ASIC Commands

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

counter	Clears the fabric up-down counters information.
statistics	Clears the fabric statistics counters information.
plane	Clears the fabric plane.
plane-id	Specifies the fabric plane number. Range is from 0 to 5.
all	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.

Examples

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

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          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

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

Examples

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

      Phys   State    Tx       Rx       Tx      Rx
```

```
Port  State  Changes  Packets  Packets  Errors  Errors  Connects To
-------------------------------------------------------------------------
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
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 *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* notation.

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.

Examples

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
              RXDISPERR : 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                       Ethernet Port 1
  ---------------                       ---------------
    RX packets    : 1796109               RX packets    : 1820809
    RX bytes      : 265125327             RX bytes      : 266179825
    RX size errors: 0                     RX size errors: 0
    RX CRC errors : 0                     RX CRC errors : 0
    TX packets    : 1793201               TX packets    : 1818744
    TX bytes      : 168747236             TX bytes      : 170262340

  CCC-to-CCC Counter                    Response Packet Counters
  ------------------                    ------------------------
    Incoming local        : 4             Sent  : 3611922
    Incoming packet errors: 0             Resent: 0
    Incoming filtered     : 2122          Errors: 0
    Outgoing sent         : 11
    Outgoing resent       : 20

  Other Counters                        Push Packet Counters
  --------------                        --------------------
    Ethernet runt errors : 0              Sent  : 0
    Header errors        : 1552           Resent: 0
    Request received     : 3611918        Errors: 0
    CCC-to-CCC received  : 3456           Acks  : 0
    Unknown type received: 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 *node-id* argument is expressed in the *rack*/*slot* 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.

Examples

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
  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 stage1:0

     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

detail	Displays CCC inventory detailed information
summary	Displays the card inventory summary.
status	Displays CCC status related information.
version	Displays CCC version information.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* 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 **summary** keyword was enhanced to display the card state information.

Examples

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 :
                                  BP                    HW
Location Card Type                ID    Serial Number   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

slave	Displays card notification history for the slave CCC driver. Do not use if only one RP is installed in the chassis.
detail	Displays detailed information about CCC notification history.
brief	Displays brief information about CCC notification history.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* notation. If node-id 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

Release	Modification
Release 5.2.3	This command was introduced.

Examples

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*

Syntax Description

slave	Displays card OIR history as tracked from the slave CCC driver. Do not use if only one RP is installed in the chassis.
rack *rack_number*	The OIR information is displayed for the cards on the specified rack.

Command Default

Displays OIR history from the master CCC driver.

Command Modes

System Admin EXEC mode

Command History

Release	Modification
Release 5.2.3	This command was introduced.

Examples

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 *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* 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.

Examples

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

onboard	Displays CCC reset history in onboard EEPROM.
onchip	Displays on-chip reset history entries since last CCC cold reset.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* 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.

Examples

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.
offset *address*	Specifies the offset address for ccc register information. Specify the address as a hexadecimal value. Range is from 0x0 to 0x17FFF.
range *start-address end-address*	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.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* notation.

Command Default

None

Command Modes

System Admin EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Examples

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
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*]

Syntax Description

trace-name	Trace name.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* notation.
trace-attributes	Trace attribute.
all	Displays all the details.

Command Default

None

Command Modes

System Admin EXEC mode

Command History

Release	Modification
Release 5.0.0	This command was introduced.
Release 5.2.3	New trace names were added.

Examples

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 SDROM 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_spinfo
12.15.56.862452608:DS entry found
12.15.56.862453504:fpd_client_connect_confd 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:Confd DS entry found notification
12.15.56.862498688:fpd_client_connect_confd called
12.15.56.862564480: fpd_client_connect_confd(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_confd_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 Registeration
12.15.59.492334336:instagt_register_for_notif rc=0
```

show controller fabric fgid information

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

show controller fabric fgid information {**all** | **id** *fgid*} [**brief** | **detail**| **diagnostics**]

Syntax Description

all	Displays all FGID information.
id *fgid*	Specifies the FGID number.
brief	Displays brief information.
detail	Displays information in detail.
diagnostics	Compares and displays FGID bitmap and SFE bitmap 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

When the **diagnostics** keyword is used and if there is a mismatch between information present in the FGID manager and the SFE driver hardware, an error is displayed.

Examples

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

```
sysadmin-vm:0_RP0#show controller fabric fgid information id 32240 diagnostics

Starting FGID: 32240
The requested number of FGIDs to display: 1

FGID Information:


FGID number:           32240

FGID Hex bitmap:
        0x0000000001000111 0000000000000000 0000000000000000 0000000000000000
        0x0000000000000000 0000000000000000 0000000000000000 0000000000000000
        0x0000000000000000 0000000000000000 0000000000000000 0000000000000000
```

```
        0x0000000000000000 0000000000000000 0000000000000000 0000000000000000
        0x0000000000000000 0000000000000000 0000000000000000 0000000000000000

FGID Binary bitmap:
        00000000000000000000000000000000000000000000000100000000000000100010001
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000
        00000000000000000000000000000000000000000000000000000000000000000000000


FGID associated fabricq Ids:
[4] :=
        0/0/0, 0/0/4, 0/1/2, 0/4/0,

FGID associated client application:
client id = 2, client name = Jabed, SDR name = default-sdr

FGID bitmap at location 0/SM1/0, Status: ERR
s123: 00000000000000000000000000000000000000000000000000000000000000000000000
     -00000000000000000000000000000000000000000100000000000000000000000000000

FGID bitmap at location 0/SM1/1, Status: ERR
s123: 00000000000000000000000000000000000000000000000000000000000000000000000
     -00000000000000000000000000000000000000000100000000000000000000000000000

FGID bitmap at location 0/SM4/0, Status: ERR
s123: 00000000000000000000000000000000000000000000000000000000000000000000000
     -00000000000000000000000000000000000000000100000000000000000000000000000

FGID bitmap at location 0/SM4/1, Status: ERR
s123: 00000000000000000000000000000000000000000000000000000000000000000000000
     -00000000000000000000000000000000000000000100000000000000000000000000000
```

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.
startfgid	Specifies the start FGID id. Range is from 0 to 524287.
endfgid	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.

Examples

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

all	Displays FGID resource information for all SDRs on the current system.
sdr	Name of the SDR. The **default-sdr** is the only available option.
sdr-name	Specifies the name of the SDR. The **default-sdr** is the only available option.
all	Specifies all secure domain routers.
application	Specifies the allocated FGID resource per application.
application-name	Specifies the application name. The default available options are: • MRIB-ipv4-default • MRIB-ipv6-default **Note** The applications created by the users are also listed.
id *fgid-id*	Indicates the starting fgid number. Range is from 0 to 524288
elements *num-elements*	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.

Examples

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

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

Examples

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 {**all**| *trace-name*} **location** *node-id* [**all**| *trace-attribute*]

Syntax Description

trace-name	Trace name.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* notation. **Note** Specify only the Route Processor (RP) location.
trace-attribute	Trace attribute.
all	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).

Examples

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="1376077744439000000"
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

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

Examples

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

rack-number	Specifies the rack number. The value can range from 0 to 15 or from F0 to F3.
destination *id*	Indicates the destination. The *id* can range from 0 to 1023 or can be provided in the asic location format (R/S/A).
all	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.

Examples

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

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

Examples

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.

Examples

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

    Plane Plane    SFE Asics    Amba
    id    state    T/U/D        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

port	Displays the link information for the selected fabric port: • fia • s1 • s3
fia	Displays the information of the fabric interface asic (fia) link port.
s1	Displays the information of the s1 link port.
s2	Displays the information of the s2 link port.
s3	Displays the information of the s3 link port.
statistics	Displays the statistics.
link-location	Displays the fabric link information for the specified link-location: • *R*—Rack. Range is from 0 to 15 or F0 to F3. • *S*—Slot. Range is from 0 to 7 or FC0 to FC11. • *A*—ASIC. Range is from 0 to 5. • *L*—Link. Range is from 0 to 127.
all	Displays all the fabric link information for specified ports.
state	Displays the link state.
down	Displays links information of the specified ports that are in down state.
mismatch	Displays links information of the specified ports whose operational state and admin state do not match.

up	Displays links information of the specified ports that are in up state.
brief	Displays summarized fabric link information.
detail	Displays detailed fabric link 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 supported link ports are FIA (fabric interface asic), s1, and s3.

Examples 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      Admin   Other         Near-end   Far-end
R/S/A/P       /Oper   End           Bport      Bport
              State
------------------------------------------------------------------
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

plane-id	Plane number. Range is from 0 to 5.
all	Displays information about all the system fabric planes.
statistics	Displays plane statistics.
brief	Displays brief information about the system fabric plane or plane statistics.
detail	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.

Examples

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

b2b	Displays b2b (back to back) asic information.
fia	Displays fia (fabric interface asic) information
s123	Displays information about the s123 asic of the switch fabric element.
s13	Displays information about the s13 asic of the switch fabric element.
s2	Displays information about the s2 asic of the switch fabric element.
asic-location	Specifies the ASIC location: • *R*—Rack. Range is from 0 to 15 or F0 to F3. • *S*—Slot. Range is from 0 to 7 or FC0 to FC11. • *A*—ASIC. Range is from 0 to 5.
all	Displays all ASICs information about the switch fabric elements.
brief	Displays summarized information.
detail	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.

Examples

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          Admin    Oper
  R/S/A         State    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          Admin    Oper
  R/S/A         State    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

plane-id	Plane number. Range is from 0 to 5.
all	Displays information about all the system fabric planes.
statistics	Displays plane statistics.
brief	Displays brief information about the system fabric plane or plane statistics.
detail	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.

Examples

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*

Syntax Description

rack-number	Specifies the rack number from which to display information.

Command Default

None

Command Modes

System Admin EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

The **show controller sfe driver rack** command is used to view whether the driver is connected with collaborator processes, libraries, and ASICs state. Used for diagnostics only.

Examples

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

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

Examples 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

--------------------------------------------------------------------------------
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)             Status
--------------------------------------------------------------------------------
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

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

Examples

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

block *block-stats*	Displays the statistics of the specified block. The value for *block-stats* can be one of the following: • CCS • DCH • DCMA • DCMB • DCl • ECI • FMAC • RTP
instance	Indicates an ASIC instance
asic-instance	Displays statistics for a specific ASIC.
all	Displays statistics for all asics or nodes.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* 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.

Examples 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 CdmbLpCellsDiscardCnt:           0
CCS1 CdmbLpCellsDiscardCnt:           0
CCS0 CrpParityErrCnt:                 0
CCS1 CrpParityErrCnt:                 0
CCS0 Ecc1bErrCnt:                     0
CCS1 Ecc1bErrCnt:                     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

trace-name	Trace buffer name.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* notation.
trace-attribute	Trace attribute.
all	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.

Examples

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

all<*slice_number*>	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.
reset-history [**summary** | **detail**]	Provides information about the reset history of the slice. The summary and detail options provides a brief output.
location [*node-id*]	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.

Examples

```
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

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

Examples

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  eeprom  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 1sec_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
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_VP0P9_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-----             ----
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
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 1sec_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 1sec_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 1sec_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 1sec_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
send update          :false
num 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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
poll intvl           :10
delta                :185
raw data             :435
sensor value         :10875
unit                 :2
last value           :10975
send update          :false
num 1sec_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 1sec_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 1sec_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 1sec_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 *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot* 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.

Examples

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

node-id	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot* 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

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.

Examples

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  eeprom  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 1sec_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 1sec_intervals   :2

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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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                    ------             ----
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_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
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
=============================================================
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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_intervals  :5

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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_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 1sec_intervals   :6

volt_sensor id       :11
sensor id            :LTC4151_VP0P9_AVS
dev addr             :17168
poll intvl           :10
delta                :185
raw data             :433
sensor value         :10825
unit                 :2
last value           :10800
send update          :false
num 1sec_intervals   :6

volt_sensor id       :12
sensor id            :LTC4151_VP0P9_PITA
dev addr             :17192
poll intvl           :10
delta                :185
raw data             :445
sensor value         :11125
unit                 :2
last value           :11200
send update          :false
num 1sec_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
unit                 :2
last value           :11000
```

```
send update          :false
num 1sec_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 1sec_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 1sec_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 *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.
mac *mac-address*	Displays the switch FDB information based on the MAC address.
port *port-number*	Displays the switch FDB information based on the source port filter.
statistics	Displays the FDB statistics.
vlan *vlan-id*	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.

Examples

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

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                                        Src                Synced
Index  MAC Address        VLAN            Port  Trap  Static  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:b0:00  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)  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
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
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                                    Src                Synced
Index  MAC Address        VLAN         Port  Trap  Static  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
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

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
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

Total table entries: 122

Rack  Card  Switch
------------------
0     LC7   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)  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
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.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.
port-number	Specifies the switch port.
statistics	Displays MLAP switch statistics data.
reachable	Lists all control plane Ethernet switches serviced by MLAP.
trace	Displays the MLAP trace information.
trace-name	Trace name.
trace-attribute	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).

Examples

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:      0x0000200000800006
    Peer active connection mask:      0x0000000000000000
    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

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

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

Examples

This example shows how to list the control place 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

sdr 1	Indicates the admin plane.
sdr 2	Indicates the first SDR created in the system. By default, the value for sdr 2 is **default-sdr**.
port-statistics	Displays the SDR port statistics.
location *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.

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.

Examples

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
                 Tx         -        3493443     0          0
        MgmtEth  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*]

Syntax Description

location *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.

Command Default

Displays information for all nodes.

Command Modes

System Admin EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Examples

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
                     Traffic  Traffic
SDR ID  SDR Name     Type     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*]

Syntax Description

location *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.

Command Default

Displays information for all nodes.

Command Modes

System Admin EXEC

Command History

Release	Modification
Release 5.0.0	This command was introduced.

Usage Guidelines

To display CoS (class of service) parameters for an SDR, use this command.

Examples

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     SDR     CoS  CoS   CoS   CoS   CoS   CoS   CoS   CoS   CoS
SDR ID  SDR Name      CIR(%)  PIR(%)  B/W  0(%)  1(%)  2(%)  3(%)  4(%)  5(%)  6(%)  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 *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.
port-number	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.

Examples

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               Traffic  Packet
Port    ID   SDR Name     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.
port-number	Displays the SFP information of the specified port. Range is from 0 to 59.
summary	Displays the summary of SFP information.
location *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* 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).

Examples

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:

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 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.
location *node-id*	Specifies the location from which to display information. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.
port-number	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.

Examples

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

      Phys   State    Tx       Rx       Tx      Rx
Port  State  Changes  Packets  Packets  Errors  Errors  Connects To
-------------------------------------------------------------------------------
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*]]

Syntax Description

location *node-id*	Selects the target location. The *node-id* argument is expressed in the *rack*/*slot*/*switch* notation.
port-number	Displays switch status summary 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

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

Examples

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

      Phys   Admin  Port     Protocol  Forward
Port  State  State  Speed    State     State       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

trace-name	Trace name.
location *node-id*	Specifies the target location. The *node-id* argument is expressed in the *rack/slot* notation.
trace-attribute	Trace attribute.
all	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.

Examples

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 hand
                                            ler
02.58.42.114090368:Event: CCC cardinfo: ESD personality configured as RP0 (cmdli
                                            ne 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 rece
                                            ived.
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 tra
                                            nslations 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

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

Examples

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
```