor id    :0
sensor id         :LTC4151_VP1P0_SRDS
dev addr          :17224
poll intvl        :10
delta             :5
raw data          :425
sensor value      :340
unit              :3
last value        :336
send update       :false
num lsec_intervals :2

```

```

curr_sensor id    :1
sensor id         :LTC4151_VP1P5
dev addr          :17248
poll intvl        :10
delta             :5
raw data          :978
sensor value      :2608
unit              :3

```

## show controller slice\_control FPGA

```

last value           :2610
send update          :false
num 1sec_intervals  :2

curr_sensor id       :2
sensor id            :UNKNOWN
dev addr             :17200
poll intvl          :10
delta                :5
raw data             :947
sensor value         :757
unit                 :3
last value           :756
send update          :false
num 1sec_intervals  :3

curr_sensor id       :3
sensor id            :LTC4151_VP0P9_AVS
dev addr             :17164
poll intvl          :10
delta                :5
raw data             :1570
sensor value         :2512
unit                 :3
last value           :2508
send update          :false
num 1sec_intervals  :3

curr_sensor id       :4
sensor id            :LTC4151_VP0P9_PITA
dev addr             :17188
poll intvl          :10
delta                :5
raw data             :69
sensor value         :55
unit                 :3
last value           :52
send update          :false
num 1sec_intervals  :3

curr_sensor id       :5
sensor id            :LTC4151_VP1P0_AMBA
dev addr             :17212
poll intvl          :10
delta                :5
raw data             :796
sensor value         :1273
unit                 :3
last value           :1272
send update          :false
num 1sec_intervals  :3

curr_sensor id       :6
sensor id            :LTC4151_VP1P0_AMBA_B
dev addr             :17236
poll intvl          :10
delta                :5
raw data             :667
sensor value         :533
unit                 :3
last value           :532
send update          :false
num 1sec_intervals  :3

```

```

curr_sensor id      :7
sensor id           :LTC4151_VPOP9_AVS_B
dev addr            :17176
poll intvl          :10
delta               :5
raw data            :1580
sensor value        :2528
unit                :3
last value          :2528
send update         :false
num 1sec_intervals :3
    
```

```

=====
eeprom_id type      bus          i2c_regs
=====
0          SLICE_EEPROM_GENNUM    SLICE_I2C_SHARED    0x7f5fa7cb1000
    
```

```

=====
optics_id type      bus          i2c_regs
=====
0          CXP              SLICE_I2C_OPTICS_0  0x7f5fa7cb0000
1          CXP              SLICE_I2C_OPTICS_1  0x7f5fa7cb0200
    
```

Optics id : 0

```

-----
CXP information :
port_id          :0
signature        :0x43585020444c4c00
cxp_port_ready   :true
opaque           :0x6da260
nodeid           :0xa23a40
slice            :1
capabilities     :0x28aabaa34f9ff
vendor_name      :CISCO-AVAGO
vendor_part_num  :
vendor_rev_num   :01
vendor_serial_num :AGF155220WD
passive          :false
    
```

```

STATUS FLAGS
D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled
    
```

```

ERROR FLAGS
L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm       p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm         v - Low Vcc Alarm
    
```

```

=====
Channel      Status_Flag      Error_Flag
=====
0            D-----      L---
1            D-----      ----
2            D-----      ----
3            D-----      ----
4            D-----      ----
    
```

## show controller slice\_control FPGA

```

5          D-----          ----
6          D-----          ----
7          D-----          ----
8          D-----          ----
9          D-----          ----
10         D-----          ----
11         D-----          L---

```

## STATUS FLAGS

```

D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled

```

## ERROR FLAGS

```

L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm      p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm        v - Low Vcc Alarm

```

```

=====
Channel          Status          Error
=====
0                D-----          L--p
1                -----          L--p
2                -----          ----
3                -----          L--p
4                -----          ---p
5                -----          L--p
6                -----          L--p
7                -----          ---p
8                -----          L---
9                -----          ---p
10               -----          L---
11               D-----          ---p

```

```

=====
Tx Channel      Equalization
=====
0                0x00
1                0x00
2                0x00
3                0x00
4                0x00
5                0x00
6                0x00
7                0x00
8                0x00
9                0x00
10               0x00
11               0x00

```

```

=====
Rx Channel      Amplitude      De_Emphasis
=====
0                0x03          0x00
1                0x03          0x00
2                0x03          0x00
3                0x03          0x00

```

```

4           0x03           0x00
5           0x03           0x00
6           0x03           0x00
7           0x03           0x00
8           0x03           0x00
9           0x03           0x00
10          0x03           0x00
11          0x03           0x00
    
```

Optics id : 1

```

-----
CXP information :
port_id      :1
signature    :0x43585020444c4c00
cxp_port_ready :true
opaque       :0x6da490
nodeid       :0xa23a40
slice        :1
capabilities :0x28aabaa34f9ff
vendor_name  :CISCO-AVAGO
vendor_part_num :10-2790-01
vendor_rev_num :01
vendor_serial_num :AGF162920JA
passive      :false
    
```

```

STATUS FLAGS
D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled
    
```

```

ERROR FLAGS
L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm      p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm        v - Low Vcc Alarm
    
```

```

=====
Channel      Status_Flag      Error_Flag
=====
0            D-----          L---
1            D-----          ----
2            D-----          ----
3            D-----          ----
4            D-----          ----
5            D-----          ----
6            D-----          ----
7            D-----          ----
8            D-----          ----
9            D-----          ----
10           D-----          ----
11           D-----          L---
    
```

```

STATUS FLAGS
D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
    
```

## show controller slice\_control FPGA

P - Power Alarm Disabled  
 T - Temperature Alarm Disabled  
 V - Vcc Alarm Disabled

## ERROR FLAGS

L - LOS Alarm  
 F - Fault  
 B - High Bias Current                    b - low Bias Current  
 P - High Power Alarm                    p - Low Power Alarm  
 T - High Temperature Alarm            t - Low Temperature Alarm  
 V - High Vcc Alarm                      v - Low Vcc Alarm

```
=====
Channel          Status          Error
=====
0                D-----        L--p
1                -----        L--p
2                -----        L---
3                -----        ---p
4                -----        L---
5                -----        L--p
6                -----        L--p
7                -----        L---
8                -----        L--p
9                -----        ---p
10               -----        L---
11               D-----        ---p
=====
```

```
=====
Tx Channel       Equalization
=====
0                0x00
1                0x00
2                0x00
3                0x00
4                0x00
5                0x00
6                0x00
7                0x00
8                0x00
9                0x00
10               0x00
11               0x00
=====
```

```
=====
Rx Channel       Amplitude       De_Emphasis
=====
0                0x03           0x00
1                0x03           0x00
2                0x03           0x00
3                0x03           0x00
4                0x03           0x00
5                0x03           0x00
6                0x03           0x00
7                0x03           0x00
8                0x03           0x00
9                0x03           0x00
10               0x03           0x00
11               0x03           0x00
=====
```

```
=====
phy_id   type          bus          i2c_regs
=====
0        GENNUM     SLICE_I2C_SHARED  0x7f5fa7cb1000
1        GENNUM     SLICE_I2C_SHARED  0x7f5fa7cb1000
=====
```

```

2          GENNUM          SLICE_I2C_SHARED    0x7f5fa7cb1000
3          GENNUM          SLICE_I2C_SHARED    0x7f5fa7cb1000

```

Temperature sensor information:

```

-----
temp_sensor id      :0
sensor id           :TMP421_PITA_DIE_REMOTE
dev addr            :17668
poll intvl          :10
delta               :1
raw data            :1174
sensor value        :73
unit                :6
last value          :73
send update         :false
num lsec_intervals :1

temp_sensor id      :1
sensor id           :TMP421_AMBA_DIE_LOCAL
dev addr            :17672
poll intvl          :10
delta               :1
raw data            :875
sensor value        :54
unit                :6
last value          :54
send update         :false
num lsec_intervals :1

temp_sensor id      :2
sensor id           :TMP421_AMBA_DIE_REMOTE
dev addr            :17676
poll intvl          :10
delta               :1
raw data            :827
sensor value        :51
unit                :6
last value          :51
send update         :false
num lsec_intervals :1

```

Voltage sensor information:

```

-----
volt_sensor id      :0
sensor id           :LTC2978_VP0P9_AVS
dev addr            :8960
poll intvl          :10
delta               :16
raw data            :7781
sensor value        :949
unit                :2
last value          :949
send update         :false
num lsec_intervals :1

volt_sensor id      :1
sensor id           :LTC2978_VP1P5
dev addr            :8968
poll intvl          :10
delta               :27
raw data            :12286
sensor value        :1499
unit                :2
last value          :1500

```

## show controller slice\_control FPGA

```

send update           :false
num lsec_intervals   :2

volt_sensor id       :2
sensor id             :LTC2978_VP1P8
dev addr              :8976
poll intvl           :10
--More--0/RP0:Apr 14 16:21:25.384 : pm[1741]: %INFRA-Process_Manager-3-PROCESS_RESTART :
Process ael_mgbl restarted
delta                 :16
raw data              :14747
sensor value          :1800
unit                  :2
last value            :1800
send update           :false
num lsec_intervals   :2

volt_sensor id       :3
sensor id             :LTC2978_VP0P9
dev addr              :8984
poll intvl           :10
delta                 :16
raw data              :7127
sensor value          :869
unit                  :2
last value            :869
send update           :false
num lsec_intervals   :7

volt_sensor id       :4
sensor id             :LTC2978_VP1P0_PITA
dev addr              :8992
poll intvl           :10
delta                 :18
raw data              :8191
sensor value          :999
unit                  :2
last value            :1000
send update           :false
num lsec_intervals   :7

volt_sensor id       :5
sensor id             :LTC2978_VP0P9_PITA
dev addr              :9000
poll intvl           :10
delta                 :16
raw data              :7374
sensor value          :900
unit                  :2
last value            :900
send update           :false
num lsec_intervals   :7

volt_sensor id       :6
sensor id             :LTC2978_VP1P0_SRDS
dev addr              :9008
poll intvl           :10
delta                 :18
raw data              :8193
sensor value          :1000
unit                  :2
last value            :999
send update           :false
num lsec_intervals   :7

```



```
volt_sensor id      :7
sensor id           :LTC2978_VP1P0_AMBA
dev addr            :9016
poll intvl          :10
delta                :18
raw data            :8191
sensor value        :999
unit                :2
last value          :999
send update         :false
num 1sec_intervals :7

volt_sensor id      :8
sensor id           :LTC4151_VP1P0_SRDS
dev addr            :17228
poll intvl          :10
delta                :185
raw data            :430
sensor value        :10750
unit                :2
last value          :10875
send update         :false
num 1sec_intervals :7

volt_sensor id      :9
sensor id           :LTC4151_VP1P5
dev addr            :17252
poll intvl          :10
delta                :185
raw data            :430
sensor value        :10750
unit                :2
last value          :10850
send update         :false
num 1sec_intervals :7

    volt_sensor id  :10
sensor id           :UNKNOWN
dev addr            :17204
poll intvl          :10
delta                :185
raw data            :436
sensor value        :10900
unit                :2
last value          :11000
send update         :false
num 1sec_intervals :8

volt_sensor id      :11
sensor id           :LTC4151_VP0P9_AVS
dev addr            :17168
poll intvl          :10
delta                :185
raw data            :430
sensor value        :10750
unit                :2
last value          :10875
send update         :false
num 1sec_intervals :8

volt_sensor id      :12
sensor id           :LTC4151_VP0P9_PITA
dev addr            :17192
```

## show controller slice\_control FPGA

```
poll intvl      :10
delta           :185
raw data        :435
sensor value    :10875
unit            :2
last value      :10975
send update     :false
num lsec_intervals :8

volt_sensor id  :13
sensor id       :LTC4151_VP1P0_AMBA
dev addr        :17216
poll intvl      :10
delta           :185
raw data        :431
sensor value    :10775
unit            :2
last value      :10900
send update     :false
num lsec_intervals :8

volt_sensor id  :14
sensor id       :LTC4151_VP1P0_AMBA_B
dev addr        :17240
poll intvl      :10
delta           :185
raw data        :431
sensor value    :10775
unit            :2
last value      :10900
send update     :false
num lsec_intervals :8

volt_sensor id  :15
sensor id       :LTC4151_VP0P9_AVS_B
dev addr        :17180
poll intvl      :10
delta           :185
raw data        :431
sensor value    :10775
unit            :2
last value      :10900
send update     :false
num lsec_intervals :8
```

# show controller slice\_control context-info

To display the slice control context information, use the **show controller slice\_control context-info** command in the System Admin EXEC mode.

**show controller slice\_control context-info location** {all *node-id*}

Syntax Description	location <i>node-id</i>	Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	all	Displays information from all the nodes.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** This command displays the software context and information for the slice FPGA.

This example shows how to view the slice control information:

```
sysadmin-vm:0_RP0#show controller slice_control context-info location 0/3

Mon Aug 12 17:54:20.121 UTC
Mon Aug 12 17:54:20.148 UTC
Mon Aug 12 17:54:20 UTC 2013
Mon Aug 12 17:54:20.175 UTC
Slice manager context information:
-----
num controllers      :1
levm                 :0x265d1e0
ccc_hdl              :0x2752910
trace                :0x265f320
xml_hdl              :0x2838de0
fm_hdl               :0x2837b80
sim                  :false
debug                :false
card_type            :5507172
slot_num             :19
```

# show controller slice\_control location

To display all the information related to the slice control FPGAs, slice hardware, optics, clocking devices, PHYs, and sensors on a card, use the **show controller slice\_control location** command in the System Admin EXEC mode.

**show controller slice\_control location** {all *node-id*}

Syntax Description		
	<i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	<b>all</b>	Displays information from all the nodes.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command to display all the software and hardware information for the slice FPGA, and the devices that are connected to the slice FPGA, such as clocking chips, PHYs, optics, and sensors.

This example shows how to view the slice control information:

```

sysadmin-vm:0_RP0#show controller slice_control location 0/0
Fri Aug 30 20:08:24.778 UTC
Fri Aug 30 20:08:24.810 UTC
Fri Aug 30 16:08:24 EDT 2013
Fri Aug 30 20:08:24.838 UTC
Slice controller node : 0/0
=====

Slice manager context information:
-----
num controllers      :1
levm                 :0x21be1e0
ccc_hdl              :0x22b3890
trace                :0x21c0320
xml_hdl              :0x2394f70
fm_hdl               :0x2393d10
sim                  :false
debug                :false
card_type            :5507173
slot_num             :16

FPGA id: 0
-----
Slice controller context information:
-----
Controller id       :0
Num Slices          :2

```

```

Oper State          :1
Hotplug Status     :1
Hotplug Desc       :0x22f7a60
PCI Handle          :0x22f1110
PCI Irq_Desc       :0x22f0420
PCI MSI             :103
PCI Base_Address   :0x0
PCI Bus            :103
PCI Device         :0
PCI Virt_Address   :0x7f1175ebf000
Num PLL            :4
c_hd               :0x6d8bb0
d_hd               :0x6d8bb0
i_hd               :0x6d8bb0
fm_hdl             :(nil)
trace              :0x21c0320
levm               :0x21be1e0

```

Clocking device information :

PLL device : 0

```

=====
pll_id  bus                mode      dev_addr  i2c_regs
=====
0       I2C_COMMON              LAN       0x68      0x7f1175ebf040
1       I2C_COMMON              LAN       0x69      0x7f1175ebf040
2       I2C_COMMON              LAN       0x6a      0x7f1175ebf040
3       I2C_COMMON              LAN       0x6b      0x7f1175ebf040
=====

```

Slice id: 0

-----  
Slice summary info:

```

=====
slice  num    num    num    num temp  num volt  num curr
  id   phy  optics eeeprom sensors sensors sensors
=====
0      4     2     1     3         16      8

```

Current sensor information:

```

-----
curr_sensor id      :0
sensor id           :LTC4151_VP1P0_SRDS
dev addr            :17224
poll intvl         :10
delta               :5
raw data            :1350
sensor value        :1080
unit                :3
last value          :1080
send update         :false
num lsec_intervals :2

```

```

curr_sensor id      :1
sensor id           :LTC4151_VP1P5
dev addr            :17248
poll intvl         :10
delta               :5
raw data            :949
sensor value        :2530
unit                :3
last value          :2530
send update         :false
num lsec_intervals :2

```

## show controller slice\_control location

```

curr_sensor id      :2
sensor id           :UNKNOWN
dev addr            :17200
poll intvl          :10
delta               :5
raw data            :919
sensor value        :735
unit                :3
last value          :734
send update         :false
num lsec_intervals :2

curr_sensor id      :3
sensor id           :LTC4151_VP0P9_AVS
dev addr            :17164
poll intvl          :10
delta               :5
raw data            :1356
sensor value        :2169
unit                :3
last value          :2172
send update         :false
num lsec_intervals :2

curr_sensor id      :4
sensor id           :LTC4151_VP0P9_PITA
dev addr            :17188
poll intvl          :10
delta               :5
raw data            :55
sensor value        :44
unit                :3
last value          :41
send update         :false
num lsec_intervals :2

curr_sensor id      :5
sensor id           :LTC4151_VP1P0_AMBA
dev addr            :17212
poll intvl          :10
delta               :5
raw data            :819
sensor value        :1310
unit                :3
last value          :1307
send update         :false
num lsec_intervals :2

curr_sensor id      :6
sensor id           :LTC4151_VP1P0_AMBA_B
dev addr            :17236
poll intvl          :10
delta               :5
raw data            :826
sensor value        :660
unit                :3
last value          :661
send update         :false
num lsec_intervals :2

curr_sensor id      :7
sensor id           :LTC4151_VP0P9_AVS_B
dev addr            :17176
poll intvl          :10

```

```

delta                :5
raw data             :1307
sensor value        :2091
unit                :3
last value          :2089
send update         :false
num 1sec_intervals  :3
    
```

```

=====
eeprom_id type      bus          i2c_regs
=====
0          SLICE_EEPROM_GENNUM  SLICE_I2C_SHARED  0x7f1175ec3000
    
```

```

=====
optics_id type     bus          i2c_regs
=====
0          CXP      SLICE_I2C_OPTICS_0  0x7f1175ec2000
1          CXP      SLICE_I2C_OPTICS_1  0x7f1175ec2200
    
```

Optics id : 0

```

-----
CXP information :
port_id         :0
signature       :0x43585020444c4c00
cxp_port_ready  :true
opaque         :0x6d9540
nodeid         :0x2286740
slice          :1
capabilities    :0x28aabaa34f9ff
vendor_name     :CISCO-AVAGO
vendor_part_num :10-2790-01
vendor_rev_num  :01
vendor_serial_num :AGF1632203T
passive        :false
    
```

```

STATUS FLAGS
D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled
    
```

```

ERROR FLAGS
L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm       p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm         v - Low Vcc Alarm
    
```

```

=====
Channel      Status_Flag      Error_Flag
=====
0            D-----      L---
1            -----      ----
2            -----      ----
3            -----      ----
4            -----      ----
5            -----      ----
6            -----      ----
7            -----      ----
8            -----      ----
    
```

## show controller slice\_control location

```

9          -----
10         -----
11         D-----

```

## STATUS FLAGS

```

D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled

```

## ERROR FLAGS

```

L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm      p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm        v - Low Vcc Alarm

```

```

=====
Channel          Status          Error
=====
0                D-----          L--p
1                -----          ----
2                -----          ----
3                -----          ----
4                -----          ----
5                -----          ----
6                -----          ----
7                -----          ----
8                -----          ----
9                -----          ----
10               -----          ----
11               D-----          ---p

```

```

=====
Tx Channel      Equalization
=====
0                0x00
1                0x00
2                0x00
3                0x00
4                0x00
5                0x00
6                0x00
7                0x00
8                0x00
9                0x00
10               0x00
11               0x00

```

```

=====
Rx Channel      Amplitude      De_Empphasis
=====
0                0x03          0x00
1                0x03          0x00
2                0x03          0x00
3                0x03          0x00
4                0x03          0x00
5                0x03          0x00
6                0x03          0x00
7                0x03          0x00

```



```

8           0x03           0x00
9           0x03           0x00
10          0x03           0x00
11          0x03           0x00
    
```

```

Optics id : 1
-----
    
```

```

CXP information :
port_id       :1
No valid data.
    
```

```

STATUS FLAGS
D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled
    
```

```

ERROR FLAGS
L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm       p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm         v - Low Vcc Alarm
    
```

```

=====
Channel      Status_Flag      Error_Flag
=====
0            No valid data.
1            No valid data.
2            No valid data.
3            No valid data.
4            No valid data.
5            No valid data.
6            No valid data.
7            No valid data.
8            No valid data.
9            No valid data.
10           No valid data.
11           No valid data.
    
```

```

STATUS FLAGS
D - Channel Disabled
O - Channel Output Disabled
L - LOS Disabled
F - Fault Disabled
B - Bias Current Alarm Disabled
P - Power Alarm Disabled
T - Temperature Alarm Disabled
V - Vcc Alarm Disabled
    
```

```

ERROR FLAGS
L - LOS Alarm
F - Fault
B - High Bias Current      b - low Bias Current
P - High Power Alarm       p - Low Power Alarm
T - High Temperature Alarm t - Low Temperature Alarm
V - High Vcc Alarm         v - Low Vcc Alarm
    
```

```

=====
Channel      Status      Error
=====
    
```

## show controller slice\_control location

```

0          No valid data.
1          No valid data.
2          No valid data.
3          No valid data.
4          No valid data.
5          No valid data.
6          No valid data.
7          No valid data.
8          No valid data.
9          No valid data.
10         No valid data.
11         No valid data.

```

```

=====
Tx Channel      Equalization
=====
0          No valid data.
1          No valid data.
2          No valid data.
3          No valid data.
4          No valid data.
5          No valid data.
6          No valid data.
7          No valid data.
8          No valid data.
9          No valid data.
10         No valid data.
11         No valid data.

```

```

=====
Rx Channel      Amplitude      De_Emphasis
=====
0          No valid data.
1          No valid data.
2          No valid data.
3          No valid data.
4          No valid data.
5          No valid data.
6          No valid data.
7          No valid data.
8          No valid data.
9          No valid data.
10         No valid data.
11         No valid data.

```

```

=====
phy_id  type          bus          i2c_regs
=====
0       GENNUM      SLICE_I2C_SHARED  0x7f1175ec3000
1       GENNUM      SLICE_I2C_SHARED  0x7f1175ec3000
2       GENNUM      SLICE_I2C_SHARED  0x7f1175ec3000
3       GENNUM      SLICE_I2C_SHARED  0x7f1175ec3000

```

Temperature sensor information:

```

-----
temp_sensor id      :0
sensor id           :TMP421_PITA_DIE_REMOTE
dev addr            :17668
poll intvl          :10
delta                :1
raw data             :761
sensor value        :47
unit                 :6
last value           :47

```

```

send update           :false
num lsec_intervals   :5

temp_sensor id       :1
sensor id             :TMP421_AMBA_DIE_LOCAL
dev addr              :17672
poll intvl           :10
delta                 :1
raw data              :601
sensor value          :37
unit                  :6
last value            :37
send update           :false
num lsec_intervals   :5

temp_sensor id       :2
sensor id             :TMP421_AMBA_DIE_REMOTE
dev addr              :17676
poll intvl           :10
delta                 :1
raw data              :671
sensor value          :41
unit                  :6
last value            :41
send update           :false
num lsec_intervals   :5

Voltage sensor information:
-----
volt_sensor id       :0
sensor id             :LTC2978_VP0P9_AVS
dev addr              :8960
poll intvl           :10
delta                 :16
raw data              :7783
sensor value          :950
unit                  :2
last value            :950
send update           :false
num lsec_intervals   :5

volt_sensor id       :1
sensor id             :LTC2978_VP1P5
dev addr              :8968
poll intvl           :10
delta                 :27
raw data              :12288
sensor value          :1500
unit                  :2
last value            :1500
send update           :false
num lsec_intervals   :5

volt_sensor id       :2
sensor id             :LTC2978_VP1P8
dev addr              :8976
poll intvl           :10
delta                 :16
raw data              :14743
sensor value          :1799
unit                  :2
last value            :1800
send update           :false
num lsec_intervals   :5

```

## show controller slice\_control location

```

volt_sensor id      :3
sensor id          :LTC2978_VP0P9
dev addr           :8984
poll intvl         :10
delta              :16
raw data           :7126
sensor value       :869
unit               :2
last value         :870
send update        :false
num lsec_intervals :5

volt_sensor id      :4
sensor id          :LTC2978_VP1P0_PITA
dev addr           :8992
poll intvl         :10
delta              :18
raw data           :8192
sensor value       :1000
unit               :2
last value         :999
send update        :false
num lsec_intervals :5

volt_sensor id      :5
sensor id          :LTC2978_VP0P9_PITA
dev addr           :9000
poll intvl         :10
delta              :16
raw data           :7372
sensor value       :899
unit               :2
last value         :899
send update        :false
num lsec_intervals :5

volt_sensor id      :6
sensor id          :LTC2978_VP1P0_SRDS
dev addr           :9008
poll intvl         :10
delta              :18
raw data           :8192
sensor value       :1000
unit               :2
last value         :999
send update        :false
num lsec_intervals :5

    volt_sensor id      :7
    sensor id          :LTC2978_VP1P0_AMBA
    dev addr           :9016
    poll intvl         :10
    delta              :18
    raw data           :8193
    sensor value       :1000
    unit               :2
    last value         :1000
    send update        :false
    num lsec_intervals :6

volt_sensor id      :8
sensor id          :LTC4151_VP1P0_SRDS
dev addr           :17228

```

```

poll intvl      :10
delta           :185
raw data        :435
sensor value    :10875
unit            :2
last value      :10850
send update     :false
num lsec_intervals :6

volt_sensor id  :9
sensor id       :LTC4151_VP1P5
dev addr        :17252
poll intvl      :10
delta           :185
raw data        :434
sensor value    :10850
unit            :2
last value      :10825
send update     :false
num lsec_intervals :6

volt_sensor id  :10
sensor id       :UNKNOWN
dev addr        :17204
poll intvl      :10
delta           :185
raw data        :445
sensor value    :11125
unit            :2
last value      :11175
send update     :false
num lsec_intervals :6

volt_sensor id  :11
sensor id       :LTC4151_VPOP9_AVS
dev addr        :17168
poll intvl      :10
delta           :185
raw data        :433
sensor value    :10825
unit            :2
last value      :10800
send update     :false
num lsec_intervals :6

volt_sensor id  :12
sensor id       :LTC4151_VPOP9_PITA
dev addr        :17192
poll intvl      :10
delta           :185
raw data        :445
sensor value    :11125
unit            :2
last value      :11200
send update     :false
num lsec_intervals :6

volt_sensor id  :13
sensor id       :LTC4151_VP1P0_AMBA
dev addr        :17216
poll intvl      :10
delta           :185
raw data        :433
sensor value    :10825

```

## show controller slice\_control location

```
unit :2
last value :11000
send update :false
num lsec_intervals :6

volt_sensor id :14
sensor id :LTC4151_VP1P0_AMBA_B
dev addr :17240
poll intvl :10
delta :185
raw data :434
sensor value :10850
unit :2
last value :10825
send update :false
num lsec_intervals :6

volt_sensor id :15
sensor id :LTC4151_VP0P9_AVS_B
dev addr :17180
poll intvl :10
delta :185
raw data :435
sensor value :10875
unit :2
last value :11025
send update :false
num lsec_intervals :7
```

# show controller switch fdb

To display various FDB (forwarding database) details based on MAC address filters, source port filters, and VLAN, use the **show controller switch fdb** command in the System Admin EXEC mode. This command can also be used to view the location and statistics of the FDB.

```
show controller switch fdb [{location [node-id]} | [{mac mac-address | port port-number | statistics | vlan vlan-id}] [location [node-id]]}]
```

Syntax Description	location <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
	mac <i>mac-address</i>	Displays the switch FDB information based on the MAC address.
	port <i>port-number</i>	Displays the switch FDB information based on the source port filter.
	statistics	Displays the FDB statistics.
	vlan <i>vlan-id</i>	Displays the switch FDB information based on the VLAN filter.

**Command Default** Displays statistics summary for each node.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Detailed information for a specific node is displayed if the **location** *node-id* keyword is specified.

This example shows how to display switch FDB information without any keyword:

```
sysadmin-vm:0_RP0# show controller switch fdb

Fri Aug 30 20:29:52.855 UTC
FDB Maintenance Counters For Switch 0/RP0/RP-SW
  Current shadow table entries: 127
  Maximum shadow table entries: 198
  Maximum hash chain depth:    1
  Number of entries added:     2318
  Number of entries deleted:   2191
  Number of entries updated:   0
  Number of FDB flushes:      1
  Address update messages:     2191
  New addresses:               2314
  Aged addresses:              2191
  Transplanted updates:        0
  Forwarding updates:          0
  Address insert errors:       0
  Address update errors:       0
  FDB memory errors:           0
  FDB allocation errors:       0
  Address updates queued:      0
```

```

Address queue full:      No
Forwarding updates queued: 0
Forwarding queue full:  No

```

## FDB Table Synchronization Information

FDB Instance	Total Entries	Static Entries
0	127	4
1	127	4
2	127	4
3	127	4
Shadow	127	4

## FDB Maintenance Counters For Switch 0/RP1/RP-SW

```

Current shadow table entries: 134
Maximum shadow table entries: 201
Maximum hash chain depth:    1
Number of entries added:     2325
Number of entries deleted:   2191
Number of entries updated:   0
Number of FDB flushes:      1
Address update messages:    2191
New addresses:               2321
Aged addresses:              2191
Transplanted updates:        0
Forwarding updates:          0
Address insert errors:       0
Address update errors:       0
FDB memory errors:          0
FDB allocation errors:       0
Address updates queued:      0
Address queue full:          No
Forwarding updates queued:   0
Forwarding queue full:       No

```

## FDB Table Synchronization Information

FDB Instance	Total Entries	Static Entries
0	134	4
1	134	4
2	134	4
3	134	4
Shadow	134	4

## FDB Maintenance Counters For Switch 0/LC0/LC-SW

```

Current shadow table entries: 123
Maximum shadow table entries: 180
Maximum hash chain depth:    1
Number of entries added:     1167
Number of entries deleted:   1044
Number of entries updated:   0
Number of FDB flushes:      1
Address update messages:    1044
New addresses:               1165
Aged addresses:              1044
Transplanted updates:        0
Forwarding updates:          0
Address insert errors:       0
Address update errors:       0
FDB memory errors:          0
FDB allocation errors:       0
Address updates queued:      0

```



```

Address queue full:      No
Forwarding updates queued: 0
Forwarding queue full:  No

```

## FDB Table Synchronization Information

FDB Instance	Total Entries	Static Entries
0	123	2
1	123	2
Shadow	123	2

## FDB Maintenance Counters For Switch 0/LC1/LC-SW

```

Current shadow table entries: 122
Maximum shadow table entries: 179
Maximum hash chain depth:    1
Number of entries added:     1169
Number of entries deleted:   1047
Number of entries updated:   0
Number of FDB flushes:      1
Address update messages:     1047
New addresses:               1167
Aged addresses:              1047
Transplanted updates:        0
Forwarding updates:          0
Address insert errors:       0
Address update errors:       0
FDB memory errors:          0
FDB allocation errors:       0
Address updates queued:      0
Address queue full:          No
Forwarding updates queued:   0
Forwarding queue full:       No

```

## FDB Table Synchronization Information

FDB Instance	Total Entries	Static Entries
0	122	2
1	122	2
Shadow	122	2

## FDB Maintenance Counters For Switch 0/LC7/LC-SW

```

Current shadow table entries: 123
Maximum shadow table entries: 179
Maximum hash chain depth:    1
Number of entries added:     1180
Number of entries deleted:   1057
Number of entries updated:   0
Number of FDB flushes:      1
Address update messages:     1057
New addresses:               1178
Aged addresses:              1057
Transplanted updates:        0
Forwarding updates:          0
Address insert errors:       0
Address update errors:       0
FDB memory errors:          0
FDB allocation errors:       0
Address updates queued:      0
Address queue full:          No
Forwarding updates queued:   0
Forwarding queue full:       No

```

## show controller switch fdb

## FDB Table Synchronization Information

FDB Instance	Total Entries	Static Entries
0	123	2
1	123	2
Shadow	123	2

Rack	Card	Switch
0	RP0	RP-SW

FDB Index	MAC Address	VLAN	Src Port	Trap	Static	Synced Cores
200	e0:50:bf:1c:f1:05	2049 (0x801)	16	No	No	0 1 2 3
396	00:b0:64:fd:51:68	513 (0x201)	36	No	No	0 1 2 3
504	e0:52:2d:4c:bd:03	2049 (0x801)	0	No	No	0 1 2 3
804	00:04:4d:d8:6a:c0	514 (0x202)	54	No	No	0 1 2 3
960	00:50:54:80:a5:fb	513 (0x201)	36	No	No	0 1 2 3
1724	e0:50:a0:bf:8c:00	2049 (0x801)	21	No	No	0 1 2 3
1896	00:00:0c:07:ac:02	513 (0x201)	36	No	No	0 1 2 3
1932	00:b0:64:fd:18:1c	513 (0x201)	36	No	No	0 1 2 3
2092	00:10:7b:e8:09:f8	513 (0x201)	36	No	No	0 1 2 3
2368	4c:4e:35:b6:48:ff	2049 (0x801)	40	No	No	0 1 2 3
2512	4c:4e:35:b6:49:0e	513 (0x201)	40	No	No	0 1 2 3
2513	4e:41:50:00:01:01	2050 (0x802)	18	No	No	0 1 2 3
2756	00:04:4d:da:5b:40	513 (0x201)	36	No	No	0 1 2 3
2984	00:13:80:31:74:80	513 (0x201)	36	No	No	0 1 2 3
3636	00:12:44:d9:f0:c0	513 (0x201)	36	No	No	0 1 2 3
3732	00:04:4d:da:3c:c0	513 (0x201)	36	No	No	0 1 2 3
4244	00:00:0c:07:ac:5a	513 (0x201)	36	No	No	0 1 2 3
4324	4e:41:50:00:07:01	2050 (0x802)	0	No	No	0 1 2 3
4356	00:17:5a:af:71:58	513 (0x201)	36	No	No	0 1 2 3
4568	b4:14:89:60:d8:80	513 (0x201)	36	No	No	0 1 2 3
4648	00:00:0c:07:ac:28	513 (0x201)	36	No	No	0 1 2 3
4772	00:00:0c:07:ac:32	513 (0x201)	36	No	No	0 1 2 3
5000	e2:3b:4f:77:04:03	2049 (0x801)	18	No	No	0 1 2 3
5296	00:04:4d:da:13:40	513 (0x201)	36	No	No	0 1 2 3
5588	00:00:0c:07:ac:3c	514 (0x202)	54	No	No	0 1 2 3
5624	e0:50:72:f4:dd:05	513 (0x201)	36	No	No	0 1 2 3
5712	e2:3b:4d:f0:93:00	2049 (0x801)	26	No	No	0 1 2 3
6092	00:04:4d:d8:4d:00	513 (0x201)	36	No	No	0 1 2 3
6552	e2:3b:43:46:6c:00	2049 (0x801)	5	No	No	0 1 2 3
6584	4e:41:50:00:00:12	2050 (0x802)	16	No	No	0 1 2 3
6656	6c:9c:ed:79:92:90	513 (0x201)	36	No	No	0 1 2 3
7572	4c:4e:35:b6:48:fb	2049 (0x801)	-	Yes	Yes	0 1 2 3
8432	46:70:39:1b:79:00	513 (0x201)	40	No	No	0 1 2 3
9048	88:43:e1:c2:b6:56	513 (0x201)	36	No	No	0 1 2 3
9240	00:0d:65:50:f3:1c	514 (0x202)	54	No	No	0 1 2 3
9356	00:04:4d:b2:47:00	514 (0x202)	54	No	No	0 1 2 3
9432	e2:3b:4f:77:04:00	2049 (0x801)	18	No	No	0 1 2 3
10596	00:b0:64:fd:56:14	513 (0x201)	36	No	No	0 1 2 3
11648	78:2b:cb:1e:0a:b3	513 (0x201)	36	No	No	0 1 2 3
12008	4e:41:50:00:00:11	2050 (0x802)	16	No	No	0 1 2 3
12344	00:00:0c:07:ac:01	513 (0x201)	36	No	No	0 1 2 3
12496	01:4d:4c:41:50:01	1025 (0x401)	-	Yes	Yes	0 1 2 3
12772	64:00:f1:42:09:12	514 (0x202)	54	No	No	0 1 2 3
12820	e4:d3:f1:a5:93:79	2049 (0x801)	32	No	No	0 1 2 3
12936	00:d0:97:6c:eb:00	513 (0x201)	36	No	No	0 1 2 3
12952	00:0d:5d:0a:5c:4c	514 (0x202)	54	No	No	0 1 2 3
13680	00:04:4d:da:2f:c0	513 (0x201)	36	No	No	0 1 2 3
13768	00:18:71:74:79:8e	514 (0x202)	54	No	No	0 1 2 3
13900	00:04:4d:bf:1e:40	513 (0x201)	36	No	No	0 1 2 3

13992	e0:52:2d:4c:bd:00	2049	(0x801)	0	No	No	0	1	2	3
14020	00:0d:5d:0a:52:06	514	(0x202)	54	No	No	0	1	2	3
14172	00:b0:64:fd:43:36	513	(0x201)	36	No	No	0	1	2	3
14392	e4:d3:f1:a5:93:76	2049	(0x801)	32	No	No	0	1	2	3
14456	00:0d:5d:0a:50:be	514	(0x202)	54	No	No	0	1	2	3
14808	00:b0:64:fd:18:4c	513	(0x201)	36	No	No	0	1	2	3
14944	fc:1f:87:cb:63:00	2049	(0x801)	4	No	No	0	1	2	3
14980	00:04:4d:da:64:80	513	(0x201)	36	No	No	0	1	2	3
15064	4e:41:50:00:10:01	2050	(0x802)	40	No	No	0	1	2	3
15392	00:0d:5d:0a:50:ec	513	(0x201)	36	No	No	0	1	2	3
15572	00:0d:5d:09:3c:5f	514	(0x202)	54	No	No	0	1	2	3
15620	01:4d:4c:41:50:01	2049	(0x801)	-	Yes	Yes	0	1	2	3
15780	00:10:7b:e8:70:4d	513	(0x201)	36	No	No	0	1	2	3
15796	00:0d:5d:0a:50:c2	513	(0x201)	36	No	No	0	1	2	3
15816	00:0d:5d:0a:52:bf	513	(0x201)	36	No	No	0	1	2	3
15888	4c:4e:35:b6:48:fc	2049	(0x801)	40	No	No	0	1	2	3
16808	00:0d:5d:0a:50:fa	514	(0x202)	54	No	No	0	1	2	3
16868	00:16:47:e4:b0:70	513	(0x201)	36	No	No	0	1	2	3
17368	00:04:4d:da:14:c0	513	(0x201)	36	No	No	0	1	2	3
17520	00:04:4d:da:53:00	513	(0x201)	36	No	No	0	1	2	3
17712	4c:4e:35:b6:48:fc	513	(0x201)	40	No	No	0	1	2	3
18116	00:13:80:44:f9:a0	513	(0x201)	36	No	No	0	1	2	3
18364	00:0d:5d:0a:52:bd	513	(0x201)	36	No	No	0	1	2	3
18496	00:11:43:5a:f4:c4	513	(0x201)	36	No	No	0	1	2	3
19388	00:10:7b:3b:9c:48	513	(0x201)	36	No	No	0	1	2	3
19604	00:b0:64:fd:17:e2	513	(0x201)	36	No	No	0	1	2	3
19772	00:0d:5d:0a:d8:fe	513	(0x201)	36	No	No	0	1	2	3
19976	00:1c:f6:37:b0:c0	513	(0x201)	36	No	No	0	1	2	3
20044	00:12:44:d9:f0:c0	514	(0x202)	54	No	No	0	1	2	3
20144	4e:41:50:00:11:01	2050	(0x802)	32	No	No	0	1	2	3
20364	42:80:8f:09:d1:78	513	(0x201)	36	No	No	0	1	2	3
20444	00:0d:5d:0a:50:a7	513	(0x201)	36	No	No	0	1	2	3
20632	00:04:4d:da:2d:80	513	(0x201)	36	No	No	0	1	2	3
20652	00:60:f4:fa:21:00	513	(0x201)	36	No	No	0	1	2	3
20884	00:04:4d:d8:47:40	513	(0x201)	36	No	No	0	1	2	3
20896	b4:14:89:60:d8:80	514	(0x202)	54	No	No	0	1	2	3
20924	00:1c:58:38:52:68	513	(0x201)	36	No	No	0	1	2	3
21060	00:04:4d:d9:f3:80	513	(0x201)	36	No	No	0	1	2	3
21268	00:0d:5d:0a:50:c4	513	(0x201)	36	No	No	0	1	2	3
21332	00:04:4d:d8:7d:40	513	(0x201)	36	No	No	0	1	2	3
21436	00:04:4d:d8:74:80	513	(0x201)	36	No	No	0	1	2	3
21476	00:0d:5d:0a:52:a3	513	(0x201)	36	No	No	0	1	2	3
21568	64:00:f1:41:ff:de	513	(0x201)	36	No	No	0	1	2	3
21968	e2:3b:4d:f0:ea:00	2049	(0x801)	10	No	No	0	1	2	3
22364	e2:3b:4d:f0:1d:00	2049	(0x801)	20	No	No	0	1	2	3
22368	4e:41:50:00:07:15	2050	(0x802)	0	No	No	0	1	2	3
22840	e0:50:bf:1c:f1:00	2049	(0x801)	16	No	No	0	1	2	3
22860	00:04:4d:da:35:c0	513	(0x201)	36	No	No	0	1	2	3
23168	4e:41:50:00:01:11	2050	(0x802)	18	No	No	0	1	2	3
23876	00:04:4d:da:55:00	513	(0x201)	36	No	No	0	1	2	3
26016	00:11:92:19:76:41	513	(0x201)	36	No	No	0	1	2	3
26184	00:0b:be:aa:fe:85	513	(0x201)	36	No	No	0	1	2	3
26228	00:0d:5d:0a:50:af	513	(0x201)	36	No	No	0	1	2	3
26592	4c:4e:35:b6:48:f9	2049	(0x801)	38	No	No	0	1	2	3
26632	00:1c:c0:4b:e5:72	513	(0x201)	36	No	No	0	1	2	3
26816	00:0e:83:47:6f:06	513	(0x201)	36	No	No	0	1	2	3
27188	4c:4e:35:b6:48:f9	1025	(0x401)	37	No	No	0	1	2	3
27380	e8:04:62:1d:47:c0	513	(0x201)	36	No	No	0	1	2	3
27620	e4:d3:f1:a5:93:7c	2049	(0x801)	32	No	No	0	1	2	3
28088	00:12:00:42:3d:80	513	(0x201)	36	No	No	0	1	2	3
28264	e0:50:bf:1c:f1:03	2049	(0x801)	16	No	No	0	1	2	3
28420	00:10:7b:e8:09:b7	513	(0x201)	36	No	No	0	1	2	3
28504	e0:52:2d:4c:bd:05	2049	(0x801)	0	No	No	0	1	2	3
28532	00:04:4d:da:5e:40	513	(0x201)	36	No	No	0	1	2	3

## show controller switch fdb

```

28704 01:4d:4c:41:50:00 2049 (0x801) - Yes Yes 0 1 2 3
28888 00:1a:4b:f8:a4:34 513 (0x201) 36 No No 0 1 2 3
29104 00:04:4d:da:18:c0 513 (0x201) 36 No No 0 1 2 3
29284 00:b0:64:fd:43:50 513 (0x201) 36 No No 0 1 2 3
29412 e4:d3:f1:a5:93:78 1025 (0x401) 34 No No 0 1 2 3
29472 00:d0:97:6c:f8:80 514 (0x202) 54 No No 0 1 2 3
29628 00:04:4d:b2:1e:80 513 (0x201) 36 No No 0 1 2 3
29924 4e:41:50:00:07:12 2050 (0x802) 0 No No 0 1 2 3
30020 00:00:0c:46:e4:f8 513 (0x201) 36 No No 0 1 2 3
30200 64:00:f1:42:07:da 514 (0x202) 54 No No 0 1 2 3
30364 00:04:4d:b4:38:80 513 (0x201) 36 No No 0 1 2 3
32040 e2:3b:4f:77:04:05 2049 (0x801) 18 No No 0 1 2 3
32184 4e:41:50:00:00:01 2050 (0x802) 16 No No 0 1 2 3
32572 4c:4e:35:b6:48:fe 514 (0x202) 40 No No 0 1 2 3

```

Total table entries: 127

```

Rack Card Switch
-----
0 RP1 RP-SW

```

```

FDB                               Src                               Synced
Index  MAC Address                   VLAN                               Port  Trap  Static  Cores
-----
396    00:b0:64:fd:51:68 513 (0x201) 36 No No 0 1 2 3
504    e0:52:2d:4c:bd:03 2049 (0x801) 32 No No 0 1 2 3
804    00:04:4d:d8:6a:c0 514 (0x202) 54 No No 0 1 2 3
960    00:50:54:80:a5:fb 513 (0x201) 36 No No 0 1 2 3
1724   e0:50:a0:bf:8c:00 2049 (0x801) 32 No No 0 1 2 3
1896   00:00:0c:07:ac:02 513 (0x201) 36 No No 0 1 2 3
1932   00:b0:64:fd:18:1c 513 (0x201) 36 No No 0 1 2 3
2092   00:10:7b:e8:09:f8 513 (0x201) 36 No No 0 1 2 3
2368   4c:4e:35:b6:48:ff 2049 (0x801) 32 No No 0 1 2 3
2512   4e:41:50:00:01:01 2050 (0x802) 32 No No 0 1 2 3
2756   00:04:4d:da:5b:40 513 (0x201) 36 No No 0 1 2 3
2920   e0:50:a0:bf:8c:00 1025 (0x401) 5 No No 0 1 2 3
2984   00:13:80:31:74:80 513 (0x201) 36 No No 0 1 2 3
3636   00:12:44:d9:f0:c0 513 (0x201) 36 No No 0 1 2 3
3732   00:04:4d:da:3c:c0 513 (0x201) 36 No No 0 1 2 3
4244   00:00:0c:07:ac:5a 513 (0x201) 36 No No 0 1 2 3
4324   4e:41:50:00:07:01 2050 (0x802) 32 No No 0 1 2 3
4356   00:17:5a:af:71:58 513 (0x201) 36 No No 0 1 2 3
4568   b4:14:89:60:d8:80 513 (0x201) 36 No No 0 1 2 3
4648   00:00:0c:07:ac:28 513 (0x201) 36 No No 0 1 2 3
4772   00:00:0c:07:ac:32 513 (0x201) 36 No No 0 1 2 3
5000   e2:3b:4f:77:04:03 2049 (0x801) 32 No No 0 1 2 3
5196   e2:3b:43:46:6c:00 1025 (0x401) 21 No No 0 1 2 3
5296   00:04:4d:da:13:40 513 (0x201) 36 No No 0 1 2 3
5588   00:00:0c:07:ac:3c 514 (0x202) 54 No No 0 1 2 3
5624   e0:50:72:f4:dd:05 513 (0x201) 36 No No 0 1 2 3
5712   e2:3b:4d:f0:93:00 2049 (0x801) 32 No No 0 1 2 3
6092   00:04:4d:d8:4d:00 513 (0x201) 36 No No 0 1 2 3
6552   e2:3b:43:46:6c:00 2049 (0x801) 32 No No 0 1 2 3
6584   4e:41:50:00:00:12 2050 (0x802) 32 No No 0 1 2 3
6656   6c:9c:ed:79:92:90 513 (0x201) 36 No No 0 1 2 3
7044   e2:3b:4d:f0:93:00 1025 (0x401) 10 No No 0 1 2 3
7572   4c:4e:35:b6:48:fb 2049 (0x801) 32 No No 0 1 2 3
9048   88:43:e1:c2:b6:56 513 (0x201) 36 No No 0 1 2 3
9356   00:04:4d:b2:47:00 514 (0x202) 54 No No 0 1 2 3
9432   e2:3b:4f:77:04:00 2049 (0x801) 32 No No 0 1 2 3
9468   00:16:47:e4:b0:57 513 (0x201) 36 No No 0 1 2 3
10508  e2:3b:4f:77:04:00 1025 (0x401) 2 No No 0 1 2 3
10596  00:b0:64:fd:56:14 513 (0x201) 36 No No 0 1 2 3
11648  78:2b:cb:1e:0a:b3 513 (0x201) 36 No No 0 1 2 3

```

12008	4e:41:50:00:00:11	2050	(0x802)	32	No	No	0 1 2 3
12344	00:00:0c:07:ac:01	513	(0x201)	36	No	No	0 1 2 3
12496	01:4d:4c:41:50:01	1025	(0x401)	-	Yes	Yes	0 1 2 3
12772	64:00:f1:42:09:12	514	(0x202)	54	No	No	0 1 2 3
12820	e4:d3:f1:a5:93:79	2049	(0x801)	40	No	No	0 1 2 3
12936	00:d0:97:6c:eb:00	513	(0x201)	36	No	No	0 1 2 3
12952	00:0d:5d:0a:5c:4c	514	(0x202)	54	No	No	0 1 2 3
13680	00:04:4d:da:2f:c0	513	(0x201)	36	No	No	0 1 2 3
13768	00:18:71:74:79:8e	514	(0x202)	54	No	No	0 1 2 3
13804	e4:d3:f1:a5:93:76	1025	(0x401)	37	No	No	0 1 2 3
13900	00:04:4d:bf:1e:40	513	(0x201)	36	No	No	0 1 2 3
13992	e0:52:2d:4c:bd:00	2049	(0x801)	32	No	No	0 1 2 3
14020	00:0d:5d:0a:52:06	514	(0x202)	54	No	No	0 1 2 3
14172	00:b0:64:fd:43:36	513	(0x201)	36	No	No	0 1 2 3
14260	fc:1f:87:cb:63:00	1025	(0x401)	20	No	No	0 1 2 3
14392	e4:d3:f1:a5:93:76	2049	(0x801)	38	No	No	0 1 2 3
14456	00:0d:5d:0a:50:be	514	(0x202)	54	No	No	0 1 2 3
14808	00:b0:64:fd:18:4c	513	(0x201)	36	No	No	0 1 2 3
14944	fc:1f:87:cb:63:00	2049	(0x801)	32	No	No	0 1 2 3
14980	00:04:4d:da:64:80	513	(0x201)	36	No	No	0 1 2 3
15064	4e:41:50:00:10:01	2050	(0x802)	32	No	No	0 1 2 3
15228	e0:52:2d:4c:bd:00	1025	(0x401)	16	No	No	0 1 2 3
15392	00:0d:5d:0a:50:ec	513	(0x201)	36	No	No	0 1 2 3
15572	00:0d:5d:09:3c:5f	514	(0x202)	54	No	No	0 1 2 3
15620	01:4d:4c:41:50:01	2049	(0x801)	-	Yes	Yes	0 1 2 3
15780	00:10:7b:e8:70:4d	513	(0x201)	36	No	No	0 1 2 3
15796	00:0d:5d:0a:50:c2	513	(0x201)	36	No	No	0 1 2 3
15816	00:0d:5d:0a:52:bf	513	(0x201)	36	No	No	0 1 2 3
15888	4c:4e:35:b6:48:fc	2049	(0x801)	32	No	No	0 1 2 3
16808	00:0d:5d:0a:50:fa	514	(0x202)	54	No	No	0 1 2 3
17368	00:04:4d:da:14:c0	513	(0x201)	36	No	No	0 1 2 3
17520	00:04:4d:da:53:00	513	(0x201)	36	No	No	0 1 2 3
18116	00:13:80:44:f9:a0	513	(0x201)	36	No	No	0 1 2 3
18364	00:0d:5d:0a:52:bd	513	(0x201)	36	No	No	0 1 2 3
18496	00:11:43:5a:f4:c4	513	(0x201)	36	No	No	0 1 2 3
18740	e4:d3:f1:a5:93:79	513	(0x201)	40	No	No	0 1 2 3
19388	00:10:7b:3b:9c:48	513	(0x201)	36	No	No	0 1 2 3
19604	00:b0:64:fd:17:e2	513	(0x201)	36	No	No	0 1 2 3
19772	00:0d:5d:0a:d8:fe	513	(0x201)	36	No	No	0 1 2 3
19976	00:1c:f6:37:b0:00	513	(0x201)	36	No	No	0 1 2 3
20044	00:12:44:d9:f0:c0	514	(0x202)	54	No	No	0 1 2 3
20144	4e:41:50:00:11:01	2050	(0x802)	40	No	No	0 1 2 3
20364	42:80:8f:09:d1:78	513	(0x201)	36	No	No	0 1 2 3
20444	00:0d:5d:0a:50:a7	513	(0x201)	36	No	No	0 1 2 3
20632	00:04:4d:da:2d:80	513	(0x201)	36	No	No	0 1 2 3
20652	00:60:f4:fa:21:00	513	(0x201)	36	No	No	0 1 2 3
20884	00:04:4d:d8:47:40	513	(0x201)	36	No	No	0 1 2 3
20896	b4:14:89:60:d8:80	514	(0x202)	54	No	No	0 1 2 3
20924	00:1c:58:38:52:68	513	(0x201)	36	No	No	0 1 2 3
21060	00:04:4d:d9:f3:80	513	(0x201)	36	No	No	0 1 2 3
21268	00:0d:5d:0a:50:c4	513	(0x201)	36	No	No	0 1 2 3
21332	00:04:4d:d8:7d:40	513	(0x201)	36	No	No	0 1 2 3
21436	00:04:4d:d8:74:80	513	(0x201)	36	No	No	0 1 2 3
21476	00:0d:5d:0a:52:a3	513	(0x201)	36	No	No	0 1 2 3
21568	64:00:f1:41:ff:de	513	(0x201)	36	No	No	0 1 2 3
21740	e0:50:bf:1c:f1:00	1025	(0x401)	0	No	No	0 1 2 3
21848	12:e8:cb:51:07:4b	513	(0x201)	40	No	No	0 1 2 3
21968	e2:3b:4d:f0:ea:00	2049	(0x801)	32	No	No	0 1 2 3
22364	e2:3b:4d:f0:1d:00	2049	(0x801)	32	No	No	0 1 2 3
22368	4e:41:50:00:07:15	2050	(0x802)	32	No	No	0 1 2 3
22532	e2:3b:4d:f0:ea:00	1025	(0x401)	26	No	No	0 1 2 3
22636	00:16:47:e4:b0:75	514	(0x202)	54	No	No	0 1 2 3
22840	e0:50:bf:1c:f1:00	2049	(0x801)	32	No	No	0 1 2 3
22860	00:04:4d:da:35:c0	513	(0x201)	36	No	No	0 1 2 3

## show controller switch fdb

```

23168 4e:41:50:00:01:11 2050 (0x802) 32 No No 0 1 2 3
23176 e2:3b:4d:f0:1d:00 1025 (0x401) 4 No No 0 1 2 3
23876 00:04:4d:da:55:00 513 (0x201) 36 No No 0 1 2 3
26016 00:11:92:19:76:41 513 (0x201) 36 No No 0 1 2 3
26184 00:0b:be:aa:fe:85 513 (0x201) 36 No No 0 1 2 3
26228 00:0d:5d:0a:50:af 513 (0x201) 36 No No 0 1 2 3
26592 4c:4e:35:b6:48:f9 2049 (0x801) 32 No No 0 1 2 3
26632 00:1c:c0:4b:e5:72 513 (0x201) 36 No No 0 1 2 3
26816 00:0e:83:47:6f:06 513 (0x201) 36 No No 0 1 2 3
27188 4c:4e:35:b6:48:f9 1025 (0x401) 34 No No 0 1 2 3
27380 e8:04:62:1d:47:c0 513 (0x201) 36 No No 0 1 2 3
27620 e4:d3:f1:a5:93:7c 2049 (0x801) 40 No No 0 1 2 3
28088 00:12:00:42:3d:80 513 (0x201) 36 No No 0 1 2 3
28264 e0:50:bf:1c:f1:03 2049 (0x801) 32 No No 0 1 2 3
28420 00:10:7b:e8:09:b7 513 (0x201) 36 No No 0 1 2 3
28532 00:04:4d:da:5e:40 513 (0x201) 36 No No 0 1 2 3
28704 e4:d3:f1:a5:95:38 513 (0x201) 40 No No 0 1 2 3
28888 00:1a:4b:f8:a4:34 513 (0x201) 36 No No 0 1 2 3
29104 00:04:4d:da:18:c0 513 (0x201) 36 No No 0 1 2 3
29284 00:b0:64:fd:43:50 513 (0x201) 36 No No 0 1 2 3
29412 e4:d3:f1:a5:93:78 1025 (0x401) - Yes Yes 0 1 2 3
29472 00:d0:97:6c:f8:80 514 (0x202) 54 No No 0 1 2 3
29496 e4:d3:f1:a5:93:7b 514 (0x202) 40 No No 0 1 2 3
29628 00:04:4d:b2:1e:80 513 (0x201) 36 No No 0 1 2 3
29924 4e:41:50:00:07:12 2050 (0x802) 32 No No 0 1 2 3
30020 00:00:0c:46:e4:f8 513 (0x201) 36 No No 0 1 2 3
30200 64:00:f1:42:07:da 514 (0x202) 54 No No 0 1 2 3
30364 00:04:4d:b4:38:80 513 (0x201) 36 No No 0 1 2 3
32184 4e:41:50:00:00:01 2050 (0x802) 32 No No 0 1 2 3
32244 01:4d:4c:41:50:00 1025 (0x401) - Yes Yes 0 1 2 3

```

Total table entries: 134

```

Rack Card Switch
-----
0 LC0 LC-SW

```

```

FDB
Index MAC Address VLAN Src Port Trap Static Synced Cores
-----
4 00:0d:5d:0a:5c:33 513 (0x201) 42 No No 0 2
200 e0:50:bf:1c:f1:05 2049 (0x801) 0 No No 0 2
328 00:1c:58:38:52:3e 513 (0x201) 42 No No 0 2
396 00:b0:64:fd:51:68 513 (0x201) 42 No No 0 2
476 00:b0:64:fd:18:a4 513 (0x201) 42 No No 0 2
477 00:b0:64:fd:20:ab 513 (0x201) 42 No No 0 2
504 e0:52:2d:4c:bd:03 2049 (0x801) 2 No No 0 2
960 00:50:54:80:a5:fb 513 (0x201) 42 No No 0 2
1688 00:0d:5d:0a:50:76 513 (0x201) 42 No No 0 2
1896 00:00:0c:07:ac:02 513 (0x201) 42 No No 0 2
1932 00:b0:64:fd:18:1c 513 (0x201) 42 No No 0 2
2092 00:10:7b:e8:09:f8 513 (0x201) 42 No No 0 2
2136 00:0d:5d:0a:50:b3 513 (0x201) 42 No No 0 2
2512 4e:41:50:00:01:01 2050 (0x802) 2 No No 0 2
2756 00:04:4d:da:5b:40 513 (0x201) 42 No No 0 2
2984 00:13:80:31:74:80 513 (0x201) 42 No No 0 2
3636 00:12:44:d9:f0:c0 513 (0x201) 42 No No 0 2
3732 00:04:4d:da:3c:c0 513 (0x201) 42 No No 0 2
4096 00:b0:64:fd:4b:fc 513 (0x201) 42 No No 0 2
4244 00:00:0c:07:ac:5a 513 (0x201) 42 No No 0 2
4324 4e:41:50:00:07:01 2050 (0x802) 2 No No 0 2
4356 00:17:5a:af:71:58 513 (0x201) 42 No No 0 2
4568 b4:14:89:60:d8:80 513 (0x201) 42 No No 0 2
4648 00:00:0c:07:ac:28 513 (0x201) 42 No No 0 2

```

4772	00:00:0c:07:ac:32	513	(0x201)	42	No	No	0	2
5000	e2:3b:4f:77:04:03	2049	(0x801)	2	No	No	0	2
5296	00:04:4d:da:13:40	513	(0x201)	42	No	No	0	2
5448	e0:50:bf:1c:f1:03	513	(0x201)	0	No	No	0	2
5624	e0:50:72:f4:dd:05	513	(0x201)	42	No	No	0	2
6092	00:04:4d:d8:4d:00	513	(0x201)	42	No	No	0	2
6312	00:1a:6c:40:e0:20	513	(0x201)	42	No	No	0	2
6584	4e:41:50:00:00:12	2050	(0x802)	34	No	No	0	2
6656	6c:9c:ed:79:92:90	513	(0x201)	42	No	No	0	2
7092	1e:f5:5c:2a:09:38	513	(0x201)	0	No	No	0	2
7096	00:0d:5d:0a:52:46	513	(0x201)	42	No	No	0	2
7112	00:18:71:4d:48:42	513	(0x201)	42	No	No	0	2
7532	00:10:7b:e8:09:d2	513	(0x201)	42	No	No	0	2
7572	4c:4e:35:b6:48:fb	2049	(0x801)	2	No	No	0	2
9048	88:43:e1:c2:b6:56	513	(0x201)	42	No	No	0	2
10484	00:0d:5d:0a:50:e8	513	(0x201)	42	No	No	0	2
10596	00:b0:64:fd:56:14	513	(0x201)	42	No	No	0	2
10732	00:0d:5d:0a:50:dc	513	(0x201)	42	No	No	0	2
11648	78:2b:cb:1e:0a:b3	513	(0x201)	42	No	No	0	2
12008	4e:41:50:00:00:11	2050	(0x802)	36	No	No	0	2
12344	00:00:0c:07:ac:01	513	(0x201)	42	No	No	0	2
12496	01:4d:4c:41:50:01	1025	(0x401)	-	Yes	Yes	0	2
12820	e4:d3:f1:a5:93:79	2049	(0x801)	2	No	No	0	2
12936	00:d0:97:6c:eb:00	513	(0x201)	42	No	No	0	2
13680	00:04:4d:da:2f:c0	513	(0x201)	42	No	No	0	2
13900	00:04:4d:bf:1e:40	513	(0x201)	42	No	No	0	2
14172	00:b0:64:fd:43:36	513	(0x201)	42	No	No	0	2
14808	00:b0:64:fd:18:4c	513	(0x201)	42	No	No	0	2
14980	00:04:4d:da:64:80	513	(0x201)	42	No	No	0	2
15064	4e:41:50:00:10:01	2050	(0x802)	2	No	No	0	2
15392	00:0d:5d:0a:50:ec	513	(0x201)	42	No	No	0	2
15620	01:4d:4c:41:50:01	2049	(0x801)	-	Yes	Yes	0	2
15780	00:10:7b:e8:70:4d	513	(0x201)	42	No	No	0	2
15796	00:0d:5d:0a:50:c2	513	(0x201)	42	No	No	0	2
15816	00:0d:5d:0a:52:bf	513	(0x201)	42	No	No	0	2
15888	4c:4e:35:b6:48:fc	2049	(0x801)	2	No	No	0	2
15928	00:10:7b:3b:80:52	513	(0x201)	42	No	No	0	2
15964	e0:50:bf:1c:f1:79	513	(0x201)	0	No	No	0	2
17368	00:04:4d:da:14:c0	513	(0x201)	42	No	No	0	2
17520	00:04:4d:da:53:00	513	(0x201)	42	No	No	0	2
17640	00:0d:5d:0a:50:9c	513	(0x201)	42	No	No	0	2
18092	00:10:7b:e8:09:bf	513	(0x201)	42	No	No	0	2
18116	00:13:80:44:f9:a0	513	(0x201)	42	No	No	0	2
18132	00:b0:64:fd:18:aa	513	(0x201)	42	No	No	0	2
18360	a0:00:b0:01:c1:a2	513	(0x201)	42	No	No	0	2
18364	00:0d:5d:0a:52:bd	513	(0x201)	42	No	No	0	2
18496	00:11:43:5a:f4:c4	513	(0x201)	42	No	No	0	2
19388	00:10:7b:3b:9c:48	513	(0x201)	42	No	No	0	2
19604	00:b0:64:fd:17:e2	513	(0x201)	42	No	No	0	2
19772	00:0d:5d:0a:d8:fe	513	(0x201)	42	No	No	0	2
19976	00:1c:f6:37:b0:00	513	(0x201)	42	No	No	0	2
20144	4e:41:50:00:11:01	2050	(0x802)	2	No	No	0	2
20364	42:80:8f:09:d1:78	513	(0x201)	42	No	No	0	2
20444	00:0d:5d:0a:50:a7	513	(0x201)	42	No	No	0	2
20632	00:04:4d:da:2d:80	513	(0x201)	42	No	No	0	2
20652	00:60:f4:fa:21:00	513	(0x201)	42	No	No	0	2
20884	00:04:4d:d8:47:40	513	(0x201)	42	No	No	0	2
20924	00:1c:58:38:52:68	513	(0x201)	42	No	No	0	2
21060	00:04:4d:d9:f3:80	513	(0x201)	42	No	No	0	2
21268	00:0d:5d:0a:50:c4	513	(0x201)	42	No	No	0	2
21332	00:04:4d:d8:7d:40	513	(0x201)	42	No	No	0	2
21436	00:04:4d:d8:74:80	513	(0x201)	42	No	No	0	2
21476	00:0d:5d:0a:52:a3	513	(0x201)	42	No	No	0	2
21568	64:00:f1:41:ff:de	513	(0x201)	42	No	No	0	2

## show controller switch fdb

```

21740 e0:50:bf:1c:f1:00 1025 (0x401) 9 No No 0 2
22304 00:b0:64:fd:1f:0a 513 (0x201) 42 No No 0 2
22516 78:2b:cb:1e:0a:b1 513 (0x201) 42 No No 0 2
22840 e0:50:bf:1c:f1:00 2049 (0x801) 8 No No 0 2
22860 00:04:4d:da:35:c0 513 (0x201) 42 No No 0 2
23568 00:0d:5d:0a:51:f2 513 (0x201) 42 No No 0 2
23876 00:04:4d:da:55:00 513 (0x201) 42 No No 0 2
25596 00:0d:5d:0a:22:32 513 (0x201) 42 No No 0 2
26016 00:11:92:19:76:41 513 (0x201) 42 No No 0 2
26184 00:0b:be:aa:fe:85 513 (0x201) 42 No No 0 2
26228 00:0d:5d:0a:50:af 513 (0x201) 42 No No 0 2
26536 00:b0:64:fd:43:60 513 (0x201) 42 No No 0 2
26632 00:1c:c0:4b:e5:72 513 (0x201) 42 No No 0 2
26816 00:0e:83:47:6f:06 513 (0x201) 42 No No 0 2
27048 00:15:62:c9:3d:00 513 (0x201) 42 No No 0 2
27380 e8:04:62:1d:47:c0 513 (0x201) 42 No No 0 2
28088 00:12:00:42:3d:80 513 (0x201) 42 No No 0 2
28264 e0:50:bf:1c:f1:03 2049 (0x801) 0 No No 0 2
28420 00:10:7b:e8:09:b7 513 (0x201) 42 No No 0 2
28532 00:04:4d:da:5e:40 513 (0x201) 42 No No 0 2
28668 00:0d:5d:0a:50:e6 513 (0x201) 42 No No 0 2
28888 00:1a:4b:f8:a4:34 513 (0x201) 42 No No 0 2
29104 00:04:4d:da:18:c0 513 (0x201) 42 No No 0 2
29284 00:b0:64:fd:43:50 513 (0x201) 42 No No 0 2
29412 e4:d3:f1:a5:93:78 1025 (0x401) 4 No No 0 2
29628 00:04:4d:b2:1e:80 513 (0x201) 42 No No 0 2
29696 00:0d:5d:0a:52:74 513 (0x201) 42 No No 0 2
30020 00:00:0c:46:e4:f8 513 (0x201) 42 No No 0 2
30316 00:1c:58:38:5a:b8 513 (0x201) 42 No No 0 2
30364 00:04:4d:b4:38:80 513 (0x201) 42 No No 0 2
31308 00:0d:5d:0a:52:ab 513 (0x201) 42 No No 0 2
31348 00:19:d1:e3:07:78 513 (0x201) 42 No No 0 2
31764 00:16:47:e4:b0:66 513 (0x201) 42 No No 0 2
32184 4e:41:50:00:00:01 2050 (0x802) 0 No No 0 2
32464 00:11:85:69:d0:f9 513 (0x201) 42 No No 0 2

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Total table entries: 123

Rack Card Switch

-----  
0 LC1 LC-SW

```

FDB                               Src                               Synced
Index  MAC Address                 VLAN                               Port  Trap  Static  Cores
-----
4      00:0d:5d:0a:5c:33             513 (0x201)                       42   No   No     0 2
328    00:1c:58:38:52:3e             513 (0x201)                       42   No   No     0 2
396    00:b0:64:fd:51:68             513 (0x201)                       42   No   No     0 2
476    00:b0:64:fd:18:a4             513 (0x201)                       42   No   No     0 2
477    00:b0:64:fd:20:ab             513 (0x201)                       42   No   No     0 2
504    e0:52:2d:4c:bd:03             2049 (0x801)                        2    No   No     0 2
960    00:50:54:80:a5:fb             513 (0x201)                       42   No   No     0 2
1688   00:0d:5d:0a:50:76             513 (0x201)                       42   No   No     0 2
1896   00:00:0c:07:ac:02             513 (0x201)                       42   No   No     0 2
1932   00:b0:64:fd:18:1c             513 (0x201)                       42   No   No     0 2
2092   00:10:7b:e8:09:f8             513 (0x201)                       42   No   No     0 2
2136   00:0d:5d:0a:50:b3             513 (0x201)                       42   No   No     0 2
2512   4e:41:50:00:01:01             2050 (0x802)                        0    No   No     0 2
2756   00:04:4d:da:5b:40             513 (0x201)                       42   No   No     0 2
2984   00:13:80:31:74:80             513 (0x201)                       42   No   No     0 2
3636   00:12:44:d9:f0:c0             513 (0x201)                       42   No   No     0 2
3732   00:04:4d:da:3c:c0             513 (0x201)                       42   No   No     0 2
4096   00:b0:64:fd:4b:fc             513 (0x201)                       42   No   No     0 2
4244   00:00:0c:07:ac:5a             513 (0x201)                       42   No   No     0 2

```



4324	4e:41:50:00:07:01	2050	(0x802)	2	No	No	0 2
4356	00:17:5a:af:71:58	513	(0x201)	42	No	No	0 2
4568	b4:14:89:60:d8:80	513	(0x201)	42	No	No	0 2
4648	00:00:0c:07:ac:28	513	(0x201)	42	No	No	0 2
4772	00:00:0c:07:ac:32	513	(0x201)	42	No	No	0 2
5000	e2:3b:4f:77:04:03	2049	(0x801)	0	No	No	0 2
5296	00:04:4d:da:13:40	513	(0x201)	42	No	No	0 2
5624	e0:50:72:f4:dd:05	513	(0x201)	42	No	No	0 2
6092	00:04:4d:d8:4d:00	513	(0x201)	42	No	No	0 2
6312	00:1a:6c:40:e0:20	513	(0x201)	42	No	No	0 2
6656	6c:9c:ed:79:92:90	513	(0x201)	42	No	No	0 2
7096	00:0d:5d:0a:52:46	513	(0x201)	42	No	No	0 2
7112	00:18:71:4d:48:42	513	(0x201)	42	No	No	0 2
7532	00:10:7b:e8:09:d2	513	(0x201)	42	No	No	0 2
7572	4c:4e:35:b6:48:fb	2049	(0x801)	2	No	No	0 2
9048	88:43:e1:c2:b6:56	513	(0x201)	42	No	No	0 2
9432	e2:3b:4f:77:04:00	2049	(0x801)	8	No	No	0 2
10484	00:0d:5d:0a:50:e8	513	(0x201)	42	No	No	0 2
10508	e2:3b:4f:77:04:00	1025	(0x401)	9	No	No	0 2
10596	00:b0:64:fd:56:14	513	(0x201)	42	No	No	0 2
10732	00:0d:5d:0a:50:dc	513	(0x201)	42	No	No	0 2
11648	78:2b:cb:1e:0a:b3	513	(0x201)	42	No	No	0 2
12344	00:00:0c:07:ac:01	513	(0x201)	42	No	No	0 2
12496	01:4d:4c:41:50:01	1025	(0x401)	-	Yes	Yes	0 2
12592	00:16:47:e4:b0:67	513	(0x201)	42	No	No	0 2
12820	e4:d3:f1:a5:93:79	2049	(0x801)	2	No	No	0 2
12936	00:d0:97:6c:eb:00	513	(0x201)	42	No	No	0 2
13680	00:04:4d:da:2f:c0	513	(0x201)	42	No	No	0 2
13900	00:04:4d:bf:1e:40	513	(0x201)	42	No	No	0 2
14172	00:b0:64:fd:43:36	513	(0x201)	42	No	No	0 2
14808	00:b0:64:fd:18:4c	513	(0x201)	42	No	No	0 2
14980	00:04:4d:da:64:80	513	(0x201)	42	No	No	0 2
15064	4e:41:50:00:10:01	2050	(0x802)	2	No	No	0 2
15392	00:0d:5d:0a:50:ec	513	(0x201)	42	No	No	0 2
15620	01:4d:4c:41:50:01	2049	(0x801)	-	Yes	Yes	0 2
15780	00:10:7b:e8:70:4d	513	(0x201)	42	No	No	0 2
15796	00:0d:5d:0a:50:c2	513	(0x201)	42	No	No	0 2
15816	00:0d:5d:0a:52:bf	513	(0x201)	42	No	No	0 2
15888	4c:4e:35:b6:48:fc	2049	(0x801)	2	No	No	0 2
15928	00:10:7b:3b:80:52	513	(0x201)	42	No	No	0 2
17340	e2:3b:4f:77:04:79	513	(0x201)	0	No	No	0 2
17368	00:04:4d:da:14:c0	513	(0x201)	42	No	No	0 2
17460	aa:93:c3:2b:71:7e	513	(0x201)	0	No	No	0 2
17520	00:04:4d:da:53:00	513	(0x201)	42	No	No	0 2
17640	00:0d:5d:0a:50:9c	513	(0x201)	42	No	No	0 2
18092	00:10:7b:e8:09:bf	513	(0x201)	42	No	No	0 2
18116	00:13:80:44:f9:a0	513	(0x201)	42	No	No	0 2
18132	00:b0:64:fd:18:aa	513	(0x201)	42	No	No	0 2
18360	a0:00:b0:01:c1:a2	513	(0x201)	42	No	No	0 2
18364	00:0d:5d:0a:52:bd	513	(0x201)	42	No	No	0 2
18496	00:11:43:5a:f4:c4	513	(0x201)	42	No	No	0 2
19388	00:10:7b:3b:9c:48	513	(0x201)	42	No	No	0 2
19604	00:b0:64:fd:17:e2	513	(0x201)	42	No	No	0 2
19772	00:0d:5d:0a:d8:fe	513	(0x201)	42	No	No	0 2
19976	00:1c:f6:37:b0:00	513	(0x201)	42	No	No	0 2
20144	4e:41:50:00:11:01	2050	(0x802)	2	No	No	0 2
20364	42:80:8f:09:d1:78	513	(0x201)	42	No	No	0 2
20444	00:0d:5d:0a:50:a7	513	(0x201)	42	No	No	0 2
20632	00:04:4d:da:2d:80	513	(0x201)	42	No	No	0 2
20652	00:60:f4:fa:21:00	513	(0x201)	42	No	No	0 2
20884	00:04:4d:d8:47:40	513	(0x201)	42	No	No	0 2
20924	00:1c:58:38:52:68	513	(0x201)	42	No	No	0 2
21060	00:04:4d:d9:f3:80	513	(0x201)	42	No	No	0 2
21268	00:0d:5d:0a:50:c4	513	(0x201)	42	No	No	0 2

## show controller switch fdb

```

21332 00:04:4d:d8:7d:40 513 (0x201) 42 No No 0 2
21436 00:04:4d:d8:74:80 513 (0x201) 42 No No 0 2
21476 00:0d:5d:0a:52:a3 513 (0x201) 42 No No 0 2
21568 64:00:f1:41:ff:de 513 (0x201) 42 No No 0 2
22304 00:b0:64:fd:1f:0a 513 (0x201) 42 No No 0 2
22516 78:2b:cb:1e:0a:b1 513 (0x201) 42 No No 0 2
22860 00:04:4d:da:35:c0 513 (0x201) 42 No No 0 2
23168 4e:41:50:00:01:11 2050 (0x802) 34 No No 0 2
23568 00:0d:5d:0a:51:f2 513 (0x201) 42 No No 0 2
23876 00:04:4d:da:55:00 513 (0x201) 42 No No 0 2
25596 00:0d:5d:0a:22:32 513 (0x201) 42 No No 0 2
26016 00:11:92:19:76:41 513 (0x201) 42 No No 0 2
26184 00:0b:be:aa:fe:85 513 (0x201) 42 No No 0 2
26228 00:0d:5d:0a:50:af 513 (0x201) 42 No No 0 2
26536 00:b0:64:fd:43:60 513 (0x201) 42 No No 0 2
26632 00:1c:c0:4b:e5:72 513 (0x201) 42 No No 0 2
26792 e2:3b:4f:77:04:03 513 (0x201) 0 No No 0 2
26816 00:0e:83:47:6f:06 513 (0x201) 42 No No 0 2
27048 00:15:62:c9:3d:00 513 (0x201) 42 No No 0 2
27380 e8:04:62:1d:47:c0 513 (0x201) 42 No No 0 2
28088 00:12:00:42:3d:80 513 (0x201) 42 No No 0 2
28264 e0:50:bf:1c:f1:03 2049 (0x801) 2 No No 0 2
28420 00:10:7b:e8:09:b7 513 (0x201) 42 No No 0 2
28532 00:04:4d:da:5e:40 513 (0x201) 42 No No 0 2
28668 00:0d:5d:0a:50:e6 513 (0x201) 42 No No 0 2
28888 00:1a:4b:f8:a4:34 513 (0x201) 42 No No 0 2
29104 00:04:4d:da:18:c0 513 (0x201) 42 No No 0 2
29284 00:b0:64:fd:43:50 513 (0x201) 42 No No 0 2
29412 e4:d3:f1:a5:93:78 1025 (0x401) 4 No No 0 2
29628 00:04:4d:b2:1e:80 513 (0x201) 42 No No 0 2
29696 00:0d:5d:0a:52:74 513 (0x201) 42 No No 0 2
30020 00:00:0c:46:e4:f8 513 (0x201) 42 No No 0 2
30316 00:1c:58:38:5a:b8 513 (0x201) 42 No No 0 2
30364 00:04:4d:b4:38:80 513 (0x201) 42 No No 0 2
31308 00:0d:5d:0a:52:ab 513 (0x201) 42 No No 0 2
31348 00:19:d1:e3:07:78 513 (0x201) 42 No No 0 2
32040 e2:3b:4f:77:04:05 2049 (0x801) 0 No No 0 2
32184 4e:41:50:00:00:01 2050 (0x802) 2 No No 0 2
32464 00:11:85:69:d0:f9 513 (0x201) 42 No No 0 2

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Total table entries: 122

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Rack Card Switch
-----
0 LC7 LC-SW

```

FDB Index	MAC Address	VLAN	Src Port	Trap	Static	Synced Cores
4	00:0d:5d:0a:5c:33	513 (0x201)	42	No	No	0 2
328	00:1c:58:38:52:3e	513 (0x201)	42	No	No	0 2
396	00:b0:64:fd:51:68	513 (0x201)	42	No	No	0 2
476	00:b0:64:fd:18:a4	513 (0x201)	42	No	No	0 2
477	00:b0:64:fd:20:ab	513 (0x201)	42	No	No	0 2
504	e0:52:2d:4c:bd:03	2049 (0x801)	0	No	No	0 2
508	b6:aa:1c:40:27:e2	513 (0x201)	0	No	No	0 2
960	00:50:54:80:a5:fb	513 (0x201)	42	No	No	0 2
1688	00:0d:5d:0a:50:76	513 (0x201)	42	No	No	0 2
1896	00:00:0c:07:ac:02	513 (0x201)	42	No	No	0 2
1932	00:b0:64:fd:18:1c	513 (0x201)	42	No	No	0 2
2092	00:10:7b:e8:09:f8	513 (0x201)	42	No	No	0 2
2136	00:0d:5d:0a:50:b3	513 (0x201)	42	No	No	0 2
2513	4e:41:50:00:01:01	2050 (0x802)	2	No	No	0 2
2756	00:04:4d:da:5b:40	513 (0x201)	42	No	No	0 2

2984	00:13:80:31:74:80	513	(0x201)	42	No	No	0	2
3636	00:12:44:d9:f0:c0	513	(0x201)	42	No	No	0	2
3732	00:04:4d:da:3c:c0	513	(0x201)	42	No	No	0	2
4096	00:b0:64:fd:4b:fc	513	(0x201)	42	No	No	0	2
4244	00:00:0c:07:ac:5a	513	(0x201)	42	No	No	0	2
4324	4e:41:50:00:07:01	2050	(0x802)	0	No	No	0	2
4356	00:17:5a:af:71:58	513	(0x201)	42	No	No	0	2
4568	b4:14:89:60:d8:80	513	(0x201)	42	No	No	0	2
4648	00:00:0c:07:ac:28	513	(0x201)	42	No	No	0	2
4772	00:00:0c:07:ac:32	513	(0x201)	42	No	No	0	2
5000	e2:3b:4f:77:04:03	2049	(0x801)	2	No	No	0	2
5296	00:04:4d:da:13:40	513	(0x201)	42	No	No	0	2
5624	e0:50:72:f4:dd:05	513	(0x201)	42	No	No	0	2
6092	00:04:4d:d8:4d:00	513	(0x201)	42	No	No	0	2
6312	00:1a:6c:40:e0:20	513	(0x201)	42	No	No	0	2
6656	6c:9c:ed:79:92:90	513	(0x201)	42	No	No	0	2
7096	00:0d:5d:0a:52:46	513	(0x201)	42	No	No	0	2
7112	00:18:71:4d:48:42	513	(0x201)	42	No	No	0	2
7532	00:10:7b:e8:09:d2	513	(0x201)	42	No	No	0	2
7572	4c:4e:35:b6:48:fb	2049	(0x801)	2	No	No	0	2
9048	88:43:e1:c2:b6:56	513	(0x201)	42	No	No	0	2
10484	00:0d:5d:0a:50:e8	513	(0x201)	42	No	No	0	2
10596	00:b0:64:fd:56:14	513	(0x201)	42	No	No	0	2
10732	00:0d:5d:0a:50:dc	513	(0x201)	42	No	No	0	2
11648	78:2b:cb:1e:0a:b3	513	(0x201)	42	No	No	0	2
12100	00:16:47:e4:b0:76	513	(0x201)	42	No	No	0	2
12344	00:00:0c:07:ac:01	513	(0x201)	42	No	No	0	2
12496	01:4d:4c:41:50:01	1025	(0x401)	-	Yes	Yes	0	2
12820	e4:d3:f1:a5:93:79	2049	(0x801)	2	No	No	0	2
12936	00:d0:97:6c:eb:00	513	(0x201)	42	No	No	0	2
13680	00:04:4d:da:2f:c0	513	(0x201)	42	No	No	0	2
13900	00:04:4d:bf:1e:40	513	(0x201)	42	No	No	0	2
13992	e0:52:2d:4c:bd:00	2049	(0x801)	8	No	No	0	2
14172	00:b0:64:fd:43:36	513	(0x201)	42	No	No	0	2
14808	00:b0:64:fd:18:4c	513	(0x201)	42	No	No	0	2
14980	00:04:4d:da:64:80	513	(0x201)	42	No	No	0	2
15064	4e:41:50:00:10:01	2050	(0x802)	2	No	No	0	2
15228	e0:52:2d:4c:bd:00	1025	(0x401)	9	No	No	0	2
15392	00:0d:5d:0a:50:ec	513	(0x201)	42	No	No	0	2
15620	01:4d:4c:41:50:01	2049	(0x801)	-	Yes	Yes	0	2
15780	00:10:7b:e8:70:4d	513	(0x201)	42	No	No	0	2
15796	00:0d:5d:0a:50:c2	513	(0x201)	42	No	No	0	2
15816	00:0d:5d:0a:52:bf	513	(0x201)	42	No	No	0	2
15888	4c:4e:35:b6:48:fc	2049	(0x801)	2	No	No	0	2
15928	00:10:7b:3b:80:52	513	(0x201)	42	No	No	0	2
17368	00:04:4d:da:14:c0	513	(0x201)	42	No	No	0	2
17520	00:04:4d:da:53:00	513	(0x201)	42	No	No	0	2
17640	00:0d:5d:0a:50:9c	513	(0x201)	42	No	No	0	2
18092	00:10:7b:e8:09:bf	513	(0x201)	42	No	No	0	2
18116	00:13:80:44:f9:a0	513	(0x201)	42	No	No	0	2
18132	00:b0:64:fd:18:aa	513	(0x201)	42	No	No	0	2
18360	a0:00:b0:01:c1:a2	513	(0x201)	42	No	No	0	2
18364	00:0d:5d:0a:52:bd	513	(0x201)	42	No	No	0	2
18496	00:11:43:5a:f4:c4	513	(0x201)	42	No	No	0	2
19388	00:10:7b:3b:9c:48	513	(0x201)	42	No	No	0	2
19604	00:b0:64:fd:17:e2	513	(0x201)	42	No	No	0	2
19772	00:0d:5d:0a:d8:fe	513	(0x201)	42	No	No	0	2
19976	00:1c:f6:37:b0:00	513	(0x201)	42	No	No	0	2
20144	4e:41:50:00:11:01	2050	(0x802)	2	No	No	0	2
20364	42:80:8f:09:d1:78	513	(0x201)	42	No	No	0	2
20444	00:0d:5d:0a:50:a7	513	(0x201)	42	No	No	0	2
20632	00:04:4d:da:2d:80	513	(0x201)	42	No	No	0	2
20652	00:60:f4:fa:21:00	513	(0x201)	42	No	No	0	2
20884	00:04:4d:d8:47:40	513	(0x201)	42	No	No	0	2

## show controller switch fdb

20924	00:1c:58:38:52:68	513	(0x201)	42	No	No	0	2
20940	e0:52:2d:4c:bd:79	513	(0x201)	0	No	No	0	2
21060	00:04:4d:d9:f3:80	513	(0x201)	42	No	No	0	2
21268	00:0d:5d:0a:50:c4	513	(0x201)	42	No	No	0	2
21332	00:04:4d:d8:7d:40	513	(0x201)	42	No	No	0	2
21436	00:04:4d:d8:74:80	513	(0x201)	42	No	No	0	2
21476	00:0d:5d:0a:52:a3	513	(0x201)	42	No	No	0	2
21568	64:00:f1:41:ff:de	513	(0x201)	42	No	No	0	2
22304	00:b0:64:fd:1f:0a	513	(0x201)	42	No	No	0	2
22368	4e:41:50:00:07:15	2050	(0x802)	6	No	No	0	2
22516	78:2b:cb:1e:0a:b1	513	(0x201)	42	No	No	0	2
22860	00:04:4d:da:35:c0	513	(0x201)	42	No	No	0	2
23568	00:0d:5d:0a:51:f2	513	(0x201)	42	No	No	0	2
23876	00:04:4d:da:55:00	513	(0x201)	42	No	No	0	2
25596	00:0d:5d:0a:22:32	513	(0x201)	42	No	No	0	2
26016	00:11:92:19:76:41	513	(0x201)	42	No	No	0	2
26184	00:0b:be:aa:fe:85	513	(0x201)	42	No	No	0	2
26228	00:0d:5d:0a:50:af	513	(0x201)	42	No	No	0	2
26536	00:b0:64:fd:43:60	513	(0x201)	42	No	No	0	2
26632	00:1c:c0:4b:e5:72	513	(0x201)	42	No	No	0	2
26816	00:0e:83:47:6f:06	513	(0x201)	42	No	No	0	2
27048	00:15:62:c9:3d:00	513	(0x201)	42	No	No	0	2
27380	e8:04:62:1d:47:c0	513	(0x201)	42	No	No	0	2
28088	00:12:00:42:3d:80	513	(0x201)	42	No	No	0	2
28264	e0:50:bf:1c:f1:03	2049	(0x801)	2	No	No	0	2
28420	00:10:7b:e8:09:b7	513	(0x201)	42	No	No	0	2
28504	e0:52:2d:4c:bd:05	2049	(0x801)	0	No	No	0	2
28532	00:04:4d:da:5e:40	513	(0x201)	42	No	No	0	2
28668	00:0d:5d:0a:50:e6	513	(0x201)	42	No	No	0	2
28888	00:1a:4b:f8:a4:34	513	(0x201)	42	No	No	0	2
29104	00:04:4d:da:18:c0	513	(0x201)	42	No	No	0	2
29284	00:b0:64:fd:43:50	513	(0x201)	42	No	No	0	2
29412	e4:d3:f1:a5:93:78	1025	(0x401)	4	No	No	0	2
29628	00:04:4d:b2:1e:80	513	(0x201)	42	No	No	0	2
29696	00:0d:5d:0a:52:74	513	(0x201)	42	No	No	0	2
29924	4e:41:50:00:07:12	2050	(0x802)	34	No	No	0	2
30020	00:00:0c:46:e4:f8	513	(0x201)	42	No	No	0	2
30316	00:1c:58:38:5a:b8	513	(0x201)	42	No	No	0	2
30364	00:04:4d:b4:38:80	513	(0x201)	42	No	No	0	2
31308	00:0d:5d:0a:52:ab	513	(0x201)	42	No	No	0	2
31348	00:19:d1:e3:07:78	513	(0x201)	42	No	No	0	2
31448	e0:52:2d:4c:bd:03	513	(0x201)	0	No	No	0	2
32184	4e:41:50:00:00:01	2050	(0x802)	2	No	No	0	2
32464	00:11:85:69:d0:f9	513	(0x201)	42	No	No	0	2

Total table entries: 123

# show controller switch mlap

To display various MLAP (minimal loop avoidance protocol) details, use the **show controller switch mlap** command in the System Admin EXEC mode.

```
show controller switch mlap [{detail [location node-id port-number] | statistics [location node-id] | location [node-id] | reachable | trace {all trace-name} location node-id [{all trace-attribute}]}
```

Syntax Description	detail	Displays detailed MLAP (minimal loop avoidance protocol) information for a single switch port.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
	<i>port-number</i>	Specifies the switch port.
	<b>statistics</b>	Displays MLAP switch statistics data.
	<b>reachable</b>	Lists all control plane Ethernet switches serviced by MLAP.
	<b>trace</b>	Displays the MLAP trace information.
	<i>trace-name</i>	Trace name.
	<i>trace-attribute</i>	Trace attribute.

**Command Default** Displays statistics summary for each node.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Displays MLAP information for only RPs (Router Processors).

This example shows how to display detailed MLAP information for a single switch port:

```
sysadmin-vm:0_RP0# show controller switch mlap detail location 0/RP0/RP-SW 2
Tue Aug 13 08:19:17.156 UTC
MLAP Summary Information For Internal Switch Port 2 (0/RP0/RP-SW)
  Rack serial number:          FMP12160201
  Connects to:                LC6
  Physical port state:        Down
  Administrative port state:   Up
  Port protocol state:        Down
```

```
Forwarding state:          -
Protocol type:             Internal
Good protocol packets sent: 0
Good protocol packets received: 0
Set VLAN requests:        0
Set VLAN responses:        0
Protocol packet send errors: 0
Protocol packet receive errors: 0
Protocol state changes:    1
MLAP Detailed Information For Internal Endpoint
Port MLAP owner:          RP0
Card controlling packet path: Unknown
Peer MLAP protocol flags: Ignore-Data
Peer idle count to endpoint: 5
This active connection mask: 0x00002000000800006
Peer active connection mask: 0x00000000000000000
Connected endpoint card type: Unknown
.
.
.
```

# show controller switch reachable

To list all control plane Ethernet switches to which connectivity is established, use the **show controller switch reachable** command in the System Admin EXEC mode.

## show controller switch reachable

**Syntax Description** This command has no keywords or arguments.

**Command Default** None

**Command Modes** System Admin EXEC

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command to verify connectivity between various nodes in the system.

## Example

This example shows how to list the control plane Ethernet switches:

```
sysadmin-vm:0_RP0#show controller switch reachable
```

```
Rack  Card  Switch
-----
0     RP0   RP-SW
0     RP1   RP-SW
0     LC3   LC-SW
```

# show controller switch sdr

To display the control plane Ethernet port statistics information specific to an SDR, use the **show controller switch sdr** command in the System Admin EXEC mode.

**show controller switch sdr** {1 | 2} **port-statistics location** [*node-id*]

Syntax Description		
<b>sdr 1</b>		Indicates the admin plane.
<b>sdr 2</b>		Indicates the first SDR created in the system. By default, the value for sdr 2 is <b>default-sdr</b> .
<b>port-statistics</b>		Displays the SDR port statistics.
<b>location</b> <i>node-id</i>		Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
<b>Command Default</b>	Displays information for all the nodes.	
<b>Command Modes</b>	System Admin EXEC	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.

This example shows how to view the SDR port statistics information:

```
sysadmin-vm:0_RP0#show controller switch sdr 1 port-statistics location 0/LC3/LC-SW
```

```
Tue Aug 13 05:17:04.962 UTC
Switch Traffic Packet Traffic
Port Type Direction Class Conforming Exceeding Dropped
-----
0 IPC Rx 0 1113702 0 0
1 0 0 0
2 0 0 0
3 0 0 0
4 0 0 0
5 0 0 0
6 0 0 0
7 87755 0 0
MgmtEth Tx - 3493443 0 0
Rx 0 0 0 0
1 0 0 0
2 0 0 0
3 0 0 0
4 0 0 0
5 0 0 0
6 0 0 0
7 0 0 0
Tx - 1507838 0 0
2 IPC Rx 0 1282246 0 0
1 0 0 0
```



--More--

## show controller switch sdr global-statistics

To display the SDR global-statistics summary, use the **show controller switch sdr global-statistics** command in the System Admin EXEC mode.

**show controller switch sdr global-statistics location** [*node-id*]

<b>Syntax Description</b>	<b>location</b> <i>node-id</i>	Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
<b>Command Default</b>	Displays information for all nodes.	
<b>Command Modes</b>	System Admin EXEC	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.

This example shows how to view the SDR global statistics information:

```
sysadmin-vm:0_RP0#show controller switch sdr global-statistics location 0/LC3/LC-SW
```

```
Tue Aug 13 05:43:51.230 UTC
SDR ID   SDR Name   Traffic Type   Traffic Class   Conforming   Exceeding   Dropped
-----
1        Calvados   IPC     0        1473518      0           0
          1          0           0           0
          2          0           0           0
          3          0           0           0
          4          0           0           0
          5          0           0           0
          6          0           0           0
          7          2573111      0           0
          MgmtEth 0          1534353      0           0
          1          0           0           0
          2          0           0           0
          3          0           0           0
          4          0           0           0
          5          0           0           0
          6          0           0           0
          7          0           0           0
2        default-sdr IPC     0        6904586      0           0
          1          0           0           0
          2          0           0           0
          3          0           0           0
--More--
```

# show controller switch sdr policers

To display the SDR policers summary, use the **show controller switch sdr policers** command in the System Admin EXEC mode.

**show controller switch sdr policers location** [*node-id*]

<b>Syntax Description</b>	<b>location</b> <i>node-id</i>	Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
<b>Command Default</b>	Displays information for all nodes.	
<b>Command Modes</b>	System Admin EXEC	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.
<b>Usage Guidelines</b>	To display CoS (class of service) parameters for an SDR, use this command.	

This example shows how to view the SDR policers summary:

```
sysadmin-vm:0_RP0#show controller switch sdr policers location 0/LC3/LC-SW
```

```
Tue Aug 13 06:02:04.950 UTC
controller switch sdr policers location 0/LC3/LC-SW
Summary Policer Information for Switch 0/LC3/LC-SW
  Port Policing Enabled:          Yes
  Port Committed Burst Size (bytes): 102400
  Port Peak Burst Size (bytes):   204800
  Port Policer MRU (bytes):       10240
  Global Policing Enabled:       No
  Global Committed Burst Size (bytes): 102400
  Global Peak Burst Size (bytes):  204800
  Global Policer MRU (bytes):     10240
```

SDR ID	SDR Name	SDR CIR(%)	SDR PIR(%)	CoS B/W	CoS 0 (%)	CoS 1 (%)	CoS 2 (%)	CoS 3 (%)	CoS 4 (%)	CoS 5 (%)	CoS 6 (%)	CoS 7 (%)
1	Calvados	20	90	CIR	20	5	5	10	10	10	20	20
				PIR	100	50	50	50	100	100	100	100
2	default-sdr	40	90	CIR	20	5	5	10	10	10	20	20

# show controller switch sdr port-statistics

To display the SDR port-statistics summary, use the **show controller switch sdr port-statistics** command in the System Admin EXEC mode.

**show controller switch sdr port-statistics location** [*node-id*] [*port-number*]

Syntax Description	location <i>node-id</i>	Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
	<i>port-number</i>	Displays SDR port-statistics of the specified port.

**Command Default** Displays information for all the nodes.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command to display packet statistics for each of the traffic class.

This example shows how to view the SDR port-statistics summary:

```

sysadmin-vm:0_RP0#show controller switch sdr port-statistics location 0/LC3/LC-SW

Tue Aug 13 06:18:01.250 UTC
Switch SDR
Port ID SDR Name Traffic Packet
Type Direction Conforming Exceeding Dropped
-----
0 1 Calvados IPC Rx 1215851 0 0
Tx 3531794 0 0
MgmtEth Rx 0 0 0
Tx 1525602 0 0
2 default-sdr IPC Rx 6153150 0 0
Tx 8294939 0 0
MgmtEth Rx 0 0 0
Tx 0 0 0
2 1 Calvados IPC Rx 3532095 0 0
Tx 2349934 0 0
2 default-sdr IPC Rx 8294945 0 0
Tx 6153144 0 0
4 1 Calvados IPC Rx 809583 0 0
Tx 809583 0 0
2 default-sdr IPC Rx 0 0 0
Tx 0 0 0
6 2 default-sdr IPC Rx 0 0 0
Tx 0 0 0
8 1 Calvados IPC Rx 1134092 0 0
Tx 2559058 0 0
--More--

```

# show controller switch sfp

To display the SFP (Small Form-Factor Pluggable) information, use the **show controller switch sfp** command in the System Admin EXEC mode.

```
show controller switch sfp {detail location node-id port-number | summary location [node-id] [port-number]}
```

Syntax Description	detail	Displays the SFP information in detail.
	<i>port-number</i>	Displays the SFP information of the specified port. Range is from 0 to 59.
	<b>summary</b>	Displays the summary of SFP information.
	<b>location</b> <i>node-id</i>	Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.

**Command Default** If *node-id* is not specified for the **show controller switch sfp summary location** command, then the information for all the nodes is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** SFPs are supported only on the RP (Route Processors).

This example shows how to view the SFP detailed information:

```
sysadmin-vm:0_RP0#show controller switch sfp detail location 0/RP0/RP-SW 54
```

```
Fri Aug 30 19:49:58.155 UTC
SFP EEPROM Data for Switch Port 54
  Transceiver Type:                SFP
  Transceiver Code:                SFP-1G-LX
  Encoding:                        8B/10B
  Bit Rate (Mbps):                 1300
  Link Reach for 9u Fiber (kilometers): 10
  Link Reach for 9u Fiber (meters): 10000
  Link Reach for 50u (OM2) Fiber (meters): 550
  Link Reach for 62.5u (OM1) Fiber (meters): 550
  Vendor Name:                     CISCO-FINISAR
  Vendor OUI:                      00.90.65
  Vendor Part #:                   FTLF1318P2BCL-CS (Rev. 0000)
  Laser Wavelength (nano-meters): 1310
  Implemented Options:              LOS,TxDisable
  Vendor Serial #:                 FNS11250BP3
  Date Code (yy/mm/dd):            07/06/18 (lot code:  )
  Diagnostic Monitoring:           AvePwrMon
  Enhanced Options:
```

## show controller switch sfp

```

SFP MSA Data
0x0000: 03 04 07 00 00 00 02 00 : 00 00 00 01 0D 00 0A 64 .....d
0x0010: 37 37 00 00 43 49 53 43 : 4F 2D 46 46 49 4E 49 53 41 77..CISCO.FINISA
0x0020: 52 20 20 20 00 00 90 65 : 46 54 4C 46 31 33 31 38 R.....eFTLF1318
0x0030: 50 32 42 43 4C 2D 43 53 : 30 30 30 30 05 1E 00 EB P2BCL.CS0000....
0x0040: 00 12 00 00 46 4E 53 31 : 31 32 35 30 42 50 33 20 ....FNS11250BP3.
0x0050: 20 20 20 20 30 37 30 36 : 31 38 20 20 08 00 00 D5 ....070618.....

Threshold Data
Temperature
  Alarm High: -0.004 C
  Warning High: -0.004 C
  Warning Low: -0.004 C
  Alarm Low: -0.004 C
Voltage
  Alarm High: 6.554 Volt
  Warning High: 6.554 Volt
  Warning Low: 6.554 Volt
  Alarm Low: 6.554 Volt
Bias
  Alarm High: 131.070 mAmps
  Warning High: 131.070 mAmps
  Warning Low: 131.070 mAmps
  Alarm Low: 131.070 mAmps
Tx Power
  Alarm High: 6.554 mW (8.16 dBm)
  Warning High: 6.554 mW (8.16 dBm)
  Warning Low: 6.554 mW (8.16 dBm)
  Alarm Low: 6.554 mW (8.16 dBm)
Rx Power
  Alarm High: 6.554 mW (8.16 dBm)
  Warning High: 6.554 mW (8.16 dBm)
  Warning Low: 6.554 mW (8.16 dBm)
  Alarm Low: 6.554 mW (8.16 dBm)

Real Time Data
Temperature: -0.004 C
Voltage: 6.554 Volt
Bias: 131.070 mAmps
Tx Power: 6.554 mW (8.16 dBm)
Rx Power: 6.554 mW (8.16 dBm)
Current Status/Control:
DataReadyBar,RxLOS,TxFault,SoftRateSel0Eq1,RateSel0Eq1,RateSel1Eq1,SoftTxDisable,TxDisable

SFP A2 Data [Lower]
0x0000: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0010: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0020: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0030: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0040: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0050: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0060: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....
0x0070: FF FF FF FF FF FF FF FF : FF FF FF FF FF FF FF FF .....

Cisco SFP Information
CLEI Code: CN8ID42AAA
Part Number: 30-1299-01 (ver: V01 )
Minimum Temperature (C): 251
Maximum Temperature (C): 70
Product Id: GLC-LH-SM

SFP A2 Data [Upper]
0x0080: 43 4E 38 49 44 34 32 41 : 41 41 33 30 2D 31 32 39 CN8ID42AAA30.129

```

```

0x0090: 39 2D 30 31 56 30 31 20 : 4B FB 46 00 00 00 00 D5 9.01V01.K.F.....
0x00A0: 00 00 00 00 00 00 00 00 : 00 00 00 00 00 00 00 00 .....
0x00B0: 00 00 00 00 00 00 00 00 : 00 00 00 00 00 00 AA AA .....
0x00C0: 47 4C 43 2D 4C 48 2D 53 : 4D 20 20 20 20 20 20 20 GLC.LH.SM.....
0x00D0: 20 20 20 20 20 20 20 20 : 20 20 20 20 20 20 20 24 .....
0x00E0: 00 00 00 00 00 00 00 00 : 00 00 00 00 00 00 00 00 .....
0x00F0: 00 00 00 00 00 00 00 00 : 00 40 00 40 00 00 00 00 .....
    
```

# show controller switch statistics

To display switch statistics, use the **show controller switch statistics** command in the System Admin EXEC mode.

```
show controller switch statistics {detail [location node-id port-number] | location [node-id] [port-number]}
```

Syntax Description	detail	Displays detailed switch port statistics.
	<b>location</b> <i>node-id</i>	Specifies the location from which to display information. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
	<i>port-number</i>	Displays switch statistics of the specified port. Range is from 0 to 59.

**Command Default** If *node-id* is not specified for the **show controller switch statistics location** command, then the information for all the nodes is displayed.

Also, if the **show controller switch statistics detail** command is used without the **location** keyword, then the information for all the ports on all the nodes is displayed.

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** This command displays statistics for all the internal ports present in the Ethernet switch. It also displays connectivity information between each switch port and nodes in the system.

This example shows how to display the switch statistics information:

```
sysadmin-vm:0_RP0# show controller switch statistics location 0/RP0/RP-SW
Thu Aug 29 12:17:32.631 UTC
Rack Card Switch Rack Serial Number
-----
0 RP0 RP-SW FMP12160201

Port Phys State Tx Rx Tx Rx Connects To
State Changes Packets Packets Errors Errors
-----
0 Down 1 0 0 0 0 LC7
2 Down 1 0 0 0 0 LC6
4 Up 1 2209750 1783057 0 0 FC0
5 Down 0 0 0 0 0 FC1
6 Down 1 0 0 0 0 LC5
8 Down 1 0 0 0 0 LC4
10 Down 0 0 0 0 0 FC2
16 Down 1 0 0 0 0 LC0
18 Down 1 0 0 0 0 LC1
20 Down 0 0 0 0 0 FC5
```



```

21   Down   0         0         0         0         0         FC4
22   Down   1         0         0         0         0         LC2
24   Up     11        1474511   913984    0         0         LC3
26   Down   0         0         0         0         0         FC3
32   Up     11        2219574   1788393   0         0         RP1 Card (RP0 Ctrl)
34   Up     11        142616    142622    0         0         RP1 Card (RP1 Ctrl)

```

The following example shows how to display the switch statistics information in detail:

```
sysadmin-vm:0_RP0#show controller switch statistics detail location 0/RP0/RP-SW 2
```

```

          Phys   Port
Rack  Card  Switch  Port  State  Speed  Connects To
-----
0     RP0   RP-SW   2     Down  10-Gbps  LC6

Rx Unicast Packets:  0
Rx Multicast Packets: 0
Rx Broadcast Packets: 0
Rx Flow Control:    0
Rx Good Octets:     0
Rx Bad Octets:      0
Rx FIFO Overrun:    0
Rx Undersize:       0
Rx Fragments:       0
Rx Oversize:        0
Rx Jabber:          0
Rx Errors:          0
Rx Bad CRC:         0
Rx Collisions:      0
Tx Unicast Packets: 0
Tx Multicast Packets: 0
Tx Broadcast Packets: 0
--More--

```

# show controller switch summary

To display the switch status summary, use the **show controller switch summary** command in the System Admin EXEC mode.

**show controller switch summary** [**location** *[node-id]* [*port-number*]]

<b>Syntax Description</b>	<b>location</b> <i>node-id</i>	Selects the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.
	<i>port-number</i>	Displays switch status summary of the specified port.

**Command Default** Displays information for all the nodes.

**Command Modes** System Admin EXEC

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Release 5.0.0	This command was introduced.

**Usage Guidelines** This command is used to display the status of each port on the switch.

This example shows how to view the switch summary status:

```
sysadmin-vm:0_RP0#show controller switch summary location 0/RP0/RP-SW
```

```
Fri Aug 16 06:05:56.205 UTC
Rack Card Switch Rack Serial Number
-----
0 RP0 RP-SW FMP12160201

Port Phys Admin Port Protocol Forward Connects To
-----
0 Down Up 10-Gbps Down - LC7
2 Down Up 10-Gbps Down - LC6
4 Up Up 1-Gbps Active Forwarding FC0
5 Down Up 1-Gbps Down - FC1
6 Down Up 10-Gbps Down - LC5
8 Down Up 10-Gbps Down - LC4
10 Down Up 1-Gbps Down - FC2
16 Down Up 10-Gbps Down - LC0
18 Down Up 10-Gbps Down - LC1
20 Down Up 1-Gbps Down - FC5
21 Down Up 1-Gbps Down - FC4
22 Down Up 10-Gbps Down - LC2
24 Up Up 10-Gbps Active Forwarding LC3
26 Down Up 1-Gbps Down - FC3
32 Up Up 10-Gbps Active Forwarding RP1 Card (RP0 Ctrl)
34 Up Up 10-Gbps - Forwarding RP1 Card (RP1 Ctrl)
--More--
```

# show controller switch trace

To display the switch trace information, use the **show controller switch trace** command in the System Admin EXEC mode.

```
show controller switch trace {all trace-name} location node-id [{all trace-attribute}]
```

Syntax Description		
	<i>trace-name</i>	Trace name.
	<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot</i> notation.
	<i>trace-attribute</i>	Trace attribute.
	<b>all</b>	Displays all the details.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Used for diagnostics only.

This example shows how to view the switch trace information:

```
sysadmin-vm:0_RP0#show controller switch trace system_event location 0/RP0 all

Sat Sep 14 05:52:52.133 UTC
02.58.39.459393536:* *** Starting ESD *** *
02.58.39.459511168:Init: Basic initialization complete. Entering main event handler
02.58.42.114090368:Event: CCC cardinfo: ESD personality configured as RP0 (cmdline ignored)
02.58.42.114091648:Event: CCC cardinfo: platform set as Production Panini
02.58.42.114172800:INV: Skip starting of the RP switch till chassis info is received.
02.58.42.114238336:INV: In Non-dual router mode
02.58.42.114239232:INV: Starting RP switch from chassisinfo_cb.
02.58.42.215374208:Event: CCC information received. Start switch
02.58.42.255279360:CCC PON: flag (0x1) indicates PON will program Black Vlan translations for all SDR's
02.58.42.270560768:HWID:Board Type 0x1e0800 SLOT:0 HWID:|3c08:3_10.0
02.58.42.270562432:HWID:Board Type 0x1e0800 SLOT:0 HWID:|3c08:3_11.0
02.58.42.270562944:HWID:Board Type 0x1e0800 SLOT:0 HWID:|3c08:3_12.0
02.58.42.270563456:HWID:Board Type 0x1e0800 SLOT:0 HWID:|3c08:3_13.0
02.58.44.112152704:Event: Switch Status Online. Init CPSS and config switch
02.58.44.112175488:Init: Switch is capable of hotplug and reset
02.58.44.112237056:Reg read for is_restart, reg 0x2800c1c, data 0x0
02.58.44.112240512:Init: Is NOT RESTART
02.58.44.112242304:SPI: Version read from flash 1.32
```

```
02.58.44.112242688:SPI: Version: OK 1.32
02.58.44.112248960:CPSS HA: Is ENABLED. Start HA recovery
02.58.44.324463616:CPSS HA: Recovery complete
02.58.44.326155136:Info: CPSS Version: CPSS 4.0.2 Release
02.58.44.326188288:Info: Switch Device Information
    Type           : 0xE01F11AB
    Revision        : 3
    Family          : 14
    Max port num    : 59
02.58.44.375312512:Init: CPSS initialization done. Start switch configutation
02.58.44.375330048:Init: Last exit was due to power cycle or unknown reason
02.58.44.375524096:Init: Before cpps based switch init, Global Config Register 0x58,
0x881e4003
02.58.44.379397888:SPI: Data verify OK: Config Verify Calv Black Vlan Xlate: OK
02.58.44.380258816:SPI: Data verify OK: existing config OK: expected Calv vlans exist on
ports
02.58.44.470336384:SPI: Existing SPI based switch initial config is OK
02.58.44.471564032:Init: TXQ Config is ENABLED. Init OK
--More--
```

# show controller switch vlan

To display the control plane Ethernet VLAN information, use the **show controller switch vlan** command in the System Admin EXEC mode.

```
show controller switch vlan {[vlan-id] location [node-id] | information location [node-id] | membership location [node-id] | rules location [node-id] [port-number]}
```

Syntax Description	
<i>vlan-id</i>	Specifies the VLAN ID.
<b>information</b>	Displays the allocated VLANs for each SDR.
<b>membership</b>	Lists the switch port membership of VLANs.
<b>rules</b>	Displays VLAN rule summary.
<i>port-number</i>	Displays VLAN rule information of the specified port.
<b>location</b> <i>node-id</i>	Specifies the target location. The <i>node-id</i> argument is expressed in the <i>rack/slot/switch</i> notation.

**Command Default** None

**Command Modes** System Admin EXEC

Command History	Release	Modification
	Release 5.0.0	This command was introduced.

**Usage Guidelines** Use this command to view the VLANs allocated to an SDR.

This example shows how to view the controller switch VLAN information:

```
sysadmin-vm:0_RP0#show controller switch vlan information location 0/LC3/LC-SW
```

```
Fri Aug 16 10:03:17.881 UTC
```

```
SDR
```

Identifier	SDR Name	VLAN	VLAN Use
1	Calvados	513 (0x201)	Calvados Management
		1025 (0x401)	Calvados RP1 Hosted IPC
		2049 (0x801)	Calvados RP0 Hosted IPC
2	default-sdr	1026 (0x402)	SDR 2 RP1 Hosted IPC
		2050 (0x802)	SDR 2 RP0 Hosted IPC

■ show controller switch vlan