

解决ASR 5500系列“FanFailed”错误情况

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简介

本文描述与风扇故障错误和解决方案涉及的问题报告由简单网络管理协议(SNMP)陷阱，看到在思科聚合服务路由器(ASR) 5500平台。这通常发生，虽然少见，在平台的正常操作。

问题

有时FanFailed报警在ASR 5500平台被看到关于风扇第1和2如显示此处：

```
Tue Apr 01 16:07:07 2014 Internal trap notification 22 (FanFailed)
fan number 2 fan status Communication Error
Tue Apr 01 16:07:27 2014 Internal trap notification 22 (FanFailed)
fan number 1 fan status Communication Error
```

更低后方和更低前鼓风机当前报告UNKNOWN状态，并且节点卡的一般温度当时看来是好的。

```
[local]ASR5500# show fan
Tuesday April 01 16:47:04 BST 2014
Lower Rear Fan Tray:
State: Unknown
Speed: 0%
Temperature: Unknown
```

```
Upper Rear Fan Tray:
State: Normal
Speed: 50%
Temperature: 27C
```

```
Lower Front Fan Tray:
State: Unknown
Speed: 0%
Temperature: Unknown
```

```
Upper Front Fan Tray:
State: Normal
Speed: 50%
Temperature: 27C
```

解决方案

当您重新安装风扇模块时，此问题通常是解决的。完成这些步骤为了验证状态是正常：

1. 滑风扇模块。等待两到三分钟然后滑它回到slot。

2. 输入此命令为了验证风扇在正常状态：

```
[local]ASR5500# show fans verbose
Thursday May 28 19:16:54 EDT 2015
Location State Speed Temp Version WD Tach Current
-----
Lower Rear Normal 50% 24C 0.2.5 E -- --
Fan 00 Normal -- -- -- -- 3280 386mA
Fan 01 Normal -- -- -- -- 3280 406mA
Fan 02 Normal -- -- -- -- 3320 416mA
Fan 03 Normal -- -- -- -- 3240 396mA
Fan 04 Normal -- -- -- -- 3280 440mA
Fan 05 Normal -- -- -- -- 3280 430mA
Fan 06 Normal -- -- -- -- 3240 460mA
Fan 07 Normal -- -- -- -- 3280 493mA
Fan 08 Normal -- -- -- -- 3240 470mA

Upper Rear Normal 50% 39C 0.2.5 E -- --
Fan 00 Normal -- -- -- -- 3240 430mA
Fan 01 Normal -- -- -- -- 3240 416mA
Fan 02 Normal -- -- -- -- 3280 416mA
Fan 03 Normal -- -- -- -- 3320 460mA
Fan 04 Normal -- -- -- -- 3280 416mA
Fan 05 Normal -- -- -- -- 3320 416mA
Fan 06 Normal -- -- -- -- 3240 430mA
Fan 07 Normal -- -- -- -- 3280 430mA
Fan 08 Normal -- -- -- -- 3320 430mA

Lower Front Normal 50% 23C 0.2.5 E -- --
Fan 09 Normal -- -- -- -- 2520 146mA
Fan 10 Normal -- -- -- -- 2520 146mA
Fan 11 Normal -- -- -- -- 2400 146mA

Upper Front Normal 50% 35C 0.2.5 E -- --
Fan 09 Normal -- -- -- -- 2400 146mA
Fan 10 Normal -- -- -- -- 2520 146mA
Fan 11 Normal -- -- -- -- 2400 146mA
```

3. 输入此命令为了验证风扇模块运行正确固件版本：

```
[local]ASR5500# show hardware version fans
Thursday May 28 19:16:54 EDT 2015
Fan Tray Controller Version
Upper Fan Tray: 0.2.5
Lower Fan Tray: 0.2.5
```

4. 输入此命令为了验证清除了SNMP陷阱错误，并且没有错误，在风扇模块重新安装后：

```
[local]ASR5500# show snmp trap hist ver | grep -i fan
Saturday February 07 08:22:32 UTC 2015
Sat Feb 07 07:56:38 2015 Internal trap notification 1509 (CiscoFruFanStatusChanged)
FRU entity Fan tray fan status changed to Communication Error at Lower Front
Sat Feb 07 07:56:38 2015 Internal trap notification 22 (FanFailed) fan number 1
fan status Communication Error
Sat Feb 07 07:56:38 2015 Internal trap notification 1503 (EntStateOperDisabled)
Fan Tray(Lower Front) Admin state:"Unknown", Alarm severity:"Major"
Sat Feb 07 07:56:58 2015 Internal trap notification 1509 (CiscoFruFanStatusChanged)
FRU entity Fan tray fan status changed to Normal at Lower Front
Sat Feb 07 08:09:06 2015 Internal trap notification 1509 (CiscoFruFanStatusChanged)
FRU entity Fan tray fan status changed to Communication Error at Lower Front
Sat Feb 07 08:09:06 2015 Internal trap notification 22 (FanFailed) fan number 1
```

```
fan status Communication Error
Sat Feb 07 08:09:06 2015 Internal trap notification 1503 (EntStateOperDisabled)
Fan Tray(Lower Front) Admin state:"Unknown", Alarm severity:"Major"
Sat Feb 07 08:10:26 2015 Internal trap notification 1509 (CiscoFruFanStatusChanged)
FRU entity Fan tray fan status changed to Normal at Lower Rear
Sat Feb 07 08:10:26 2015 Internal trap notification 1509 (CiscoFruFanStatusChanged)
FRU entity Fan tray fan status changed to Normal at Lower Front
```

相关信息

- [ASR5000 SGSN管理指南- Cisco系统](#)
- [技术支持和文档 - Cisco Systems](#)