



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 6000 switch.

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
	6.0(2)N1(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#
```

Related Commands

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

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
	6.0(2)N1(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

```

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.

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
	6.0(2)N1(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
-----
111          FEX111          Online          N2K-C2248TP-1GE SSI15450FZS
---          -----          ---            N2K-C2232PP-10GE SSI15500F4Q
---          -----          ---            N2K-C2232PP-10GE SSI1552044S
---          -----          ---            N2K-C2248TP-1GE SSI154800HHswitch#
```

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

```
switch# show fex 111
FEX: 111 Description: FEX111 state: Online
FEX version: 6.0(2)N1(1) [Switch version: 6.0(2)N1(1)]
Extender Serial: SSI15450FZS
Extender Model: N2K-C2248TP-1GE, Part No: 73-13232-01
Pinning-mode: static Max-links: 1
Fabric port for control traffic: Eth1/2/3
FCoE Admin: false
FCoE Oper: true
FCoE FEX AA Configured: false
Fabric interface state:
  Po113 - Interface Up. State: Active
  Eth1/2/3 - Interface Up. State: Active
  Eth1/2/4 - Interface Up. State: Active
  Eth1/3/3 - Interface Down. State: Configured
  Eth1/4/4 - Interface Down. State: Configuredswitch#
```

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

```

switch# show fex 111 detail
FEX: 111 Description: FEX111    state: Online
  FEX version: 6.0(2)N1(1) [Switch version: 6.0(2)N1(1)]
  FEX Interim version: 6.0(2)N1(0.365)
  Switch Interim version: 6.0(2)N1(0.365)
  Extender Serial: SSI15450FZS
  Extender Model: N2K-C2248TP-1GE, Part No: 73-13232-01
  Card Id: 99, Mac Addr: a4:56:30:0b:01:42, 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: Eth1/2/3
  FCoE Admin: false
  FCoE Oper: true
  FCoE FEX AA Configured: false
  Fabric interface state:
    Pol13 - Interface Up. State: Active
    Eth1/2/3 - Interface Up. State: Active
    Eth1/2/4 - Interface Up. State: Active
    Eth1/3/3 - Interface Down. State: Configured
    Eth1/4/4 - Interface Down. State: Configured
  Fex Port      State  Fabric Port
    Eth111/1/1    Up    Po113
    Eth111/1/2    Up    Po113
    Eth111/1/3    Down   None
    Eth111/1/4    Down   None
    Eth111/1/5    Down   None
    Eth111/1/6    Down   Po113
    Eth111/1/7    Down   Po113
    Eth111/1/8    Down   Po113
    Eth111/1/9    Down   Po113
    Eth111/1/10   Down   Po113
    Eth111/1/11   Down   Po113
    Eth111/1/12   Down   Po113
    Eth111/1/13   Down   Po113
    Eth111/1/14   Down   Po113
    Eth111/1/15   Down   Po113
    Eth111/1/16   Down   Po113
    Eth111/1/17   Down   Po113
    Eth111/1/18   Down   Po113
    Eth111/1/19   Down   Po113
    Eth111/1/20   Down   Po113
    Eth111/1/21   Down   Po113
    Eth111/1/22   Down   Po113
    Eth111/1/23   Down   Po113
    Eth111/1/24   Down   Po113
    Eth111/1/25   Down   Po113
    Eth111/1/26   Down   Po113
    Eth111/1/27   Down   Po113
    Eth111/1/28   Down   Po113
    Eth111/1/29   Down   Po113
    Eth111/1/30   Down   Po113
    Eth111/1/31   Down   Po113
    Eth111/1/32   Down   Po113
    Eth111/1/33   Down   Po113
    Eth111/1/34   Down   Po113
    Eth111/1/35   Down   Po113
    Eth111/1/36   Down   Po113
    Eth111/1/37   Down   Po113
    Eth111/1/38   Down   Po113
    Eth111/1/39   Down   Po113
    Eth111/1/40   Down   Po113
    Eth111/1/41   Down   Po113
    Eth111/1/42   Down   Po113

```

```
Eth111/1/43 Down Po113
Eth111/1/44 Down Po113
Eth111/1/45 Down Po113
Eth111/1/46 Down Po113
Eth111/1/47 Down Po113
Eth111/1/48 Down Po113
```

Logs:

```
01/01/2013 22:01:14.276559: Module register received
01/01/2013 22:01:14.279440: Registration response sent
01/01/2013 22:01:14.452868: create module inserted event.
01/01/2013 22:01:14.453798: Module Online Sequence
01/01/2013 22:01:19.223358: Module Online
switch#
```

Related Commands

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

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
	6.0(2)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: 111 Description: FEX111 state: Online
  FEX version: 6.0(2)N1(1) [Switch version: 6.0(2)N1(1)]
  FEX Interim version: 6.0(2)N1(0.365)
  Switch Interim version: 6.0(2)N1(0.365)
  Extender Serial: SSI15450FZS
  Extender Model: N2K-C2248TP-1GE, Part No: 73-13232-01
  Card Id: 99, Mac Addr: a4:56:30:0b:01:42, 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: Eth1/2/3
FCoE Admin: false
FCoE Oper: true
FCoE FEX AA Configured: false
Fabric interface state:
  Pol13 - Interface Up. State: Active
  Eth1/2/3 - Interface Up. State: Active
  Eth1/2/4 - Interface Up. State: Active
  Eth1/3/3 - Interface Down. State: Configured
  Eth1/4/4 - Interface Down. State: Configured
Fex Port      State Fabric Port
  Eth111/1/1   Up      Pol13
  Eth111/1/2   Up      Pol13
  Eth111/1/3   Down    None
  Eth111/1/4   Down    None
  Eth111/1/5   Down    None
  Eth111/1/6   Up      Pol13
  Eth111/1/7   Up      Pol13
  Eth111/1/8   Up      Pol13
  Eth111/1/9   Up      Pol13
  Eth111/1/10  Up      Pol13
  Eth111/1/11  Up      Pol13
```

```

Eth111/1/12    Up    Po113
Eth111/1/13    Up    Po113
Eth111/1/14    Up    Po113
Eth111/1/15    Up    Po113
Eth111/1/16    Up    Po113
Eth111/1/17    Up    Po113
Eth111/1/18    Up    Po113
Eth111/1/19    Up    Po113
Eth111/1/20    Up    Po113
Eth111/1/21    Up    Po113
Eth111/1/22    Up    Po113
Eth111/1/23    Up    Po113
Eth111/1/24    Up    Po113
Eth111/1/25    Up    Po113
Eth111/1/26    Up    Po113
Eth111/1/27    Up    Po113
Eth111/1/28    Up    Po113
Eth111/1/29    Up    Po113
Eth111/1/30    Up    Po113
Eth111/1/31    Up    Po113
Eth111/1/32    Up    Po113
Eth111/1/33    Up    Po113
Eth111/1/34    Up    Po113
Eth111/1/35    Up    Po113
Eth111/1/36    Up    Po113
Eth111/1/37    Up    Po113
Eth111/1/38    Up    Po113
Eth111/1/39    Up    Po113
Eth111/1/40    Up    Po113
Eth111/1/41    Up    Po113
Eth111/1/42    Up    Po113
Eth111/1/43    Up    Po113
Eth111/1/44    Up    Po113
Eth111/1/45    Up    Po113
Eth111/1/46    Up    Po113
Eth111/1/47    Up    Po113
Eth111/1/48    Up    Po113

```

Logs:

```

01/01/2013 22:01:14.276559: Module register received
01/01/2013 22:01:14.279440: Registration response sent
01/01/2013 22:01:14.452868: create module inserted event.
01/01/2013 22:01:14.453798: Module Online Sequence
01/01/2013 22:01:19.223358: Module Online

```

switch#

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.

show fex transceiver

To display information about the transceiver connecting a Fabric Extender to the Cisco Nexus 6000 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
	6.0(2)N1(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 6000 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
```

show fex transceiver

```
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.

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
	6.0(2)N1(1)	This command was introduced.

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

```
switch# show fex 111 version
Software
  Bootloader version:      0.2
  System boot mode:       primary
  System image version:    6.0(2)N1(1) [build 6.0(2)N1(0.365)]

Hardware
  Module:                  Fabric Extender 48x1GE + 4x10G Module
  CPU:                     Motorola, e300c4
  Serial number:           FOC16021LR8
  Bootflash:               locked

Kernel uptime is 25 day(s), 3 hour(s), 8 minutes(s), 14 second(s)

Last reset at Sat Dec 15 02:11:58 2012
  Reason: Kernel Reboot
  Service: Reload new image
switch#
```

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

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
	6.0(2)N1(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.

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
	6.0(2)N1(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: <pre>switch# show interface ethernet 1/1 fex-intf</pre> This example shows how to display the host interfaces pinned to an EtherChannel fabric interface on the parent switch: <pre>switch# show interface port-channel 1 fex-intf</pre>	
Related Commands	Command	Description
	show fex	Displays all configured Fabric Extender chassis connected to the switch.

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
	6.0(2)N1(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
```



```

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.

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
	6.0(2)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.

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
	6.0(2)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: <pre>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#</pre>
-----------------	---

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.

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
	6.0(2)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)
-----
```

```

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.

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
	6.0(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> <pre>switch#</pre>
----------	--

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.

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
	6.0(2)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:

```
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
```

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:

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)


```

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.

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
	6.0(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 Jan 6 08:10:16 2013
```

```
version 6.0(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
```

```
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.

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>6.0(2)N1(1)</td><td>This command was introduced.</td></tr> </table>	Release	Modification	6.0(2)N1(1)	This command was introduced.
Release	Modification				
6.0(2)N1(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: Wed Jan 9 05:22:01 2013
```

```
version 6.0(2)N1(1)
feature fex
```

```
fex 111
  pinning max-links 1
  description "FEX111"
```

```
interface port-channel113
  fex associate 111
```

```
interface Ethernet1/2/3
  fex associate 111
```

```
interface Ethernet1/2/4
  fex associate 111
```

```
interface Ethernet1/3/3
  fex associate 111
```

```
interface Ethernet1/4/4
  fex associate 111
```

```
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.

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
	6.0(2)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:
```

```
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
```

```

Block Checksum : 0x66
wnn 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#

```


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.

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
	6.0(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.

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
	6.0(2)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 111
---- reset reason for FEX 111 ----

1) At 553612 usecs after Sat Dec 15 02:11:58 2012
   Reset Reason: Kernel Reboot (1)
   Service (Additional Info): Reload new image
   Image Version: 6.0(2)N1(1)

2) At 334319 usecs after Fri Dec 14 00:18:23 2012
   Reset Reason: Kernel Reboot (1)
   Service (Additional Info): Reload new image
   Image Version: 6.0(2)N1(1)

3) At 525416 usecs after Thu Dec 13 02:32:25 2012
   Reset Reason: Kernel Reboot (1)
   Service (Additional Info): Reload new image
   Image Version: 6.0(2)N1(1)

4) At 684084 usecs after Wed Dec 5 00:12:46 2012
   Reset Reason: Kernel Reboot (1)
   Service (Additional Info): Reload new image
   Image Version: 6.0(2)N1(1)

switch#
```

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

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
	6.0(2)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.