

O NCS5500 SATA FPD não é atualizado com a atualização automática de FPD

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Introduction

Este documento descreve os problemas que ocorrem quando o Network Convergence System 5500 (NCS5500) Serial ATA (SATA) Field Programmable Device (FPD) não é atualizado com o Auto FPD Upgrade. Quando você atualiza para versões 6.3.3/6.5.1/7.0.1 ou mais recentes de uma versão anterior e usa o recurso de atualização automática, algumas unidades para algumas placas podem não ser atualizadas.

Começa nos lançamentos acima. O recurso de atualização de FPD SATA foi adicionado juntamente com uma nova versão de firmware para alguns tipos SATA (Micron). No caso dessas versões, a nova versão é 5.00, enquanto a 3.00 era a antiga versão FPD.

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Aqui estão as etapas para reproduzir o problema e como atualizar o SATA. Observe que não há necessidade de recarregar a placa depois de atualizar seu FPD.

```
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
```

<após a instalação, ative e recarregue>

```
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   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

```

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