



# CXone Mpower EXPERT

## 由于交换机端SFP出现故障、导致Brocade交换机端口盖板

[https://kb-cn-stage.netapp.com/on-prem/Switches/Brocade-KBs/Brocade\\_switch\\_port\\_flaps\\_due\\_to\\_fa...](https://kb-cn-stage.netapp.com/on-prem/Switches/Brocade-KBs/Brocade_switch_port_flaps_due_to_fa...)

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### 适用场景

- 所有Brocade交换机硬件平台
- 所有Brocade Fabric Operating System (FOS)固件级别
- 后端MCC交换机

### 问题描述

- 交换机端口状态**online**在下显示为"`switchshow` :

```
/fabos/bin/switchshow :  
Index Slot Port Address Media Speed State Proto  
=====
```

Index	Slot	Port	Address	Media	Speed	State	Proto
75	9	11	0f4b40	id N32	Online	FC	F-Port 10:00:94:40:c9:cf:4a:b1

- C3 discards, C3timeout TX errors, link fail, loss sync uncorr 错误 报告在下 `porterrshow` :

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```

porterrshow 9/11
      frames      enc      crc      crc      too      too      bad      enc      disc
link  loss  loss  frjt  fbsy  c3timeout  pcs  uncor
      tx      rx      in      err      g_eof  shrt  long  eof      out  c3
fail  sync  sig
      tx      rx      err      err
75:  204.0m 293.1m 0      0      0      0      0      0      0      0      540
447  284    1    0      0      540    0      0      0      96

```

- [Brocade的SFP光学功率级别的正常范围是什么](#) `sfpshow` 输出下报告Brocade交换机端口的Tx功率低。

```

=====
Port 4:
=====
Length 62.5u: 0 (units 10 meters)
Length Cu: 0 (units 1 meter)
Vendor Name: BROCADE
Vendor OUI: 00:05:1e
Vendor PN: 57-0000088-01
Vendor Rev: A
Wavelength: 850 (units nm)
Options: 003a Loss_of_Sig,Tx_Fault,Tx_Disable
BR Max: 0
BR Min: 0
Serial No: HAF618230000T4B
RX Power: -3.0 dBm (501.1uW)
TX Power: -7.1 dBm (195.8 uW)

```

- `LR_OUTFabriclog` 输出和 `offline online` 报告的事件下报告了链路重置()

```

Switch 0; Fri Nov 11 11:23:12 2022 IST (GMT+5:30)
22:52:28.290358 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA
23:08:39.902472 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA
23:17:38.738930 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA
23:22:26.529633 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA
23:24:29.226184 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA
23:25:11.419546 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA
23:25:53.721693 SCN LR_PORT(0);g=0x19ee LR_OUT      A2,P0  A2,P0  75  NA

15:43:33.967361 SCN Port Offline;rsn=0x2,g=0x2e50    A2,P0  A2,P0  78  NA

```

```

15:43:33.967370 *Removing all nodes from port          A2,P0  A2,P0  78  NA
15:43:34.615134 SCN LR_PORT(0);g=0x2e50              A2,P0  A2,P0  78  NA
15:43:34.694264 SCN Port Online; g=0x2e50,isolated=0    A2,P0  A2,P1  78  NA

15:43:34.695063 Port Elp engaged                    A2,P1  A2,P0  78  NA
15:43:34.695079 *Removing all nodes from port          A2,P0  A2,P0  78  NA
15:43:34.695304 SCN Port F_PORT                    A2,P1  A2,P0  78  NA
15:51:04.900869 SCN Port Offline;rsn=0x4,g=0x2e52      A2,P0  A2,P0  78  NA

15:51:04.900878 *Removing all nodes from port          A2,P0  A2,P0  78  NA
15:51:04.913521 SCN LR_PORT(0);g=0x2e52              A2,P0  A2,P0  78  NA
15:51:04.986758 SCN Port Online; g=0x2e52,isolated=0    A2,P0  A2,P1  78  NA

15:51:04.986848 Port Elp engaged                    A2,P1  A2,P0  78  NA
15:51:04.986862 *Removing all nodes from port          A2,P0  A2,P0  78  NA
15:51:04.987210 SCN Port F_PORT                    A2,P1  A2,P0  78  NA

```

- **Sfppshow** 表示 Rx和Tx处于最佳范围。

```

Slot 9/Port 11:
=====
RX Power: -2.4 dBm (573.4uW)
TX Power: -1.0 dBm (795.1 uW)

```

- 在 **errdump** 日志中 defALL\_TARGET\_PORTSSTATE\_CHG\_3 、 defRD\_1stDATA\_TIME\_11000defRD\_STATUS\_TIME\_12000 生成的规则与&规则指示端口状态每分钟更改3次以上

```

2023/01/28-16:03:41, [MAPS-1003], 187624, SLOT 1 | FID 128, WARNING,
Switch_Name, slot9 port14, F-Port 9/14, Condition=ALL_TARGET_PORTS(STATE_CHG/
min>3), Current Value:[STATE_CHG, 4], RuleName=defALL_TARGET_PORTSSTATE_CHG_3,
Dashboard Category=Port Health.
2023/01/28-16:04:05, [MAPS-1003], 187625, SLOT 1 | FID 128, WARNING,
Switch_Name, slot9 port14, F-Port 9/14, Condition=ALL_OTHER_F_PORTS(STATE_CHG/
min>5), Current Value:[STATE_CHG, 6], RuleName=defALL_OTHER_F_PORTSSTATE_CHG_5,
Dashboard Category=Port Healt
2023/01/28-16:04:53, [MAPS-1003], 187626, SLOT 1 | FID 128, WARNING,
Switch_Name, slot9 port14, F-Port 9/14, Condition=ALL_TARGET_PORTS(STATE_CHG/
min>3), Current Value:[STATE_CHG, 4], RuleName=defALL_TARGET_PORTSSTATE_CHG_3,
Dashboard Category=Port Health.2023/04-24-19: 37: 30 (IST)、[MAPS-1003]、193109、插
槽2 | FID 128、警告、Switch_Name、流量(SID=0x665641、DID=0x663440、主机端口=10/6)、条件

```

=sys\_flow\_monitor\_SCSI (RD/1st data\_time/10sec>11000) 、 当前值: [RD\_1st data\_time \ 12952微秒], 规则名称=defRD\_1st\_data\_time\_11000, 信息板类别= IO延迟, 静默时间= 10分钟

2023/04/24-19:37:30 (IST), [MAPS-1003], 193110, SLOT 2 | FID 128, WARNING, Switch\_Name, Flow (SID=0x665641,DID=0x663440,Host Port=10/6), Condition=sys\_flow\_monitor\_scsi(RD\_STATUS\_TIME/10SEC>12000), Current Value:[RD\_STATUS\_TIME, 12953 Microseconds], RuleName=defRD\_STATUS\_TIME\_12000, Dashboard Category=IO Latency, Quiet Time=10 min.

- Frame timeout 在 **errdump** 交换机端的日志中报告的事件、指出哪个端口接收到帧(Rx)、无法在何处(TX)传输帧以及 link reset 事件:

2024/02/25-02:26:06 (GMT), [AN-1014], 588, FID 128, INFO, switch, **Frame timeout detected**, tx port 4 rx port 20, sid 500xx, did 704zz, timestamp 2024-02-25 02:26:06 .

2024/02/25-02:26:07 (GMT), [AN-1014], 608, FID 128, INFO, switch, Frame timeout detected, tx port 4 rx port 0, sid 700xx, did 704zz, timestamp 2024-02-25 02:26:07 .

2024/02/25-02:26:08 (GMT), [C4-1014], 628, CHASSIS | PORT 0/4, WARNING, switch, **Link Reset** on Port S0,P4(22) vc\_no=0 crd(s)lost=6 auto trigger.