



北京溢德通达科技有限公司

Beijing Bui-Net Systems.

地址：北京市海淀区上地信息路甲 28 号科实大厦 C-12A-3

思科 N9K-C92160YC-X 使用 100G SR4 无法查看 DOM 值

问题描述

某客户从我司购买 100G-SR4 光模块后，使用在思科 N9K-C92160YC-X 交换机上，想通过命令行查看光模块的诊断信息，但是交换机不显示 TX Power 值，客户认为模块有问题，要求我们配合处理。

解决方案

1. 首先在交换机控制界面查看该模块的信息。



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```
Ethernet1/50
transceiver is present
type is QSFP-100G-SR4
name is BRO-WAY
part number is QSFP-100GB-SR4
revision is 1A
serial number is BQS21340035
nominal bitrate is 25500 MBit/sec
Link length supported for 50/125um OM3 fiber is 70 m
cisco id is 17
cisco extended id number is 204

Lane Number:1 Network Lane
SFP Detail Diagnostics Information (internal calibration)
-----
Current Measurement      Alarms      warnings
                        High      Low      High      Low
-----
Temperature 35.04 C      80.00 C      -10.00 C      75.00 C      -5.00 C
Voltage      3.28 V      3.63 V      2.97 V      3.46 V      3.13 V
Current      7.90 mA      12.00 mA      3.00 mA      10.00 mA      4.49 mA
Tx Power     N/A      5.39 dBm      -11.42 dBm      2.39 dBm      -8.41 dBm
Rx Power     -0.19 dBm      5.39 dBm      -13.37 dBm      2.39 dBm      -10.31 dBm
Transmit Fault Count = 0
-----
Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:2 Network Lane
SFP Detail Diagnostics Information (internal calibration)
-----
Current Measurement      Alarms      warnings
                        High      Low      High      Low
-----
Temperature 35.04 C      80.00 C      -10.00 C      75.00 C      -5.00 C
Voltage      3.28 V      3.63 V      2.97 V      3.46 V      3.13 V
Current      7.90 mA      12.00 mA      3.00 mA      10.00 mA      4.49 mA
Tx Power     N/A      5.39 dBm      -11.42 dBm      2.39 dBm      -8.41 dBm
Rx Power     -0.20 dBm      5.39 dBm      -13.37 dBm      2.39 dBm      -10.31 dBm
Transmit Fault Count = 0
-----
Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:3 Network Lane
SFP Detail Diagnostics Information (internal calibration)
-----
Current Measurement      Alarms      warnings
                        High      Low      High      Low
-----
Temperature 35.04 C      80.00 C      -10.00 C      75.00 C      -5.00 C
Voltage      3.28 V      3.63 V      2.97 V      3.46 V      3.13 V
Current      7.90 mA      12.00 mA      3.00 mA      10.00 mA      4.49 mA
Tx Power     N/A      5.39 dBm      -11.42 dBm      2.39 dBm      -8.41 dBm
Rx Power     -1.43 dBm      5.39 dBm      -13.37 dBm      2.39 dBm      -10.31 dBm
Transmit Fault Count = 0
-----
Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:4 Network Lane
SFP Detail Diagnostics Information (internal calibration)
-----
Current Measurement      Alarms      warnings
                        High      Low      High      Low
-----
Temperature 35.04 C      80.00 C      -10.00 C      75.00 C      -5.00 C
Voltage      3.28 V      3.63 V      2.97 V      3.46 V      3.13 V
Current      7.90 mA      12.00 mA      3.00 mA      10.00 mA      4.49 mA
Tx Power     N/A      5.39 dBm      -11.42 dBm      2.39 dBm      -8.41 dBm
Rx Power     0.11 dBm      5.39 dBm      -13.37 dBm      2.39 dBm      -10.31 dBm
Transmit Fault Count = 0
-----
Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

switch(config-if)#
```

可以看到，该模块的 DOM 诊断显示界面中，Tx Power 显示为 N/A，表明该模块支持 DOM 诊断查看，但是无法显示发射光功率，而 DOM 诊断查看中的其他，如温度、电压、偏置电流，接收光功率等均正常显示。

2. 在思科美国网站可以搜索以下信息：

Bug Search Tool

Bug Search > CSCvk24476

Help |  Feedback

Tx Power on Eth1/49 shows N/A using QSFP-100G-SR4-S
CSCvk24476

Description

Symptom:

When issue show interface transceiver detail, Tx Power on Eth1/49 sometimes shows "N/A" on some lanes.

Conditions:

N9K-C92160YC-X running with 7.0(3)I7(3)
Using QSFP-100G-SR4-S on eth1/49

Workaround:

Swapping QSFP between this port and the other working port. For example, if eth 1/50 has no problem with same type of QSFP, swapping QSFP between eth1/49 and eth1/50.

Further Problem Description:

Was the description about this Bug Helpful? ☆☆☆☆☆ (0)

Details

Last Modified: Apr 28,2020

Status: Terminated

Severity: 3 Moderate

Product: **(1)**
Cisco Nexus 9000 Series Switches

Known Affected Releases: **(1)**
7.0(3)I7(3)

Known Fixed Releases: **(0)**
No release planned to fix this bug

[Download software for Cisco Nexus 9000 Series Switches](#)

Community Discussion on CSCvk24476 - Cisco Community

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 Start Community Discussion

可以看到，这是一个发现于 2020 年 4 月 28 日的系统 BUG，但是截至目前为止，思科并没有修复该 BUG。

建议与总结

- 1、此 BUG 为思科 XE IOS 系统自带的 BUG，第三方无法修复，只能等思科官方更新系统后再行尝试。