

Cisco SFP and Port Commands

Dec 2019

I purchased some SFPs to go in to a Cisco 10GB switch, and found they did not work in my switch. While investigating the fault, I found some useful commands to help me.

These commands seem to work on both Cisco IOS and the Nexus switches, albeit with some slightly different syntax.

Show Inventory

Show Inventory - [sh inventory](#) displays information about the switch hardware options:

```
NAME: "Chassis", DESCR: "Nexus 3548 Chassis"
PID: N3K-C3548P-10G      , VID: V02 , SN: F0C1822R0WS

NAME: "Module 1", DESCR: "48x10GE Supervisor"
PID: N3K-C3548P-10G      , VID: V02 , SN: F0C18220S2A

NAME: "Fan 1", DESCR: "Chassis fan module"
PID: NXA-FAN-30CFM-F      , VID: N/A , SN: N/A

NAME: "Fan 2", DESCR: "Chassis fan module"
PID: NXA-FAN-30CFM-F      , VID: N/A , SN: N/A

NAME: "Fan 3", DESCR: "Chassis fan module"
PID: NXA-FAN-30CFM-F      , VID: N/A , SN: N/A

NAME: "Fan 4", DESCR: "Chassis fan module"
PID: NXA-FAN-30CFM-F      , VID: N/A , SN: N/A

NAME: "Power supply 1", DESCR: "AC power supply"
PID: N2200-PAC-400W      , VID: V04 , SN: DTN1817P5GC

NAME: "Power supply 2", DESCR: "AC power supply"
PID: N2200-PAC-400W      , VID: V04 , SN: DTN1817P5Q1
```

Show Interface

Show Interface displays detailed information about each interface. If you only issue the command [sh interface](#) (Nexus) (or [sh interfaces](#) for IOS) then you get information regarding all interfaces.

You can get information on a specific interface by using the Cisco syntax [sh interface ethernet 1/1](#). In this example we get the information for port 1. Depending on your switch you might have to use [ethernet](#) or [GigabitEthernet](#) etc.

```
Ethernet1/1 is up
Dedicated Interface
Hardware: 100/1000/10000/40000 Ethernet, address: 88f0.31ca.b0c8 (bia 88f0.31c
a.b0c8)
MTU 1500 bytes, BW 100000000 Kbit, DLY 10 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
Port mode is access
full-duplex, 10 Gb/s, media type is 10G
Beacon is turned off
Input flow-control is off, output flow-control is off
Rate mode is dedicated
Switchport monitor is off
EtherType is 0x8100
Last link flapped 00:14:47
Last clearing of "show interface" counters never
5 interface resets
30 seconds input rate 24 bits/sec, 0 packets/sec
```

```
30 seconds output rate 296 bits/sec, 0 packets/sec
Load-Interval #2: 5 minute (300 seconds)
  input rate 192 bps, 0 pps; output rate 360 bps, 0 pps
RX
  0 unicast packets  115 multicast packets  34 broadcast packets
  149 input packets  22045 bytes
  0 jumbo packets  0 storm suppression bytes
  0 runts  0 giants  0 CRC  0 no buffer
  0 input error  0 short frame  0 overrun  0 underrun  0 ignored
  0 watchdog  0 bad etype drop  0 bad proto drop  0 if down drop
  0 input with dribble  0 input discard
  0 Rx pause
TX
  520 unicast packets  0 multicast packets  0 broadcast packets
  520 output packets  49544 bytes
  0 jumbo packets
  0 output errors  0 collision  0 deferred  0 late collision
  0 lost carrier  0 no carrier  0 babble  0 output discard
  0 Tx pause
```

Show Interface Status

Show Interface Status will display a summary of interfaces and their status. Use either [sh interface status](#) to show all interfaces, or [sh interface ethernet 1/1 status](#) to show specific interface.

Port	Name	Status	Vlan	Duplex	Speed	Type
Eth1/1	--	connected	1	full	10G	Unknown Typ
Eth1/2	--	sfpAbsent	1	full	10G	--
Eth1/3	--	sfpAbsent	1	full	10G	--
Eth1/4	--	sfpAbsent	1	full	10G	--

Show Interface Transceiver Details

Show Interface Transceiver Details gives more specific information about the interface in a port. This is useful for SFPs, not so useful for fixed ethernet interfaces. Use: [sh interface transceiver details](#) .

```
Ethernet1/1
transceiver is present
type is Unknown Type-(unknown)
name is Amphenol
part number is 603830001
revision is N
serial number is APF13350017WFF
nominal bitrate is 10300 MBit/sec
Link length supported for copper is 1 m
cisco id is --
cisco extended id number is 4

DOM is not supported
```

— [Alan Walker](#) 2019/12/02 11:30

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