

NCS5500 SATA FPD不升级，自动FPD升级

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简介

本文档介绍当网络融合系统5500(NCS5500)串行ATA(SATA)现场可编程设备(FPD)不通过自动 FPD升级进行升级时出现的问题。当您从以前的版本升级到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。

从上述版本开始。添加了SATA FPD升级功能，以及某些SATA类型（微米）的新固件版本。在这些版本中，新版本为5.00，而3.00是旧FPD版本。

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以下是重现问题的步骤以及如何升级SATA。请注意，升级卡的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
```

Location	Card type	HWver	FPD device	ATR Status	FPD Versions	
					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_ALERT : Upgrade for the following FPDs has been committed:

```

```

0/RP1/ADMIN0:Sep 12 11:52:10.861 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT :
Location          FPD name          Force

```

```

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                SATA                FALSE

```

```

0/RP1/ADMIN0:Sep 12 11:52:10.864 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT :
0/0                IOFPGA              FALSE

```

```

0/RP1/ADMIN0:Sep 12 11:52:10.864 CDT: fpdserv[4429]: %INFRA-FPD_Manager-1-UPGRADE_ALERT :
0/0                Bootloader          FALSE

```

```

0/0/ADMIN0:Sep 12 11:52:16.876 CDT: sata_fpd[3179]: %INFRA-FPD_Driver-1-UPGRADE_ALERT : FPD
SATA@0/0 image programming completed with UPGRADE DONE state Info: [SATA FPD upgrade Complete]

```

```

RP/0/RP0/CPU0:Sep 12 11:52:16.871 CDT: fpd-serv[427]: %PKT_INFRA-FM-3-FAULT_MAJOR : ALARM_MAJOR
:FPD-NEED-UPGRADE :CLEAR :0/0:

```

```

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

```

Location	Card type	HWver	FPD device	ATR	Status	FPD Versions	
						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