

Vervang een mislukte redundante supervisor module in Catalyst 6500 Series-switches die CatOS (hybride) uitvoeren

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Dit document toont hoe te om een mislukte overtollige Supervisor module in Catalyst 6500 Series switches te vervangen. Dit document verklaart de procedure voor de Supervisor modules die in Hybrid OS lopen.

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Cisco raadt kennis van de volgende onderwerpen aan:

- [Redundantie configureren](#)
- [NSF configureren met SSO MSFC-redundantie](#)

[Gebruikte componenten](#)

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Cisco Catalyst 6500 Series switch
- Supervisor Module: WS-SUP32-2 GE-3B switch
- Hybride OS: Catalyst OS (CatOS) 8.5(8)MSFC IOS® 12.2(18)SXF7

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u de potentiële impact van elke opdracht begrijpen.

[Verwante producten](#)

Dit document kan ook met deze hardware- en softwareversies worden gebruikt:

- Supervisor 720 die Hybrid OS in werking stelt
- Supervisor 2 die Hybride OS in werking stelt

[Conventies](#)

Raadpleeg [Cisco Technical Tips Conventions \(Conventies voor technische tips van Cisco\) voor meer informatie over documentconventies.](#)

[Achtergrondinformatie](#)

Dit zijn enkele van de belangrijke punten met betrekking tot overbodige toezichtsmodules:

- Op de standby Supervisor motor, is de console poort inactief, de module status toont als "standby" en de status voor de uplinks poorten wordt normaal getoond.
- Om u in staat te stellen de start van elke Supervisor Engine afzonderlijk te regelen, worden de configuratieregisters niet gesynchroniseerd tussen de toezichthouder motoren.
- Als de software versies van de twee Supervisor motoren verschillend zijn, of als de configuratie NVRAM van de twee Supervisor motoren verschillend is, downloads de actieve Supervisor motor automatisch zijn softwarebeeld en configuratie aan de standby Supervisor motor.
- De toezichthouder maakt gebruik van twee flitsbeelden: de opstartafbeelding en de uitvoering. De bestandsnaam van de oplader-afbeelding, die is opgegeven in de variabele Opv-omgeving, wordt opgeslagen in NVRAM. Het opstartbeeld is het opstartbeeld dat de ROM monitor gebruikt om de Supervisor Engine te starten. Nadat het systeem is opgestart, bevindt het uitvoertijdbeeld zich in dynamisch RAM (DRAM).
- De redundante toezichthouder moet van hetzelfde type zijn met dezelfde modelfunctiekaart. De WS-X6K-SUP1-2GE en de WS-X6K-SUP1A-2GE, die beide zonder de Kaarten van de Gegevens van de Beleidsfunctie (PFCs) zijn compatibel voor redundantie. Voor Supervisor Engine met PFC's moeten de PFC's identiek zijn voor redundantie (twee PFC's, twee PFC2s, twee PFC3AS, twee PFC3Bs, of twee PFC3BXL's).

[Stap voor stap Procedure om de Supervisor Module te vervangen - Zelfde hybride OS](#)


```

%SYS-3-TRANSCEIVER_NOTSUPP: Transceiver on port 6/1 is not supported
%SYS-3-TRANSCEIVER_NOTSUPP: Transceiver on port 6/2 is not supported
%SYS-5-PORT_SSUPOK:Ports on standby supervisor (module 6) are up
%SYS-3-MOD_PORTINTFINSYNC:Port Interface in sync for Module 6
%DIAG-6-RUN_MINIMUM:Module 16: Running Minimal Diagnostics...
%DIAG-6-DIAG_OK:Module 16: Passed Online Diagnostics
%SYS-5-MOD_OK:Module 16(WS-F6K-MSFC2A,SAL1018LQ3C) is online
%MGMT-5-SYS_CONFIG_START_MOD_FAIL:Unable to start system configuration
for module 6
%MGMT-5-SYS_CONFIG_START_MOD_FAIL:Unable to start system configuration for
module 16
%SYS-5-SUP_IMGSYNSTART:Active supervisor is synchronizing bootdisk:
cat6000-sup32pfc3k8.8-5-8.bin
%SYS-5-SUP_IMGSYNCFINISH:Active supervisor has synchronized bootdisk:
cat6000-sup32pfc3k8.8-5-8.bin

```

```
Access2> (enable)
```

2. Controleer de redundantie van de toezichthouder:

```

Access2> (enable) show system highavailability
Highavailability: enabled
Highavailability versioning: disabled
Highavailability Operational-status: ON
Access2> (enable)

```

3. Controleer de MSFC-redundantiestatus:

```

Access2> (enable) session 15
Trying Router-15...
Connected to Router-15.
Escape character is '^]'.

```

```
LAB-Router>enable
```

```
LAB-Router#show redundancy
```

```
Redundant System Information :
```

```
-----
```

```

    Available system uptime = 10 minutes
Switchovers system experienced = 0
    Standby failures = 0
    Last switchover reason = unsupported

```

```
    Hardware Mode = Duplex
```

```
    Configured Redundancy Mode = Stateful SwitchOver - SSO
```

```
    Operating Redundancy Mode = Stateful SwitchOver - SSO
```

```
    Maintenance Mode = Disabled
```

```
    Communications = Up
```

```
Current Processor Information :
```

```
-----
```

```
    Active Location = slot 5
```

```
    Current Software state = ACTIVE
```

```
    Uptime in current state = 10 minutes
```

```
    Image Version = Cisco Internetwork Operating System Software
```

```
IOS (tm) MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M),
```

```
Version 12.2(18)SXF7, RELEASE SOFTWARE (fc1)
```


Boot image: bootdisk:cat6000-sup32pfc3k8.8-5-8.bin

Firmware compiled 01-Dec-06 12:57 by integ Build [100]

**This module is now in standby mode.
Console is disabled for standby supervisor**

5. Console in supervisor 6 en controleer de supervisor en MSFC configuratie.

Stap voor stap Procedure om de Supervisor Module te vervangen - Verschillende hybride OS

Deze sectie legt de stap voor stap procedure uit om de Supervisor Module 32 in een Catalyst 6500 Series switch te vervangen. Dit voorbeeld gebruikt een Cisco Catalyst 6509 switch die twee Supervisor modules in sleuf 5 en 6 heeft. De Supervisor module in sleuf 6 heeft gefaald. Verondersteld wordt dat de mislukte toezichtmodule in sleuf 6 van het chassis is verwijderd. U kunt de procedure zien om de nieuwe Supervisor module aan sleuf 6 toe te voegen.

Als u geen optie hebt om de nieuwe supervisor hybride OS aan de zelfde versie als de actieve supervisor te verbeteren, kunt u deze procedure uitvoeren om de Supervisor module toe te voegen en de Hybrid OS en de switchconfiguratie te synchroniseren. De meeste procedure is geautomatiseerd. Dit document toont het stap voor stap proces en de controlelijst die moet worden uitgevoerd tijdens de supervisor vervanging.

Controleer voordat u de nieuwe supervisor module toevoegt

Deze sectie toont u de show output van de schakelaar zonder de supervisor in sleuf 6.

- Module weergeven
- Versie weergeven
- variabele Opstarten

1. Module uitvoer weergeven:

```
Access2> (enable) show module
```

Mod	Slot	Ports	Module-Type	Model	Sub	Status
1	1	0	1000BaseX Ethernet		no	power-down
2	2	48	10/100BaseTX Ethernet	WS-X6248-RJ-45	no	ok
3	3	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes	ok
4	4	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes	ok
5	5	9	1000BaseX Supervisor	WS-SUP32-GE-3B	yes	ok
15	5	1	Multilayer Switch Feature	WS-F6K-MSFC2A	no	ok
7	7	5	Communication Media Mod.	WS-SVC-CMM	no	ok
8	8	0	FXS		no	power-down
9	9	0	10/100BaseTX Ethernet		no	power-down

```
!--- Output suppressed Mod Sub-Type Sub-Model Sub-Serial Sub-Hw Sub-Sw --- -----  
----- 3 Inline Power Module WS-F6K-VPWR 1.0  
1.1(1) 4 Inline Power Module WS-F6K-VPWR 1.0 1.1(1) 5 L3 Switching Engine III WS-F6K-  
PFC3B SAL1012GREU 2.1  
Access2> (enable)
```

2. Uitvoer van versie tonen:

```
Access2> (enable) show version
```

```
WS-C6509 Software, Version NmpSW: 8.5(8)
```

Copyright (c) 1995-2006 by Cisco Systems
NMP S/W compiled on Dec 1 2006, 23:03:43

System Bootstrap Version: 12.2
System Boot Image File is '**bootdisk:cat6000-sup32pfc3k8.8-5-8.bin**'
System Configuration register is 0x2102

Hardware Version: 2.0 Model: WS-C6509 Serial #: SCA034500F5

PS1 Module: WS-CAC-6000W Serial #: AZS10130G7T

Mod	Port	Model	Serial #	Versions
2	48	WS-X6248-RJ-45	SAD03431007	Hw : 1.1 Fw : 4.2(0.24)VAI78 Sw : 8.5(8)
3	48	WS-X6348-RJ-45	SAD04150A2T	Hw : 1.1 Fw : 5.3(1) Sw : 8.5(8)
		WS-F6K-VPWR		Hw : 1.0 Sw : 1.1(1)
4	48	WS-X6348-RJ-45	SAD05070CNX	Hw : 2.0 Fw : 5.4(2) Sw : 8.5(8)
		WS-F6K-VPWR		Hw : 1.0 Sw : 1.1(1)
5	9	WS-SUP32-GE-3B	SAL1010F8KG	Hw : 4.2 Fw : 12.2 Fw1: 8.5(8) Sw : 8.5(8) Sw1: 8.5(8)
		WS-F6K-PFC3B	SAL1012GREU	Hw : 2.1 Sw :
7	5	WS-SVC-CMM	SAD100707YJ	Hw : 2.8 Fw : 12.4(7a), Sw : 12.4(7a),
15	1	WS-F6K-MSFC2A	SAL1012GG1X	Hw : 3.0 Fw : 12.2(18)SXF7 Sw : 12.2(18)SXF7

Module	DRAM			FLASH			NVRAM		
	Total	Used	Free	Total	Used	Free	Total	Used	Free
5	262144K	124421K	137723K	249772K	9796K	239976K	2048K	366K	1682K

Uptime is 0 day, 0 hour, 3 minutes
Access2> (enable)

3. Opstartvariabele:

```
!--- Current working directory Access2> (enable) pwd bootdisk !--- Files in the bootdisk  
Access2> (enable) dir 2 -rw- 10029260 Dec 13 2006 15:37:08 cat6000-sup32pfc3k8.8-5-8.bin  
245735424 bytes available (10031104 bytes used) !--- Boot variable Access2> (enable) show  
boot  
BOOT variable = bootdisk:cat6000-sup32pfc3k8.8-5-8.bin,1;  
CONFIG_FILE variable = bootflash:switch.cfg
```

Configuration register is 0x2102
ignore-config: disabled
auto-config: non-recurring, overwrite, sync disabled
ROMMON console baud: 9600
boot: image specified by the boot system commands

Image auto sync is enabled


```

2007 May 21 20:27:25 %SYS-3-TRANSCEIVER_NOTSUPP: Transceiver on port 6/1 is not
supported
2007 May 21 20:27:25 %SYS-3-TRANSCEIVER_NOTSUPP: Transceiver on port 6/2 is not
supported
2007 May 21 20:27:25 %SYS-5-PORT_SSUPOK:Ports on standby supervisor (module 6) a
re up
2007 May 21 20:27:25 %SYS-3-MOD_PORTINTFINSYNC:Port Interface in sync for Module
6
2007 May 21 20:28:24 %SYS-5-SUP_IMGSYNSTART:Active supervisor
is synchronizing bootdisk:cat6000-sup32pfc3k8.8-5-8.bin
2007 May 21 20:28:25 %SYS-5-SUP_IMGSYNCFINISH:Active supervisor has synchronized
bootdisk:cat6000-sup32pfc3k8.8-5-8.bin

```

```
Access2> (enable)
```

```
Access2> (enable) dir
      2  -rw-  10029260      Dec 13 2006 15:37:08 cat6000-sup32pfc3k8.8-5-8.bin
```

```
245735424 bytes available (10031104 bytes used)
```

```
Access2> (enable) dir 6/
      2  -rw-   9356096      May 11 2006 19:04:09 cat6000-sup32pfc3k8.8-4-5.bin
     2287  -rw-  10029260      May 21 2007 20:24:10 RTSYNC_cat6000-sup32pfc3k8.8-5-
8.bin
```

```
!--- You can see the copied CatOS name starts with RTSYNC_ 236900352 bytes available
(19390464 bytes used) Access2> (enable) show system highavailability
Highavailability: enabled
Highavailability versioning: disabled
Highavailability Operational-status: ON
```

[Controleer de Supervisor Module nadat u de nieuwe Supervisor Module hebt toegevoegd](#)

Volg deze stappen:

1. Module uitvoer weergeven:

```
Access2> (enable) show module
```

Mod	Slot	Ports	Module-Type	Model	Sub	Status
1	1	0	1000BaseX Ethernet		no	power-down
2	2	48	10/100BaseTX Ethernet	WS-X6248-RJ-45	no	ok
3	3	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes	ok
4	4	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes	ok
5	5	9	1000BaseX Supervisor	WS-SUP32-GE-3B	yes	ok
15	5	1	Multilayer Switch Feature	WS-F6K-MSFC2A	no	ok
6	6	9	1000BaseX Supervisor	WS-SUP32-GE-3B	yes	standby
7	7	5	Communication Media Mod.	WS-SVC-CMM	no	ok
8	8	0	FXS		no	power-down
9	9	0	10/100BaseTX Ethernet		no	power-down

```
!--- Output suppressed Mod Sub-Type Sub-Model Sub-Serial Sub-Hw Sub-Sw ---
-----
----- 3 Inline Power Module WS-F6K-VPWR 1.0
1.1(1) 4 Inline Power Module WS-F6K-VPWR 1.0 1.1(1) 5 L3 Switching Engine III WS-F6K-
PFC3B SAL1012GREU 2.1
6 L3 Switching Engine III WS-F6K-PFC3B SAL1017L9WJ 2.1
```

2. Controleer de redundantie-geschiedenis:

```
Access2> (enable) show system redundancy-history
Maximum entries of switchover history table = 10
System cold start due to switchover failure = 4
```

Standby available time (secs*100) = 33291

Redundant History Switchover Table:

Controleer de MSFC IOS

CatOS wordt automatisch gekopieerd tijdens het SYNC-proces. IOS op de MSFC wordt echter niet automatisch gekopieerd.

1. Controleer IOS en redundantie van de MSFC:

```
!--- 1. Connect to MSFC Access2> (enable) session 15
```

```
Trying Router-15...
```

```
Connected to Router-15.
```

```
Escape character is '^]'.  
  
LAB-Router>enable
```

```
!--- 2. Verify the IOS file in the bootflash LAB-Router#dir
```

```
Directory of bootflash:/
```

```
1 -rwx 17966324 Dec 13 2006 15:12:29 +00:00 c6msfc2a-adventerprisek9_wan-mz.122-18.SXF7.bin
```

```
65536000 bytes total (47569548 bytes free)
```

```
!--- 3. Show version output LAB-Router#show version
```

```
Cisco Internetwork Operating System Software
```

```
IOS (tm) MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M), Version 12.2(18)SXF7, RELEASE SOFTWARE (fc1)
```

```
Technical Support: http://www.cisco.com/techsupport
```

```
Copyright (c) 1986-2006 by cisco Systems, Inc.
```

```
Compiled Thu 23-Nov-06 01:03 by kellythw
```

```
Image text-base: 0x40101040, data-base: 0x42638000
```

```
ROM: System Bootstrap, Version 12.2(17r)SX3, RELEASE SOFTWARE (fc1)
```

```
BOOTLDR: MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M), Version 12.2(18)SXF7, RELEASE SOFTWARE (fc1)
```

```
LAB-Router uptime is 26 minutes
```

```
System returned to ROM by power-on
```

```
System image file is "bootflash:c6msfc2a-adventerprisek9_wan-mz.122-18.SXF7.bin"
```

```
!--- 4. MSFC redundancy status LAB-Router#show redundancy
```

```
Redundant System Information :
```

```
-----
```

```
Available system uptime = 4 minutes
```

```
Switchovers system experienced = 0
```

```
Standby failures = 0
```

```
Last switchover reason = unsupported
```

```
Hardware Mode = Duplex
```

```
Configured Redundancy Mode = Stateful SwitchOver - SSO
```

```
Operating Redundancy Mode = Route Processor Redundancy
```

```
!--- It is running in the RPR mode because the standby MSFC !--- is running different version of IOS. Maintenance Mode = Disabled Communications = Up Current Processor
```

```
Information : ----- Active Location = slot 5
```

```
Current Software state = ACTIVE
```

```
Uptime in current state = 4 minutes
```

```
Image Version = Cisco Internetwork Operating System Software
```

```
IOS (tm) MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M),
```

```
Version 12.2(18)SXF7, RELEASE SOFTWARE (fc1)
```



```
process will start
in 120 seconds
2007 May 21 21:16:03 %DIAG-6-RUN_MINIMUM:Module 6: Running Minimal
Diagnostics..
.
2007 May 21 21:16:05 %DIAG-6-DIAG_OK:Module 6: Passed Online Diagnostics
2007 May 21 21:16:06 %SYS-3-TRANSCEIVER_NOTSUPP:
Transceiver on port 6/1 is not supported
2007 May 21 21:16:06 %SYS-3-TRANSCEIVER_NOTSUPP:
Transceiver on port 6/2 is not supported
2007 May 21 21:16:06 %SYS-5-PORT_SSUPOK:Ports on standby supervisor
(module 6) are up
2007 May 21 21:16:07 %SYS-3-MOD_PORTINTFINSYNC:Port Interface in
sync for Module
6
2007 May 21 21:16:49 %SYS-1-SYS_LCPERR1:Module 16: RP requeste
d reset of peer RP: MSFC on module 16 will be reset
```

```
Access2> (enable) show system highavailability
Highavailability: enabled
Highavailability versioning: disabled
Highavailability Operational-status: ON
Access2> (enable)
```

3. Controleer MSFC IOS na de upgrade:

```
Access2> (enable) session 15
Trying Router-15...
Connected to Router-15.
Escape character is '^]'.

LAB-Router>enable
```

```
LAB-Router#show redundancy
Redundant System Information :
```

```
-----
Available system uptime = 17 minutes
Switchovers system experienced = 0
Standby failures = 1
Last switchover reason = unsupported
```

```
Hardware Mode = Duplex
Configured Redundancy Mode = Stateful SwitchOver - SSO
Operating Redundancy Mode = Stateful SwitchOver - SSO
Maintenance Mode = Disabled
Communications = Up
```

```
Current Processor Information :
```

```
-----
Active Location = slot 5
Current Software state = ACTIVE
Uptime in current state = 17 minutes
Image Version = Cisco Internetwork Operating System Software
IOS (tm) MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M),
Version 12.2(18)SXF7, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by cisco Systems, Inc.
Compiled Thu 23-Nov-06 01:03 by kellythw
BOOT =
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102
```

```
Peer Processor Information :
```


**This module is now in standby mode.
Console is disabled for standby supervisor**

2. Console in supervisor 6, wat nu de actieve module is. Status redundantie:

```
Access2> (enable) show system highavailability  
Highavailability: enabled  
Highavailability versioning: disabled  
Highavailability Operational-status: ON
```

```
Access2> (enable) show system redundancy-history  
Maximum entries of switchover history table = 10  
System cold start due to switchover failure = 4  
Standby available time (secs*100) = 98984
```

Redundant History Switchover Table:

```
Index: 1  
Previous active supervisor module: 5  
Current active supervisor module : 6  
Switchover reason : user initiated  
Switchover time : Mon May 21 2007, 20:40:37
```

Versie weergeven:

```
Access2> (enable) show version  
WS-C6509 Software, Version NmpSW: 8.5(8)  
Copyright (c) 1995-2006 by Cisco Systems  
NMP S/W compiled on Dec 1 2006, 23:03:43
```

```
System Bootstrap Version: 12.2  
System Boot Image File is 'bootdisk:RTSYNC_cat6000-sup32pfc3k8.8-5-8.bin'  
System Configuration register is 0x2102
```

Opstartvariabele:

```
Access2> (enable) show boot  
BOOT variable = bootdisk:RTSYNC_cat6000-sup32pfc3k8.8-5-8.bin,1;bootdisk:cat6000  
-sup32pfc3k8.8-4-5.bin,1;  
CONFIG_FILE variable = bootdisk:switch.cfg
```

```
Configuration register is 0x2102  
ignore-config: disabled  
auto-config: non-recurring, overwrite, sync disabled  
ROMMON console baud: 9600  
boot: image specified by the boot system commands
```

```
Image auto sync is enabled  
Image auto sync timer is 120 seconds
```

Module tonen:

```
Access2> (enable) show module
```

Mod	Slot	Ports	Module-Type	Model	Sub Status
1	1		Unknown Card		power-down
2	2	48	10/100BaseTX Ethernet	WS-X6248-RJ-45	no ok
3	3	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes ok
4	4	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes ok
5	5	9	1000BaseX Supervisor	WS-SUP32-GE-3B	yes standby
6	6	9	1000BaseX Supervisor	WS-SUP32-GE-3B	yes ok
16	6	1	Multilayer Switch Feature	WS-F6K-MSFC2A	no ok
7	7	5	Communication Media Mod.	WS-SVC-CMM	no ok
8	8	0	FXS		no power-down
9	9		Unknown Card		power-down

```
!--- Output suppressed Mod Sub-Type Sub-Model Sub-Serial Sub-Hw Sub-Sw --- -----  
-----  
1.1(1) 4 Inline Power Module WS-F6K-VPWR 1.0 1.1(1) 5 L3 Switching Engine III WS-F6K-
```

PFC3B **SAL1012GREU 2.1**
6 **L3 Switching Engine III WS-F6K-PFC3B** **SAL1017L9WJ 2.1**

Access2> (enable)

3. Controleer MSFC:

Access2> (enable) session 16
Trying Router-16...
Connected to Router-16.
Escape character is '^]'.

LAB-Router>enable

LAB-Router#**show version**

Cisco Internetwork Operating System Software
IOS (tm) MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M),
Version 12.2(18)SXF7, RELEASE SOFTWARE (fc1)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2006 by cisco Systems, Inc.
Compiled Thu 23-Nov-06 01:03 by kellythw
Image text-base: 0x40101040, data-base: 0x42638000

ROM: System Bootstrap, Version 12.2(17r)SX3, RELEASE SOFTWARE (fc1)
BOOTLDR: MSFC2A Software (C6MSFC2A-ADVENTERPRISEK9_WAN-M), Version 12.2(18)SXF7,
RELEASE SOFTWARE (fc1)

LAB-Router uptime is 7 minutes
System returned to ROM by Stateful Switchover
System image file is "**bootflash:c6msfc2a-adventerprisek9_wan-mz.122-18.SXF7.bin**"

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/wvl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

cisco MSFC2A (R7000) processor (revision MSFC2A) with 458752K/65536K bytes of memory.

Processor board ID MSFC2A

R7000 CPU at 300Mhz, Implementation 0x27, Rev 3.3, 256KB L2, 1024KB L3 Cache

Last reset from power-on

SuperLAT software (copyright 1990 by Meridian Technology Corp).

X.25 software, Version 3.0.0.

Bridging software.

TN3270 Emulation software.

29 Virtual Ethernet/IEEE 802.3 interfaces

509K bytes of non-volatile configuration memory.

65536K bytes of Flash internal SIMM (Sector size 512K).

Configuration register is 0x2102

[Hernoemen van Catalyst OS](#)

U kunt zien dat de CatOS naam in de vervangen supervisor module begint met RTSYNC. U kunt

het systeem laten draaien zoals het is. U kunt de bestandsnaam ook wijzigen en deze als een standaardnaam bewaren, zoals hier wordt weergegeven:

```
Access2> (enable) rename RTSYNC_cat6000-sup32pfc3k8.8-5-8.bin  
cat6000-sup32pfc3k 8.8-5-8.bin  
Access2> (enable) dir  
    2287   -rw-  10029260   May 21 2007 21:40:01 cat6000-sup32pfc3k8.8-5-8.bin
```

236900352 bytes available (19390464 bytes used)

```
Access2> (enable)
```

Nadat u het bestand een andere naam heeft gegeven, moet u de variabele voor het starten wijzigen.

```
!--- Verify boot variable Access2> (enable) show boot  
BOOT variable = bootdisk:RTSYNC_cat6000-sup32pfc3k8.8-5-8.bin,1;bootdisk:cat6000  
-sup32pfc3k8.8-4-5.bin,1;  
CONFIG_FILE variable = bootdisk:switch.cfg
```

```
Configuration register is 0x2102  
ignore-config: disabled  
auto-config: non-recurring, overwrite, sync disabled  
ROMMON console baud: 9600  
boot: image specified by the boot system commands
```

```
Image auto sync is enabled  
Image auto sync timer is 120 seconds
```

```
!--- Clear all the boot variables Access2> (enable) clear boot system all  
BOOT variable =  
Access2> (enable) 2007 May 21 21:41:56 %SYS-5-SUP_IMGSYNC:File synchronization p  
rocess will start in 120 seconds
```

```
!--- Configure the boot variable Access2> (enable) set boot system flash bootdisk:cat6000-  
sup32pfc3k8.8-5-8.bin  
BOOT variable = bootdisk:cat6000-sup32pfc3k8.8-5-8.bin,1;  
Access2> (enable) 2007 May 21 21:42:14 %SYS-5-SUP_IMGSYNC:File synchronization p  
rocess will start in 120 seconds
```

```
!--- Verify the boot variable Access2> (enable) show boot  
BOOT variable = bootdisk:cat6000-sup32pfc3k8.8-5-8.bin,1;  
CONFIG_FILE variable = bootdisk:switch.cfg
```

```
Configuration register is 0x2102  
ignore-config: disabled  
auto-config: non-recurring, overwrite, sync disabled  
ROMMON console baud: 9600  
boot: image specified by the boot system commands
```

```
Image auto sync is enabled  
Image auto sync timer is 120 seconds
```

[Gerelateerde informatie](#)

- [Catalyst 6000/6500 Series switches met Redundant Supervisor Engine Software Image Upgrade](#)
- [Cisco Catalyst 6500 Series-switches - Ondersteuningsdocumenten](#)
- [Productondersteuningspagina's voor LAN](#)

- [Ondersteuningspagina voor LAN-switching](#)
- [Technische ondersteuning en documentatie – Cisco Systems](#)