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Show Commands

This chapter describes the Cisco NX-OS **show** commands used to manage a Cisco Nexus 2000 Series Fabric Extender from a Cisco Nexus 5000 Series switch.

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show diagnostic result fex

To display the results from the diagnostic tests for a Fabric Extender chassis, use the **show diagnostic result fex** command.

show diagnostic result fex *chassis_ID*

Syntax Description	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
Command Default	None	
Command Modes	EXEC mode	
Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples

This example shows how to display the results from the diagnostic tests for a Fabric Extender:

```
switch# show diagnostic result fex 100
FEX-100: 48x1GE/Supervisor SerialNo   : JAF1237ABSE
Overall Diagnostic Result for FEX-100  : OK

Test results: (. = Pass, F = Fail, U = Untested)
TestPlatform:
0)                SPROM: -----> .
1)                MV88E6095: -----> .
2)                Fan: -----> .
3)                Power Supply: -----> .
4) Temperature Sensor: -----> .

TestForwardingPorts:
Eth   1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Port -----
      .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

Eth   25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
Port -----
      .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .

TestFabricPorts:
Fabric 1  2  3  4
Port -----
      .  .  .  .

switch#
```

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Related Commands

Command	Description
show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show environment fex

To display the environmental sensor status, use the **show environment fex** command.

show environment fex {**all** | *chassis_ID*} [**temperature** | **power** | **fan**]

Syntax Description		
all		Displays information for all Fabric Extender chassis.
<i>chassis_ID</i>		Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
temperature		(Optional) Displays temperature sensor information.
power		(Optional) Displays power capacity and power distribution information.
fan		(Optional) Displays fan information.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples This example shows how to display the environmental sensor status for a Fabric Extender:

```
switch# show environment fex 100
```

Temperature Fex 100:

Module	Sensor	MajorThresh (Celsius)	MinorThres (Celsius)	CurTemp (Celsius)	Status
1	Outlet-1	85	75	50	ok
1	Inlet-1	100	90	37	ok

Fan Fex: 100:

Fan	Model	Hw	Status
Chassis	N2K-C2148-FAN	--	ok
PS-1	N5K-PAC-200W	--	ok
PS-2	--	--	absent

Power Supply Fex 100:

Voltage: 12 Volts				
PS	Model	Power (Watts)	Power (Amp)	Status
1	N5K-PAC-200W	0.00	0.00	ok

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```

2  --          --          --          --

Mod Model                Power      Power      Power      Power      Status
Requested Requested  Allocated Allocated
(Watts)   (Amp)      (Watts)   (Amp)
-----
1  N5K-C5110T-BF-1GE  24.00     2.00       24.00     2.00       powered-up

Power Usage Summary:
-----
Power Supply redundancy mode:          redundant

Total Power Capacity                  0.00 W

Power reserved for Supervisor(s)      24.00 W
Power currently used by Modules        0.00 W

Total Power Available                  -24.00 W
-----
switch#

```

Related Commands

Command	Description
show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show fex

To display information about a specific Fabric Extender or all attached chassis, use the **show fex** command.

show fex [*chassis_ID* [*detail*]]

Syntax Description	<i>chassis_ID</i>	(Optional) Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
	detail	(Optional) Displays a detailed listing.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples This example shows how to display information about all attached Fabric Extender chassis:

```
switch# show fex
FEX          FEX          FEX          FEX
Number      Description    State         Model         Serial
-----
100          FEX0100                Online      N5K-C5110T-BF-1GE  JAF1237ABSE
101          FEX0101                Online      N2K-C2248TP-1GE   JAF11223333
102          FEX0102                Online      N5K-C5110T-BF-1GE  JAF1241BLHQ
105          FEX0105                Online      N2K-C2232P-10GE    JAF1331AKBM
switch#
```

This example shows how to display information about a specific Fabric Extender chassis:

```
switch# show fex 101
FEX: 101 Description: FEX0101   state: Online
    FEX version: 4.2(1)N1(1) [Switch version: 4.2(1)N1(1)]
    Extender Model: N2K-C2248TP-1GE,  Extender Serial: JAF11223333
    Part No: 73-12748-01
pinning-mode: static    Max-links: 1
Fabric port for control traffic: Eth3/5
Fabric interface state:
    Po5 - Interface Up. State: Active
    Eth3/5 - Interface Up. State: Active
    Eth3/6 - Interface Up. State: Active
switch#
```

This example shows how to display the detailed information about all attached Fabric Extender chassis:

```
switch# show fex detail
FEX: 100 Description: FEX0100   state: Online
    FEX version: 4.2(1)N1(1) [Switch version: 4.2(1)N1(1)]
```

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```

FEX Interim version: 4.2(1)N1(0.309)
Switch Interim version: 4.2(1)N1(0.309)
Extender Model: N5K-C5110T-BF-1GE, Extender Serial: JAF1237ABSE
Part No: 73-12009-02
Card Id: 70, Mac Addr: 00:0d:ec:b1:13:02, Num Macs: 64
Module Sw Gen: 12594 [Switch Sw Gen: 21]
post level: complete
pinning-mode: static Max-links: 1
Fabric port for control traffic: Eth3/3
Fabric interface state:
  Po12 - Interface Up. State: Active
  Eth3/3 - Interface Up. State: Active
  Eth3/4 - Interface Up. State: Active
Fex Port      State Fabric Port Primary Fabric
  Eth100/1/1   Up      Po12      Po12
  Eth100/1/2   Up      Po12      Po12
  Eth100/1/3   Up      Po12      Po12
  Eth100/1/4   Up      Po12      Po12
  Eth100/1/5   Up      Po12      Po12
  Eth100/1/6   Up      Po12      Po12
  Eth100/1/7   Up      Po12      Po12
  Eth100/1/8   Up      Po12      Po12
  Eth100/1/9   Up      Po12      Po12
  Eth100/1/10  Up      Po12      Po12
  Eth100/1/11  Up      Po12      Po12
  Eth100/1/12  Up      Po12      Po12
  Eth100/1/13  Up      Po12      Po12
  Eth100/1/14  Up      Po12      Po12
  Eth100/1/15  Up      Po12      Po12
  Eth100/1/16  Up      Po12      Po12
  Eth100/1/17  Up      Po12      Po12
  Eth100/1/18  Up      Po12      Po12
  Eth100/1/19  Up      Po12      Po12
  Eth100/1/20  Up      Po12      Po12
  Eth100/1/21  Up      Po12      Po12
  Eth100/1/22  Up      Po12      Po12
  Eth100/1/23  Up      Po12      Po12
--More--
switch#

```

Related Commands

Command	Description
fex	Creates a Fabric Extender and enters fabric extender configuration mode.

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show fex detail

To display detailed information about a specific Fabric Extender or all attached chassis, use the **show fex detail** command.

show fex detail

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

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	4.2(1)N1(1)	This command was introduced.

Examples	This example shows how to display detailed information about all attached Fabric Extender chassis:
-----------------	--

```
switch# show fex detail
FEX: 100 Description: FEX0100   state: Online
  FEX version: 4.2(1)N1(1) [Switch version: 4.2(1)N1(1)]
  FEX Interim version: 4.2(1)N1(0.326)
  Switch Interim version: 4.2(1)N1(0.326)
  Extender Model: N5K-C5110T-BF-1GE,   Extender Serial: JAF1237ABSE
  Part No: 73-12009-02
  Card Id: 70, Mac Addr: 00:0d:ec:b1:13:02, Num Macs: 64
  Module Sw Gen: 12594   [Switch Sw Gen: 21]
  post level: complete
pinning-mode: static   Max-links: 1
Fabric port for control traffic: Eth3/4
Fabric interface state:
  Po12 - Interface Up. State: Active
  Eth3/3 - Interface Up. State: Active
  Eth3/4 - Interface Up. State: Active
Fex Port      State  Fabric Port  Primary Fabric
  Eth100/1/1   Up      Po12         Po12
  Eth100/1/2   Up      Po12         Po12
  Eth100/1/3   Up      Po12         Po12
  Eth100/1/4   Up      Po12         Po12
  Eth100/1/5   Up      Po12         Po12
  Eth100/1/6   Up      Po12         Po12
  Eth100/1/7   Up      Po12         Po12
  Eth100/1/8   Up      Po12         Po12
  Eth100/1/9   Up      Po12         Po12
  Eth100/1/10  Up      Po12         Po12
  Eth100/1/11  Up      Po12         Po12
  Eth100/1/12  Up      Po12         Po12
  Eth100/1/13  Up      Po12         Po12
  Eth100/1/14  Up      Po12         Po12
  Eth100/1/15  Up      Po12         Po12
  Eth100/1/16  Up      Po12         Po12
```


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Eth100/1/17	Up	Po12	Po12
Eth100/1/18	Up	Po12	Po12
Eth100/1/19	Up	Po12	Po12
Eth100/1/20	Up	Po12	Po12
Eth100/1/21	Up	Po12	Po12
Eth100/1/22	Up	Po12	Po12
Eth100/1/23	Up	Po12	Po12
Eth100/1/24	Up	Po12	Po12
Eth100/1/25	Up	Po12	Po12
Eth100/1/26	Up	Po12	Po12
Eth100/1/27	Up	Po12	Po12
Eth100/1/28	Up	Po12	Po12
Eth100/1/29	Up	Po12	Po12
Eth100/1/30	Up	Po12	Po12
Eth100/1/31	Up	Po12	Po12
Eth100/1/32	Up	Po12	Po12
Eth100/1/33	Down	Po12	Po12
Eth100/1/34	Down	Po12	Po12
Eth100/1/35	Down	Po12	Po12
Eth100/1/36	Down	Po12	Po12
Eth100/1/37	Down	Po12	Po12
Eth100/1/38	Down	Po12	Po12
Eth100/1/39	Down	Po12	Po12
Eth100/1/40	Up	Po12	Po12
Eth100/1/41	Up	Po12	Po12
Eth100/1/42	Up	Po12	Po12
Eth100/1/43	Up	Po12	Po12
Eth100/1/44	Up	Po12	Po12
Eth100/1/45	Up	Po12	Po12
Eth100/1/46	Up	Po12	Po12
Eth100/1/47	Up	Po12	Po12
Eth100/1/48	Up	Po12	Po12

Logs:

```

04/16/2010 05:05:23.441707: Module register received
04/16/2010 05:05:23.442886: Registration response sent
04/16/2010 05:05:23.551846: Module Online Sequence
04/16/2010 05:05:56.520856: Module Online
04/16/2010 05:29:38.526605: Deleting route to FEX
04/16/2010 05:29:38.536055: Module disconnected
04/16/2010 05:29:38.537686: Offlining Module
04/16/2010 05:29:38.538260: Module Offline Sequence
04/16/2010 05:29:53.646254: Module Offline
04/16/2010 05:29:54.178401: Deleting route to FEX
04/16/2010 05:29:54.184092: Module disconnected
04/16/2010 05:29:54.186230: Offlining Module
04/16/2010 05:31:13.784346: Module register received
04/16/2010 05:31:13.785410: Registration response sent
04/16/2010 05:31:15.676906: Module Online Sequence
04/16/2010 05:31:50.492714: Module Online
04/16/2010 05:32:18.388033: Deleting route to FEX
04/16/2010 05:32:18.393579: Module disconnected
04/16/2010 05:32:18.394845: Offlining Module
04/16/2010 05:32:18.395412: Module Offline Sequence
04/16/2010 05:32:30.336790: Module Offline
04/16/2010 05:32:30.683558: Deleting route to FEX
04/16/2010 05:32:30.690042: Module disconnected
04/16/2010 05:32:30.692101: Offlining Module
04/16/2010 05:33:42.781911: Module register received
04/16/2010 05:33:42.783432: Registration response sent
04/16/2010 05:33:52.542824: Module Online Sequence
04/16/2010 05:34:33.483417: Module Online
<---output truncated--->
switch#

```

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Related Commands

Command	Description
fex	Creates a Fabric Extender and enters fabric extender configuration mode.
show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show fex transceiver

To display information about the transceiver connecting a Fabric Extender to the Cisco Nexus 5000 Series switch, use the **show fex transceiver** command.

show fex chassis_ID transceiver [calibration | detail]

Syntax Description	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
	calibration	(Optional) Displays detailed calibration information about the transceiver.
	detail	(Optional) Displays detailed diagnostic information about the transceiver.

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples This example shows how to display information about the transceiver that connects a Fabric Extender to the Cisco Nexus 5000 Series switch:

```
switch# show fex 101 transceiver
```

```
Fex Uplink: 1
Fabric Port: Ethernet3/5
  sfp is present
  name is CISCO-AVAGO
  part number is SFBR-7700SDZ
  revision is B4
  serial number is AGD113921ZR
  nominal bitrate is 10300 Mbits/sec
  Link length supported for 50/125mm fiber is 82 m(s)
  Link length supported for 62.5/125mm fiber is 26 m(s)
  cisco id is --
  cisco extended id number is 4
```

```
Fex Uplink: 2
Fabric Port: Ethernet3/6
  sfp is present
  name is CISCO-AVAGO
  part number is SFBR-7700SDZ
  revision is B4
  serial number is AGD113422LS
  nominal bitrate is 10300 Mbits/sec
  Link length supported for 50/125mm fiber is 82 m(s)
  Link length supported for 62.5/125mm fiber is 26 m(s)
  cisco id is --
  cisco extended id number is 4
```

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```
Fex Uplink: 3
Fabric Port: --
    sfp is present
    name is CISCO-AVAGO
    part number is SFBR-7700SDZ
    revision is B4
    serial number is AGD11392258
    nominal bitrate is 10300 MBits/sec
    Link length supported for 50/125mm fiber is 82 m(s)
    Link length supported for 62.5/125mm fiber is 26 m(s)
--More--
switch#
```

Related Commands

Command	Description
fex	Creates a Fabric Extender and enters fabric extender configuration mode.

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show fex version

To display the version information about a Fabric Extender, use the **show fex version** command.

show fex chassis_ID version

Syntax Description	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
--------------------	-------------------	--

Command Default	None
-----------------	------

Command Modes	EXEC mode
---------------	-----------

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples This example shows how to display the version information about a Fabric Extender:

```
switch# show fex 101 version
Software
  Bootloader version:      0.2
  System boot mode:       primary
  System image version:    4.2(1)N1(1) [build 4.2(1)N1(0.309)]

Hardware
  Module:                  Fabric Extender 48x1GE + 4x10G Module
  CPU:                     Motorola, e300c4
  Serial number:           JAF11223333
  Bootflash:               locked

Kernel uptime is 0 day(s), 3 hour(s), 53 minutes(s), 43 second(s)

Last reset at Wed Mar 31 06:28:41 2010
  Reason: Kernel Reboot
  Service: Reload new image
switch#
```

Related Commands	Command	Description
	fex	Creates a Fabric Extender and enters fabric extender configuration mode.

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show interface fex-fabric

To display all Fabric Extender fabric interfaces, use the **show interface fex-fabric** command.

show interface fex-fabric

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

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples	This example shows how to display all Fabric Extender fabric interfaces:
-----------------	--

```
switch# show interface fex-fabric
Fabric      Fabric      Fex      FEX
Fex  Port      Port State      Uplink      Model      Serial
-----
105   Eth1/5      Active    5      N2K-C2232P-10GE  JAF1331AKBM
105   Eth1/6      Active    6      N2K-C2232P-10GE  JAF1331AKBM
105   Eth1/7      Active    8      N2K-C2232P-10GE  JAF1331AKBM
105   Eth1/8      Active    7      N2K-C2232P-10GE  JAF1331AKBM
102   Eth1/17     Active    1      N5K-C5110T-BF-1GE JAF1241BLHQ
102   Eth1/18     Configured 0
102   Eth1/19     Active    3      N5K-C5110T-BF-1GE JAF1241BLHQ
102   Eth1/20     Active    4      N5K-C5110T-BF-1GE JAF1241BLHQ
100   Eth3/3      Active    1      N5K-C5110T-BF-1GE JAF1237ABSE
100   Eth3/4      Active    2      N5K-C5110T-BF-1GE JAF1237ABSE
101   Eth3/5      Active    1      N2K-C2248TP-1GE   JAF11223333
101   Eth3/6      Active    2      N2K-C2248TP-1GE   JAF11223333
switch#
```

Related Commands	Command	Description
	show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show interface fex-intf

To display the host interfaces pinned to a fabric interface, use the **show interface fex-intf** command.

show interface *interface* **fex-intf**

Syntax Description	<i>interface</i>	Ethernet or EtherChannel interface.
---------------------------	------------------	-------------------------------------

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples	This example shows how to display the host interfaces pinned to an Ethernet fabric interface on the parent switch: switch# show interface ethernet 1/1 fex-intf
	This example shows how to display the host interfaces pinned to an EtherChannel fabric interface on the parent switch: switch# show interface port-channel 1 fex-intf

Related Commands	Command	Description
	show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show interface transceiver fex-fabric

To display information about all transceivers connected to fabric interfaces, use the **show interface transceiver fex-fabric** command.

show interface transceiver fex-fabric [**calibration** | **detail**]

Syntax Description	calibration	(Optional) Displays detailed calibration information about the transceiver.
	detail	(Optional) Displays detailed diagnostic information about the transceiver.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	4.0(1a)N2(1)	This command was introduced.

Examples This example shows how to display information about all transceivers that connect to fabric interfaces:

```
switch# show interface transceiver fex-fabric
Ethernet1/5
  sfp is present
  name is CISCO-MOLEX INC
  part number is 74752-9025
  revision is A
  serial number is MOC12302468
  nominal bitrate is 12000 Mbits/sec
  Link length supported for 50/125mm fiber is 0 m(s)
  Link length supported for 62.5/125mm fiber is 0 m(s)
  cisco id is --
  cisco extended id number is 4

Ethernet1/6
  sfp is present
  name is CISCO-MOLEX INC
  part number is 74752-9025
  revision is A
  serial number is MOC12260214
  nominal bitrate is 12000 Mbits/sec
  Link length supported for 50/125mm fiber is 0 m(s)
  Link length supported for 62.5/125mm fiber is 0 m(s)
  cisco id is --
  cisco extended id number is 4

Ethernet1/7
  sfp is present
  name is CISCO-MOLEX INC
  part number is 74752-9025
  revision is A
  serial number is MOC12301888
```


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```
nominal bitrate is 12000 Mbits/sec
Link length supported for 50/125mm fiber is 0 m(s)
Link length supported for 62.5/125mm fiber is 0 m(s)
cisco id is --
cisco extended id number is 4

Ethernet1/8
  sfp is present
  name is CISCO-MOLEX INC
--More--
switch#
```

Related Commands

Command	Description
show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show inventory fex

To display the physical inventory of a Fabric Extender, such as the name, description, and volume ID, use the **show inventory fex** command.

show inventory fex *chassis_ID*

Syntax Description	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
--------------------	-------------------	--

Command Default	None
-----------------	------

Command Modes	EXEC mode
---------------	-----------

Command History	Release	Modification
	4.2(1)N1(1)	This command was introduced.

Examples This example shows how to display the physical inventory of a specific Fabric Extender chassis:

```
switch# show inventory fex 100
NAME: "FEX 100 CHASSIS", DESCR: "N5K-C5110T-BF-1GE CHASSIS"
PID: N5K-C5110T-BF-1GE , VID: V01 , SN: JAF1237ABSE

NAME: "FEX 100 Module 1", DESCR: "Fabric Extender Module: 48x1GE, 4X10GE Supervisor"
PID: N5K-C5110T-BF-1GE , VID: V00 , SN: JAF1237ABSE

NAME: "FEX 100 Fan 1", DESCR: "Fabric Extender Fan module"
PID: N2K-C2148-FAN , VID: N/A , SN: N/A

NAME: "FEX 100 Power Supply 1", DESCR: "Fabric Extender AC power supply"
PID: N5K-PAC-200W , VID: 00V0, SN: PAC12473L17

switch#
```

Related Commands	Command	Description
	show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show locator-led

To display the status of the locator LED in a Fabric Extender, use the **show locator-led** command.

show locator-led status

Syntax Description	status	Displays the status of the locator LED in a Fabric Extender module.
--------------------	--------	---

Command Default	None
-----------------	------

Command Modes	EXEC mode
---------------	-----------

Command History	Release	Modification
	4.2(1)N1(1)	This command was introduced.

Usage Guidelines	Use the locator-led command to toggle the locator LED of a Fabric Extender.
------------------	--

Examples	This example shows how to display the modules that have the locator LED set to off or on:
----------	---

```
switch# show locator-led status
Component          Locator LED Status
-----
FEX 100             off
FEX 101             off
FEX 102             off
FEX 103             off
FEX 105             off
switch#
```

Related Commands	Command	Description
	locator-led	Turns on the locator LED of a Fabric Extender chassis.
	show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show module fex

To display the module information for a Fabric Extender, use the **show module fex** command.

show module fex [**all** | *chassis_ID*]

Syntax Description	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
	all	Displays information about all Fabric Extender modules.

Command Default None

Command Modes EXEC mode

Command History	Release	Modification
	4.2(1)N1(1)	This command was introduced.

Examples

This example shows how to display the module information of Fabric Extenders:

```
switch# show module fex all
FEX Mod Ports Card Type                               Model                               Status.
-----
100 1    48    Fabric Extender 48x1GE Module                       N5K-C5110T-BF-1GE  present
101 1    48    Fabric Extender 48x1GE + 4x10G Mod N2K-C2248TP-1GE    present
102 1    48    Fabric Extender 48x1GE Module                       N5K-C5110T-BF-1GE  present
105 1    32    Fabric Extender 32x10GE + 8x10G Mo N2K-C2232P-10GE    present

FEX Mod Sw                Hw      World-Wide-Name(s) (WWN)
-----
100 1    4.2(1)N1(1)             0.0     --
101 1    4.2(1)N1(1)             0.103   --
102 1    4.2(1)N1(1)             0.2     --
105 1    4.2(1)N1(1)             1.0     --

FEX Mod  MAC-Address(es)                               Serial-Num
-----
100 1    000d.ecb1.1300 to 000d.ecb1.132f                       JAF1237ABSE
101 1    0022.bdd1.3cc0 to 0022.bdd1.3cef                       JAF11223333
102 1    000d.ecb1.25c0 to 000d.ecb1.25ef                       JAF1241BLHQ
105 1    000d.ecca.6f40 to 000d.ecca.6f5f                       JAF1331AKBM
switch#
```

This commands shows how to display the module information for a specific Fabric Extender:

```
switch# show module fex 100
FEX Mod Ports Card Type                               Model                               Status.
-----
100 1    48    Fabric Extender 48x1GE Module                       N5K-C5110T-BF-1GE  present

FEX Mod Sw                Hw      World-Wide-Name(s) (WWN)
-----
```

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```
100 1    4.2(1)N1(1)    0.0    --

FEX Mod  MAC-Address(es)                      Serial-Num
--- ---  -
100 1    000d.ecb1.1300 to 000d.ecb1.132f      JAF1237ABSE
switch#
```

Related Commands

Command	Description
show fex	Displays all configured Fabric Extender chassis connected to the switch.

Send comments to nexus5k-docfeedback@cisco.com

show provision

To display information about provision, use the **show provision** command.

show provision failed-config *slot-number*

Syntax Description	failed-config	Displays the configuration that failed to be applied to the slot.
	<i>slot-number</i>	Slot number in the chassis. The range is from 2 to 199.

Command Default	None
-----------------	------

Command Modes	EXEC mode Configuration synchronization mode
---------------	---

Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.

Examples	This example shows how to display the preprovisioning configuration that failed to be applied to slot 2: <pre>switch# show provision failed-config 2 Config has not been applied yet for this slot.</pre> switch#
----------	--

Related Commands	Command	Description
	provision	Preprovisions a module in a slot.
	show running-config exclude-provision	Displays the running configuration excluding the preprovisioned features.
	slot	Enables a slot for preprovisioning a module.

Send comments to nexus5k-docfeedback@cisco.com

show queuing interface

To display the queuing information of interfaces, use the **show queuing interface** command.

show queuing interface [**ethernet** *slot-chassis-no/port-slot-no/port-no*]

Syntax Description	ethernet	(Optional) Specifies that queuing information be displayed for an Ethernet interface or a Fabric Extender.
	<i>slot-chassis-no</i>	Slot number of the Ethernet interface or chassis ID of the Fabric Extender. The range is from 1 to 255.
	<i>port-slot-no</i>	Port number of the Ethernet interface or the remote slot ID of the Fabric Extender. The range is from 1 to 128.
	<i>port-no</i>	Port number of the Fabric Extender. The range is from 1 to 48.

Command Default Displays the queuing information for all interfaces.

Command Modes EXEC mode

Command History	Release	Modification
	4.1(3)N1(1)	This command was introduced.

Examples This example shows how to display the queuing information, including the buffer threshold and queue limit values, of a specified interface on a switch that runs Cisco NX-OS 4.2(1)N2(1):

```
switch# show queuing interface eth101/1/1
Ethernet101/1/1 queuing information:
  Input buffer allocation:
  Qos-group: 0 3 4 (shared)
  frh: 3
  drop-type: drop
  cos: 0 2 3 4 6 7
  xon      xoff      buffer-size
  -----+-----+-----
  11520    21760    44800

  Qos-group: 2
  frh: 2
  drop-type: no-drop
  cos: 1 5
  xon      xoff      buffer-size
  -----+-----+-----
  12800    23040    46080

  Queueing:
  queue    qos-group    cos          priority    bandwidth    mtu
  -----+-----+-----+-----+-----+-----
  3         0 3 4         0 2 3 4 6    WRR         99          9280
  2         2         1 5          WRR         1           9280
```

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Buffer threshold: 163840 bytes

Queue limit: 327680 bytes

Queue Statistics:

queue rx

-----+-----

3 38557

2 0

Port Statistics:

tx queue drop

26374

Priority-flow-control enabled: no

Flow-control status:

cos qos-group rx pause tx pause masked rx pause

-----+-----+-----+-----+-----

0 0 xon xon xon

1 2 xon xon xon

2 3 xon xon xon

3 0 xon xon xon

4 3 xon xon xon

5 2 xon xon xon

6 0 xon xon xon

7 n/a xon xon xon

switch#

This example shows how to display the queuing information, including the buffer threshold and queue limit values, of a specified interface on a switch that runs Cisco NX-OS 5.0(2)N2(1):

switch# **show queuing interface ethernet 1/4**

Interface Ethernet1/4 TX Queuing

qos-group sched-type oper-bandwidth

0 WRR 50

1 WRR 50

5 priority 0

Interface Ethernet1/4 RX Queuing

qos-group 0:

q-size: 102400, MTU: 1538

drop-type: drop, xon: 0, xoff: 640

Statistics:

Pkts received over the port : 1

Ucast pkts sent to the cross-bar : 0

Mcast pkts sent to the cross-bar : 1

Ucast pkts received from the cross-bar : 1577841

Pkts sent to the port : 1577841

Pkts discarded on ingress : 0

Per-priority-pause status : Rx (Inactive), Tx (Inactive)

qos-group 1:

q-size: 76800, MTU: 2240

drop-type: no-drop, xon: 128, xoff: 240

Statistics:

Pkts received over the port : 0

Ucast pkts sent to the cross-bar : 0

Mcast pkts sent to the cross-bar : 0

Ucast pkts received from the cross-bar : 0

Pkts sent to the port : 0

Pkts discarded on ingress : 0

Per-priority-pause status : Rx (Inactive), Tx (Inactive)

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```

qos-group 5:
  q-size: 122880, MTU: 1538
  drop-type: drop, xon: 0, xoff: 768
  Statistics:
    Pkts received over the port          : 0
    Ucast pkts sent to the cross-bar     : 0
    Mcast pkts sent to the cross-bar     : 0
    Ucast pkts received from the cross-bar : 0
    Pkts sent to the port                : 1
    Pkts discarded on ingress            : 0
    Per-priority-pause status            : Rx (Inactive), Tx (Inactive)
switch#

```

Table 1 describes the significant fields shown in the display.

Table 1 *show queuing interface Field Descriptions*

Field	Description
Ethernet ...	Ethernet interface information.
qoS-group	Information about QoS groups configured on the switch.
sched-type	Type of schedule.
WRR	Weighted round robin(WRR). Queue eight for scheduling.
Priority	Priority of the queue.
q-size	Queue size.
drop-type	Queue drop type can be either drop or no-drop.
MTU	Maximum transmit unit (MTU) for the queue.
Xon	Transmission on at this threshold.
Xoff	Transmission off at this threshold.
Buffer threshold	Buffer threshold value for the interface.
Queue limit	Queue limit value for the interface.

Related Commands

Command	Description
hardware buffer-threshold	Configures the hardware buffer threshold.
hardware queue-limit	Configures the hardware queue limit.
show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show running-config exclude-provision

To display the running configuration without the configuration for offline preprovisioned interfaces, use the **show running-config exclude-provision** command.

show running-config exclude-provision

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

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.

Examples	This example shows how to display the running configuration without the offline preprovisioned interfaces:
-----------------	--

```
switch# show running-config exclude-provision

!Command: show running-config exclude-provision
!Time: Mon Sep  6 08:10:16 2010

version 5.0(2)N1(1)
feature fcoe

feature telnet
feature tacacs+
cfs ipv4 distribute
cfs eth distribute
feature udd
feature interface-vlan
feature lacp
feature vpc
feature lldp
feature vtp
feature fex

username admin password 5 $1$wmFN7Wly$/pjqx1DfAkCCAg/KyxbUz/  role network-admin
username install password 5 !  role network-admin
username praveena password 5 !  role network-operator
no password strength-check
ip domain-lookup
ip domain-lookup
tacacs-server host 192.168.131.54 key 7 "wawy1234"
tacacs-server host 192.168.131.37
tacacs-server host 192.168.131.37 test username user1
aaa group server tacacs+ t1
    server 192.168.131.54
```

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```
aaa group server tacacs+ tacacs
radius-server host 192.168.128.5 key 7 "KkwyCet" authentication accounting
aaa group server radius r1
    server 192.168.128.5
hostname BEND-2
vlan dot1Q tag native
logging event link-status default
logging event trunk-status default
no service recover-errdisable
errdisable recovery interval 600
no errdisable detect cause link-flap
errdisable recovery cause link-flap
errdisable recovery cause udd
--More--
<--output truncated-->
switch#
```

Related Commands

Command	Description
copy running-config startup-config	Copies the running configuration to the startup configuration.
provision	Preprovisions a module in a slot.
show provision	Displays the preprovisioned module information.
show startup-config exclude-provision	Displays the startup configuration without the preprovisioning information for offline interfaces.
slot	Configures a chassis slot for a predefined module.

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show running-config fex

To display the running configuration for Fabric Extenders (FEXs), use the **show running-config fex** command.

show running-config fex [all]

Syntax Description	all (Optional) Displays FEX information including default settings.				
Command Default	None				
Command Modes	EXEC mode				
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>4.2(1)N2(1)</td><td>This command was introduced.</td></tr> </table>	Release	Modification	4.2(1)N2(1)	This command was introduced.
Release	Modification				
4.2(1)N2(1)	This command was introduced.				

Examples

This example shows how to display information on the running FEX configuration, including the buffer threshold value and queue limit:

```
switch# show running-config fex

!Command: show running-config fex
!Time: Mon Jul 19 07:56:21 2010

version 4.2(1)N2(1)
feature fex

fex 100
  pinning max-links 1
  description "RedwoodFex100"
fex 101
  pinning max-links 1
  description "FEX0101"
fex 150
  pinning max-links 1
  description "PortolaFex150"
fex 151
  pinning max-links 1
  description "PortolaFex151"
fex 160
  pinning max-links 1
  description "FEX0160"
fex 198
  hardware N2232P queue-limit 50000
  pinning max-links 1
  description "WoodsideFex198"
fex 199
  hardware N2232P queue-limit 20000
  no hardware N2248T queue-limit
  hardware N2148T buffer-threshold 163840
```

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```
pinning max-links 1
description "WoodsideFex199"

interface port-channel100
  fex associate 100

interface port-channel150
--More--
switch#
```

Related Commands

Command	Description
hardware buffer-threshold	Configures the hardware buffer threshold.
hardware queue-limit	Configures the hardware queue limit.
show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show sprom fex

To display information about the SPROM, use the **show sprom fex** command.

show sprom fex {**all** | *chassis_ID* {**all** | **backplane** | **powersupply** *module_no*}}

Syntax Description		
	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
	all	Displays all SPROM content for a specific Fabric Extender.
	backplane	Displays the backplane SPROM content for a specific Fabric Extender.
	powersupply	Displays the power supply SPROM content for a specific Fabric Extender.
	<i>module_no</i>	Power supply module number for a specific Fabric Extender. The range is from 1 to 2.

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	4.2(1)N1(1)	This command was introduced.

Examples This example shows how to display all SPROM content for a specific Fabric Extender:

```
switch# show sprom fex 100 all
DISPLAY FEX 100 SUP sprom contents
Common block:
Block Signature : 0xabab
Block Version   : 3
Block Length    : 160
Block Checksum  : 0x18c9
EEPROM Size     : 65535
Block Count     : 3
FRU Major Type  : 0x6003
FRU Minor Type  : 0x0
OEM String      : Cisco Systems, Inc.
Product Number  : N5K-C5110T-BF-1GE
Serial Number   : JAF1237ABSE
Part Number     : 73-12009-02
Part Revision   : 00
Mfg Deviation   : 0
H/W Version     : 0.0
Mfg Bits        : 0
Engineer Use    : 0
snmpOID         : 9.12.3.1.9.72.5.0
Power Consump   : -200
RMA Code        : 0-0-0-0
CLEI Code       : 000000000000
VID             : V00
Supervisor Module specific block:
```

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```
Block Signature : 0x6002
Block Version   : 2
Block Length    : 103
Block Checksum  : 0x2648
Feature Bits    : 0x0
HW Changes Bits : 0x2
Card Index      : 11011
MAC Addresses   : 00-00-00-00-00-00
Number of MACs  : 0
Number of EPLD  : 0
Port Type-Num   : 2-52
Sensor #1       : 85,75
Sensor #2       : 100,90
Sensor #3       : 100,90
Sensor #4       : 100,90
Sensor #5       : 100,90
Sensor #6       : 100,90
Sensor #7       : 100,90
Sensor #8       : 100,90
Max Connector Power: 1000
Cooling Requirement: 300
Ambient Temperature: 40
```

DISPLAY FEX 100 backplane sprom contents:

Common block:

```
Block Signature : 0xabab
Block Version   : 3
Block Length    : 160
Block Checksum  : 0x195d
EEPROM Size     : 65535
Block Count     : 5
FRU Major Type  : 0x6001
FRU Minor Type  : 0x0
OEM String      : Cisco Systems, Inc.
Product Number  : N5K-C5110T-BF-1GE
Serial Number   : JAF1237ABSE
Part Number     : 73-12009-02
Part Revision   : 00
Mfg Deviation   : 0
H/W Version     : 0.0
Mfg Bits        : 0
Engineer Use    : 0
snmpOID         : 9.12.3.1.3.719.0.0
Power Consump   : -800
RMA Code        : 0-0-0-0
CLEI Code       : 00000000
VID             : V01
```

Chassis specific block:

```
Block Signature : 0x6001
Block Version   : 3
Block Length    : 39
Block Checksum  : 0x28a
Feature Bits    : 0x0
HW Changes Bits : 0x2
Stackmib OID    : 0
MAC Addresses   : 00-0d-ec-b1-13-00
Number of MACs  : 64
OEM Enterprise  : 0
OEM MIB Offset  : 0
MAX Connector Power: 0
```

WWN software-module specific block:

```
Block Signature : 0x6005
Block Version   : 1
Block Length    : 0
```

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```

Block Checksum : 0x66
wwn usage bits:
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00
License software-module specific block:
Block Signature : 0x6006
Block Version : 1
Block Length : 16
Block Checksum : 0x77
lic usage bits:
00 00 00 00 00 00 00 00

DISPLAY FEX 100 power-supply 1 sprom contents:
Common block:
Block Signature : 0xabab
Block Version : 3
Block Length : 124
Block Checksum : 0x15fc
EEPROM Size : 124
Block Count : 1
FRU Major Type : 0xab01
FRU Minor Type : 0x1
OEM String : Cisco Systems, Inc.
Product Number : N5K-PAC-200W
Serial Number : PAC12473L17
Part Number : 341-0335-01
Part Revision : 01
CLEI Code : COUPADSBA
VID : 00V0
snmpOID : 0.0.0.0.0.0.0.0
H/W Version : 0.1
Current : 1667
RMA Code : 0-0-0-0
switch#

```


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This command shows how to display the power supply SPROM contents for a specific Fabric Extender:

```
switch# show sprom fex 100 powersupply 1
DISPLAY FEX 100 power-supply 1 sprom contents:
Common block:
  Block Signature : 0xabab
  Block Version   : 3
  Block Length    : 124
  Block Checksum  : 0x15fc
  EEPROM Size     : 124
  Block Count     : 1
  FRU Major Type  : 0xab01
  FRU Minor Type  : 0x1
  OEM String      : Cisco Systems, Inc.
  Product Number  : N5K-PAC-200W
  Serial Number   : PAC12473L17
  Part Number     : 341-0335-01
  Part Revision   : 01
  CLEI Code       : COUPADSBAA
  VID             : 00V0
  snmpOID         : 0.0.0.0.0.0.0.0
  H/W Version     : 0.1
  Current         : 1667
  RMA Code        : 0-0-0-0
switch#
```

Related Commands

Command	Description
show fex	Displays all configured Fabric Extender chassis connected to the switch.

[Send comments to nexus5k-docfeedback@cisco.com](mailto:nexus5k-docfeedback@cisco.com)

show startup-config exclude-provision

To display the startup configuration that excludes the configuration for offline preprovisioned interfaces, use the **show startup-config exclude-provision** command.

show startup-config exclude-provision

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

Command Default	None
------------------------	------

Command Modes	EXEC mode
----------------------	-----------

Command History	Release	Modification
	5.0(2)N1(1)	This command was introduced.

Examples	This example shows how to display the startup configuration without the offline preprovisioned interfaces: <pre>switch# show startup-config exclude-provision</pre>
-----------------	--

Related Commands	Command	Description
	provision	Preprovisions a module in a slot.
	show provision	Displays the preprovisioned module information.
	show running-config exclude-provision	Displays the running configuration excluding the preprovisioned features.
	slot	Configures a chassis slot for a predefined module.

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show system reset-reason fex

To display the reason for the last reset of the Fabric Extender, use the **show system reset-reason fex** command.

show system reset-reason fex *chassis_ID*

Syntax Description	<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
--------------------	-------------------	--

Command Default	None
-----------------	------

Command Modes	EXEC mode
---------------	-----------

Command History	Release	Modification
	4.2(1)N1(1)	This command was introduced.

Examples This example shows how to display the last reset reason for a specific Fabric Extender:

```
switch# show system reset-reason fex 100
----- reset reason for FEX 100 ----

1) At 430815 usecs after Fri Apr 16 04:27:04 2010
   Reset Reason: Reset Requested by CLI command reload (9)
   Service (Additional Info): Reload requested by supervisor
   Image Version: 4.2(1)N1(1)

2) At 505550 usecs after Fri Apr 16 03:39:50 2010
   Reset Reason: Reset due to upgrade (88)
   Service (Additional Info): Reset due to upgrade
   Image Version: 4.2(1u)N1(1u)

3) At 607267 usecs after Fri Apr 16 02:50:10 2010
   Reset Reason: Reset due to upgrade (88)
   Service (Additional Info): Reset due to upgrade
   Image Version: 4.2(1)N1(1)

4) At 857790 usecs after Fri Apr 16 02:00:22 2010
   Reset Reason: Reset due to upgrade (88)
   Service (Additional Info): Reset due to upgrade
   Image Version: 4.2(1u)N1(1u)

switch#
```

Related Commands	Command	Description
	show fex	Displays all configured Fabric Extender chassis connected to the switch.

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show version fex

To display the software version information about a Fabric Extender, use the **show version fex** command.

show version fex *chassis_ID*

Syntax Description

<i>chassis_ID</i>	Fabric Extender chassis ID. The chassis ID range is from 100 to 199.
-------------------	--

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
4.2(1)N1(1)	This command was introduced.

Examples

This example shows how to display the software version of a Fabric Extender:

```
switch# show version fex 100
Software
  Bootloader version:      1.12
  System boot mode:       primary
  System image version:    4.2(1)N2(1) [build 4.2(1)N2(1)]

Hardware
  Module:                  Fabric Extender 48x1GE Module
  CPU:                     Motorola, e300c1
  Serial number:           JAF1302ABDP
  Bootflash:               locked

Kernel uptime is 0 day(s), 9 hour(s), 9 minutes(s), 16 second(s)

Last reset at Fri Jul 02 04:27:04 2010
  Reason: Reset Requested by CLI command reload
  Service: Reload requested by supervisor
switch#
```

Related Commands

Command	Description
show fex	Displays all configured Fabric Extender chassis connected to the switch.