NCS5500 SATA FPD不通过自动FPD升级升级

目录

[简介](#)

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简介

本文描述当网络融合系统5500(NCS5500)串行ATA(SATA)现场可编程设备(FPD)不通过Auto FPD Upgrade升级时发生的问题。从先前版本升级到版本6.3.3/6.5.1/7.0.1或更高版本并使用自动升级功能时，某些卡的某些驱动器可能无法升级。

它从上述版本开始。添加了SATA FPD升级功能以及适用于某些SATA类型（微米）的新固件版本。对于这些版本，新版本为5.00，而旧的FPD版本为3.00。

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以下是重现问题的步骤以及如何升级SATA。请注意，升级其FPD后，无需重新加载卡。

```
sysadmin-vm:0_RP0(config)# fpd auto-upgrade enable
sysadmin-vm:0_RP0(config)# commit
Wed Sep  12 15:57:26.892 UTC
Commit complete.
sysadmin-vm:0_RP0(config)# exit
Wed Sep  12 15:57:28.187 UTC
sysadmin-vm:0_RP0# exit
Wed Sep  12 15:57:30.101 UTC
RP/0/RP0/CPU0:router#conf t
Wed Sep 12 10:57:32.154 CDT
RP/0/RP0/CPU0:router(config)#fpd auto-upgrade enable
RP/0/RP0/CPU0:router(config)#commit
```

<安装后激活并重新加载>

```
RP/0/RP0/CPU0:router#show hw-module fpd
Wed Sep 12 11:51:32.195 CDT
                                                                FPD Versions
                                                                ================
Location   Card type        HWver FPD device       ATR Status   Running Programd
```

```
--------------------------------------------------------------------------------
0/0       NC55-36X100G-S    1.2   MIFPGA              CURRENT    0.07    0.07
0/0       NC55-36X100G-S    1.2   Bootloader          CURRENT    1.13    1.13
0/0       NC55-36X100G-S    1.2   IOFPGA              CURRENT    0.11    0.11
0/0       NC55-36X100G-S    1.2   SATA                NEED UPGD  3.00    3.00
0/RP0     NC55-RP           1.1   Bootloader          CURRENT    9.25    9.25
0/RP0     NC55-RP           1.1   IOFPGA              CURRENT    0.09    0.09
0/RP1     NC55-RP           1.1   Bootloader          CURRENT    9.25    9.25
0/RP1     NC55-RP           1.1   IOFPGA              CURRENT    0.09    0.09
0/FC0     NC55-5504-FC      1.0   Bootloader          CURRENT    1.75    1.75
0/FC0     NC55-5504-FC      1.0   IOFPGA              CURRENT    0.07    0.07
0/FC1     NC55-5504-FC      1.0   Bootloader          CURRENT    1.75    1.75
0/FC1     NC55-5504-FC      1.0   IOFPGA              CURRENT    0.07    0.07
0/FC2     NC55-5504-FC      1.0   Bootloader          CURRENT    1.75    1.75
0/FC2     NC55-5504-FC      1.0   IOFPGA              CURRENT    0.07    0.07
0/FC3     NC55-5504-FC      1.0   Bootloader          CURRENT    1.75    1.75
0/FC3     NC55-5504-FC      1.0   IOFPGA              CURRENT    0.07    0.07
0/FC5     NC55-5504-FC      1.0   Bootloader          CURRENT    1.75    1.75
0/FC5     NC55-5504-FC      1.0   IOFPGA              CURRENT    0.07    0.07
0/SC0     NC55-SC           2.0   Bootloader          CURRENT    1.74    1.74
0/SC0     NC55-SC           2.0   IOFPGA              CURRENT    0.10    0.10
0/SC1     NC55-SC           2.0   Bootloader          CURRENT    1.74    1.74
0/SC1     NC55-SC           2.0   IOFPGA              CURRENT    0.10    0.10
RP/0/RP0/CPU0:router# admin
Wed Sep 12 11:51:54.259 CDT

admin connected from 127.0.0.1 using console on router

sysadmin-vm:0_RP1# upgrade hw-module location 0/0 fpd ?
Possible completions:
  Bootloader  IOFPGA  SATA  all
sysadmin-vm:0_RP1# upgrade hw-module location 0/0 fpd all
Wed Sep  12 16:52:07.859 UTC
sysadmin-vm:0_RP1# 0/RP1/ADMIN0:Sep 12 11:52:10.861 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_AL
0/RP1/ADMIN0:Sep 12 11:52:10.861 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT : Location
0/RP1/ADMIN0:Sep 12 11:52:10.861 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT : ==========
0/RP1/ADMIN0:Sep 12 11:52:10.864 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT : 0/0
0/RP1/ADMIN0:Sep 12 11:52:10.864 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT : 0/0
0/RP1/ADMIN0:Sep 12 11:52:10.864 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT : 0/0
0/0/ADMIN0:Sep 12 11:52:16.876 CDT: sata_fpd[3179]: %INFRA-FPD_Driver-1-UPGRADE_ALERT : FPD SATA@0/0 im
RP/0/RP0/CPU0:Sep 12 11:52:16.871 CDT: fpd-serv[427]: %PKT_INFRA-FM-3-FAULT_MAJOR : ALARM_MAJOR :FPD-NE

sysadmin-vm:0_RP1#
sysadmin-vm:0_RP1#
sysadmin-vm:0_RP1#
sysadmin-vm:0_RP1# exit
Wed Sep  12 16:52:27.767 UTC
RP/0/RP0/CPU0:router#show hw-module fpd
Wed Sep 12 11:52:33.810 CDT
                                                                  FPD Versions
                                                                  ================
Location   Card type        HWver FPD device       ATR Status   Running Programd
--------------------------------------------------------------------------------
0/0       NC55-36X100G-S    1.2   MIFPGA              CURRENT    0.07    0.07
0/0       NC55-36X100G-S    1.2   Bootloader          CURRENT    1.13    1.13
0/0       NC55-36X100G-S    1.2   IOFPGA              CURRENT    0.11    0.11
0/0       NC55-36X100G-S    1.2   SATA                CURRENT    5.00    5.00
0/RP0     NC55-RP           1.1   Bootloader          CURRENT    9.25    9.25
0/RP0     NC55-RP           1.1   IOFPGA              CURRENT    0.09    0.09
0/RP1     NC55-RP           1.1   Bootloader          CURRENT    9.25    9.25
0/RP1     NC55-RP           1.1   IOFPGA              CURRENT    0.09    0.09
0/FC0     NC55-5504-FC      1.0   Bootloader          CURRENT    1.75    1.75
```

0/FC0	NC55-5504-FC	1.0	IOFPGA	CURRENT	0.07	0.07
0/FC1	NC55-5504-FC	1.0	Bootloader	CURRENT	1.75	1.75
0/FC1	NC55-5504-FC	1.0	IOFPGA	CURRENT	0.07	0.07
0/FC2	NC55-5504-FC	1.0	Bootloader	CURRENT	1.75	1.75
0/FC2	NC55-5504-FC	1.0	IOFPGA	CURRENT	0.07	0.07
0/FC3	NC55-5504-FC	1.0	Bootloader	CURRENT	1.75	1.75
0/FC3	NC55-5504-FC	1.0	IOFPGA	CURRENT	0.07	0.07
0/FC5	NC55-5504-FC	1.0	Bootloader	CURRENT	1.75	1.75
0/FC5	NC55-5504-FC	1.0	IOFPGA	CURRENT	0.07	0.07
0/SC0	NC55-SC	2.0	Bootloader	CURRENT	1.74	1.74
0/SC0	NC55-SC	2.0	IOFPGA	CURRENT	0.10	0.10
0/SC1	NC55-SC	2.0	Bootloader	CURRENT	1.74	1.74
0/SC1	NC55-SC	2.0	IOFPGA	CURRENT	0.10	0.10

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