



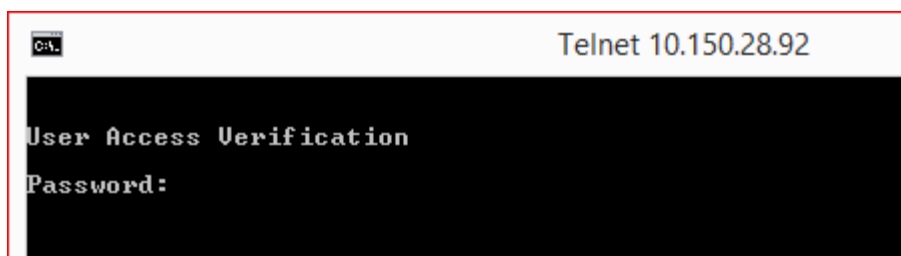
How to View the General SFP Information on a Cisco Systems ME-3400 Ethernet Access Switch using Telnet Commands in order to Read the Micro-OTDR Information

Based upon Cisco IOS Software Release 12.2(46)SE for Cisco Catalyst 750 Metro, Cisco ME 2400 and ME 3400 Series Ethernet Access Switches. ([Click here for Product Bulletin.](#))

To begin, plug your SFP into a port of the Cisco Systems ME-3400 Ethernet Access Switch.

All Bold Blue Italics are items specific to this example. That is, they show precisely how we (at OZC) have set up the ME-3400 Switch used for this demonstration. Other general commands are shown only as “quotes” or [brackets]. This example assumes the user is familiar with Telnet and knows how to configure the ME-3400 for access via Telnet.

1. Enter DOS Command Mode by typing “Run CMD”.
2. Type “telnet” and the IP address “xxx.xxx.xxx.xxx” of the Switch on your network. Check network access by pinging first if necessary. This example IP address is “**10.150.28.92**” [enter].



3. Enter the telnet password which had been configured for the specific equipment during the Switch setup.

Password: "4321" [enter].

```
CA. Telnet 10.150.28.92
User Access Verification
Password:
OZC>
```

You will now see a user prompt. In this example, "OZC>".

4. To read the SFP DDM details, type "show interfaces gigabitethernet0/x transceiver" [enter]. "x" is the actual interface port number you want to monitor. In this example it is Port Number 4.

```
CA. Telnet 10.150.28.92
OZC>show interfaces gigabitethernet0/4 transceiver
Transceiver monitoring is disabled for all interfaces.
ITU Channel not available (Wavelength not available),
Transceiver is internally calibrated.
If device is externally calibrated, only calibrated values are printed.
++ : high alarm, + : high warning, - : low warning, -- : low alarm.
NA or N/A: not applicable, Tx: transmit, Rx: receive.
mA: milliamperes, dBm: decibels (milliwatts).

Port          Temperature  Voltage  Current  Optical  Optical
-----          (Celsius)  (Volts)  (mA)     Tx Power  Rx Power
-----          -----
Gi0/4          36.0       3.32     36.1     -0.2     -40.0 --
OZC>
```

** Note that the SFP Monitoring is disabled during the readout only – then it refreshes. **

5. To read DDM, type "show interfaces gigabitethernet0/4 transceiver detail" [enter] for the full SFP DDM details, including Alarms and Warning values.

```

C-1. Telnet 10.150.28.92

Password:
OZC>show interfaces gigabitethernet0/4 transceiver detail
Transceiver monitoring is disabled for all interfaces.

ITU Channel not available (Wavelength not available).
Transceiver is internally calibrated.
mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable.
++ : high alarm, + : high warning, - : low warning, -- : low alarm.
A2D readouts (if they differ), are reported in parentheses.
The threshold values are calibrated.

```

Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
Gi0/4	36.6	75.5	70.0	-18.0	-20.5

Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Warn Threshold (Volts)	Low Alarm Threshold (Volts)
Gi0/4	3.32	3.63	3.49	3.10	2.97

Port	Current (milliamperes)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Warn Threshold (mA)	Low Alarm Threshold (mA)
Gi0/4	39.6	70.0	60.0	15.0	5.0

Port	Optical Transmit Power (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Gi0/4	0.2	3.0	2.3	-2.2	-3.0

Port	Optical Receive Power (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Gi0/4	-40.0 --	3.0	1.7	-18.9	-25.1

- To read the Vendor Name you have to be in the Privileged Commands mode. To get to this mode, type "en" [enter] and the Password for this mode.
Password: "1234" [enter]. This is the same Password as entered during Switch setup for the Enhanced mode.

```

C-1. Telnet 10.150.28.92

OZC>en
Password:
OZC#

```

** Note that the character after "OZC" has changed from ">" to "#". **

- To read Vendor Name, type "show idprom interface gigabitethernet0/4" [enter].

```

CA. Telnet 10.150.28.92

General SFP Information
-----
Identifier      : 0x03
Connector      : 0x01
Transceiver     : 0x00 0x00 0x00 0x12 0x00 0x00 0x00 0x00
Encoding       : 0x01
BR_Nominal     : 0x0D
Vendor Name     : OZC_01_25275
Vendor Part Number : AF6-151G1-SU
Vendor Revision : 0x31 0x2E 0x30 0x20
Vendor Serial Number : 131119103
-----

Other Information
-----
Port asic num   : 0
Port asic port num : 0
XCVR init completed : 1
Embedded PHY    : not present
--More--

```

**** Note: Repeat this command until you get a response. ****

In the Vendor Name field the structure you see is “OZC_01_25275” where “01” is the number of Reflections and “25275” is the distance in meters to the farthest Reflection.

“OZC_” will be displayed when No Reflections are detected.

“OpticalZonu,Corp” will be displayed during the first 60 seconds after powering up the SFP, or, for any SFPs without the alternate Vendor Name readout capability.

8. Whether in the Privileged Commands mode, or not, you can still read the DDM (using the steps above). **But you must be** in the Privileged Commands in order to read Vendor Name.

```

CA. Telnet 10.150.28.92

OZC#show interfaces gigabitethernet0/4 transceiver
Transceiver monitoring is disabled for all interfaces.

ITU Channel not available <Wavelength not available>.
Transceiver is internally calibrated.
If device is externally calibrated, only calibrated values are printed.
++ : high alarm, + : high warning, - : low warning, -- : low alarm.
NA or N/A: not applicable, Tx: transmit, Rx: receive.
mA: milliamperes, dBm: decibels <milliwatts>.

Port          Temperature Voltage Current Optical Optical
              <Celsius>  <Volts>  <mA>      <dBm>    Tx Power  Rx Power
              <dBm>    <dBm>
-----
Gi0/4         36.1      3.32     37.1      0.0      -40.0 --
OZC#

```

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