



## SAS连接子系统由于缆线不受支持而处于降级状态

[https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/SAS-connect\\_subsystem\\_in\\_degraded...](https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/SAS-connect_subsystem_in_degraded...)

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### 适用场景

ONTAP 9

### 问题描述

- SAS连接子系统处于已降级状态。示例：

```
::> system health subsystem show
Subsystem      Health
-----
SAS-connect    degraded
Environment    ok
...
```

- 多个EMS警报。示例：

```
[node_name: nchmd: hm.alert.raised:alert]: Alert Id =
DegradedShelfToShelfCabling_Alert , Alerting Resource = 012345678910 raised by
monitor node-connect
```

```
[node_name: nchmd: hm.alert.raised:alert]: Alert Id =
DegradedShelfToShelfCabling_Alert , Alerting Resource = 012345678911 raised by
monitor node-connect
[node_name: nchmd: hm.alert.raised:alert]: Alert Id =
DegradedShelfToShelfCabling_Alert , Alerting Resource = 012345678912 raised by
monitor node-connect
[node_name: nchmd: hm.alert.raised:alert]: Alert Id =
DegradedShelfToShelfCabling_Alert , Alerting Resource = 012345678913 raised by
monitor node-connect
[node_name: nchmd: hm.alert.raised:alert]: Alert Id =
DegradedShelfToShelfCabling_Alert , Alerting Resource = 012345678914 raised by
monitor node-connect
[node_name: mgwd: callhome.hm.alert.major:alert]: Call home for Health Monitor
process nchm: DegradedShelfToShelfCabling_Alert[012345678914].
```

• System health alert 示例：

```
Monitor          node-connect
Alert ID         DegradedShelfToShelfCabling_Alert
Alerting Resource 012345678910
Subsystem        SAS-connect
Indication Time  Wed Apr 27 05:37:56 2022
Perceived Severity Major
Probable Cause   Cable_tamper
Description
Disk shelf 0a.shelf10 is connected only through 2 paths on IOM A and 2 paths on
IOM B either to adjacent disk shelves or to the partner controller of the
GobettiInfraTS-02 controller.
Because controller node_name is connected to stack 0 through a quad-path
configuration, disk shelf 0a.shelf10 must be connected with double-wide cabling
to adjacent disk shelves or quad-path to the partner controller.
Corrective Actions
1. Consult the guide applicable to your IOM12 disk shelf to review cabling
rules and complete the SAS cabling worksheet for your system.
2. If disk shelf 0a.shelf10 is connected to another disk shelf, verify that
disk shelf 0a.shelf10 is connected with double-wide cabling.
3. If disk shelf 0a.shelf10 is connected to the partner controller, verify that
stack 0 containing disk shelf 0a.shelf10 is connected through a quad-path
configuration.
4. Contact technical support if the alert persists.
Possible Effect  Inconsistent cabling might cause degraded performance.
Acknowledge      false
Suppress         false
Policy           DegradedShelfToShelfCabling_Policy
```

• SAS 缆线不兼容。示例：

```
slot 0: SAS Host Adapter 0a (PMC-Sierra PM8072 rev. C, SAS, <UP>)
Mini-SAS HD Vendor:      FCI Electronics
Mini-SAS HD Part Number: 10129376-3020LF+A
```

Mini-SAS HD Type: Passive Copper (unequalized) 4m ID:00  
Mini-SAS HD Serial Number: 1778214CR0028A00