



FC 目标适配器链路未连接

https://kb-cn-stage.netapp.com/on-prem/ontap/da/SAN/SAN-KBs/FC_target_adapter_link_not_connected

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适用场景

- ONTAP 9
- FC SAN
- Brocade 交换机上的端口
- Brocade 光纤操作系统(FOS)

问题描述

- SYCONFIG-A 显示适配器状态为LINK NOT CONNECTED :

```
slot 1: Fibre Channel Target Host Adapter 1c  
      (Emulex LPe32000 (LPe32004) rev. 12, <LINK NOT CONNECTED>)
```

- FCP-ADAPTER.XML 或者 `network fcp adapter show` 适配器显示运行状态LINK NOT CONNECTED :

```
cluster1::> network fcp adapter show -node cluster1-01 -adapter 0a
```

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```
[...]
Administrative Status: up
Operational Status: link not connected
Extended Status: ADAPTER UP
```

- FCP-ADAPTER.XML 或者 network fcp adapter show 对于适配器显示没有接收功率和正常发射功率：

```
cluster1::> network fcp adapter show -node cluster1-01 -adapter 0a
[...]
Received Optical Power: 0.0 (uWatts)
Is Received Power In Range: false
SFP Transmitted Optical Power: 1069.1 (uWatts)
Is Xmit Power In Range: true
```

- NETWORK-INTERFACE.XML 或者 network interface show 适配器上的 LIF 显示扩展状态 Waiting for Link：

```
cluster1::> network interface show -instance -curr-node cluster1-01 -curr-port 0a
[...]
Administrative Status: up
Extended Status: Waiting for Link.
```

- EMS 日志中显示链接中断：

```
[cluster1-01: fct_tpd_work_thread_0: scsitaraget.slifct.linkBreak:error]: Link break
detected on Fibre Channel target HBA 0a with event status 1 , topology type 1,
status1 0x0, status2 0x0.
```

- switchshow 在连接的 Brocade 交换机上显示 No_Sync 状态：

```
switch:admin> switchshow
[...]
Index Port Address Media Speed State Proto
=====
[...]
13 13 010d00 id N32 No_Sync FC
```

- sfpshow 开关显示接收和发射功率正常：

```
switch:admin> sfpshow 13
[...]
RX Power: -0.3 dBm (933.5uW)
TX Power: -0.6 dBm (862.3 uW)
```

- 在交换机端，当将连接的线缆换到另一个端口时，问题会随着线缆一起出现。
- 在 NetApp 端，当将线缆与连接到同一光纤网络/交换机的 HA 伙伴节点上适配器上已知正常工作的线缆交换时，问题也会随着线缆一起出现。