

Reemplace un módulo de supervisor redundante fallido en los switches Catalyst serie 6500 que ejecutan CatOS (híbrido)

Contenido

[Introducción](#)

[Prerequisites](#)

[Requirements](#)

[Componentes Utilizados](#)

[Productos Relacionados](#)

[Convenciones](#)

[Antecedentes](#)

[Procedimiento Paso a Paso para Reemplazar el Módulo Supervisor - Mismo SO Híbrido](#)

[Procedimiento paso a paso para reemplazar el módulo supervisor - diferente sistema operativo híbrido](#)

[Verifique antes de agregar el nuevo módulo de supervisor](#)

[Agregar el nuevo módulo supervisor](#)

[Verifique el Módulo Supervisor después de agregar el Nuevo Módulo Supervisor](#)

[Verifique el IOS MSFC](#)

[Conmutación por fallas a Supervisor en Espera y Verificación](#)

[Cambiar el nombre del Catalyst OS](#)

[Información Relacionada](#)

[Introducción](#)

Este documento muestra cómo sustituir un módulo de supervisor redundante fallido en los switches Catalyst 6500 Series. Este documento explica el procedimiento para los módulos de supervisor que se ejecutan en código abierto híbrido.

[Prerequisites](#)

[Requirements](#)

Cisco recomienda que tenga conocimiento sobre estos temas:

- [Redundancia de configuración](#)
- [Configuración de NSF con Redundancia MSFC SSO](#)

[Componentes Utilizados](#)

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Switch Cisco Catalyst serie 6500
- Módulo supervisor: WS-SUP32-GE-3B
- SO híbrido: Catalyst OS (CatOS) 8.5(8)MSFC IOS® 12.2(18)SXF7

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

[Productos Relacionados](#)

Este documento también puede utilizarse con estas versiones de software y hardware:

- Supervisor 720 que ejecuta el sistema operativo híbrido
- Supervisor 2 que ejecuta el sistema operativo híbrido

[Convenciones](#)

Consulte [Convenciones de Consejos Técnicos Cisco para obtener más información sobre las convenciones del documento.](#)

[Antecedentes](#)

Estos son algunos de los puntos importantes relacionados con los módulos de supervisor redundantes:

- En el motor supervisor en espera, el puerto de la consola está inactivo, el estado del módulo se muestra como "en espera" y el estado de los puertos de link ascendente se muestra normalmente.
- Para permitirle controlar el arranque de cada Supervisor Engine por separado, los registros de configuración no se sincronizan entre los Supervisor Engines.
- Si las versiones de software de los dos motores supervisores son diferentes, o si la configuración NVRAM de los dos motores supervisores es diferente, el motor supervisor activo descarga automáticamente su imagen y configuración de software al motor supervisor en espera.
- Los motores supervisores utilizan dos imágenes flash: la imagen de inicio y la imagen en tiempo de ejecución. El nombre de archivo de la imagen de inicio, que se especifica en la variable de entorno BOOT, se almacena en NVRAM. La imagen en tiempo de ejecución es la imagen de inicio que utiliza el monitor ROM para iniciar el motor supervisor. Una vez que se inicia el sistema, la imagen en tiempo de ejecución reside en la RAM dinámica (DRAM).
- Los motores supervisores redundantes deben ser del mismo tipo con la misma tarjeta de función de modelo. Los modelos WS-X6K-SUP1-2GE y WS-X6K-SUP1A-2GE, que carecen de tarjetas de función de políticas (PFC), son compatibles con la redundancia. Para los motores supervisores con PFC, los PFC deben ser idénticos para la redundancia (dos PFC, dos PFC2, dos PFC3A, dos PFC3Bs o dos PFC3BXL).


```

%SYS-5-SUP_IMGSYNC:File synchronization process will start in 120 seconds

%DIAG-6-RUN_MINIMUM:Module 6: Running Minimal Diagnostics...

%DIAG-6-DIAG_OK:Module 6: Passed Online Diagnostics

%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_IMGSYNCSTART: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. Verifique el estado de redundancia del supervisor:

```

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

```

3. Verifique el estado de redundancia de MSFC:

```

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 :
```

```
-----
```



```

NVRAM Size .....2048 KB
Level2 Cache .....Present
Level3 Cache .....Absent
System Power On Diagnostics Complete

Currently running ROMMON from S (Gold) region
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. Conéctese al Supervisor 6 y verifique la configuración del supervisor y MSFC.

Procedimiento paso a paso para reemplazar el módulo supervisor - diferente sistema operativo híbrido

Esta sección explica el procedimiento paso a paso para reemplazar el Supervisor Module 32 en un Catalyst 6500 Series Switch. Este ejemplo utiliza un switch Cisco Catalyst 6509 que tiene dos módulos de supervisor en las ranuras 5 y 6. El módulo supervisor en la ranura 6 ha fallado. Se supone que el módulo supervisor fallido en la ranura 6 se quita del chasis. Puede ver el procedimiento para agregar el nuevo módulo supervisor en la ranura 6.

Si no tiene la opción de actualizar el nuevo Supervisor Hybrid OS a la misma versión que el supervisor activo, puede realizar este procedimiento para agregar el módulo supervisor y sincronizar el Hybrid OS y la configuración del switch. La mayor parte del procedimiento está automatizado. Este documento muestra el proceso paso a paso y la lista de verificación que se realizará durante el reemplazo del supervisor.

Verifique antes de agregar el nuevo módulo de supervisor

Esta sección muestra el resultado show del switch sin el supervisor en la ranura 6.

- Show module
- show version
- Variable de arranque

1. Mostrar salida del módulo:

```
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. Mostrar salida de versión:

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. Variable de arranque:

```
!--- 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


```

in 120 seconds
2007 May 21 20:27:08 %SYS-1-SYS_LCPERR1:Module 16: RP requested reset of peer RP
: MSFC on module 16 will be reset
2007 May 21 20:27:24 %DIAG-6-RUN_MINIMUM:Module 6: Running Minimal Diagnostics..
.
2007 May 21 20:27:24 %DIAG-6-DIAG_OK:Module 6: Passed Online Diagnostics
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_IMGSYNCSTART: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
```

[Verifique el Módulo Supervisor después de agregar el Nuevo Módulo Supervisor](#)

Siga estos pasos:

1. Mostrar salida del módulo:

```

Access2> (enable) show module
Mod Slot Ports Module-Type Model Sub Status
--- --- ---
1 1 0 1000BaseX Ethernet WS-X6248-RJ-45 no power-down
2 2 48 10/100BaseTX Ethernet WS-X6348-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. Verificar el historial de redundancia:

```
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:

Verifique el IOS MSFC

El CatOS se copia automáticamente durante el proceso SYNC. Sin embargo, el IOS en la MSFC no se copia automáticamente.

1. Verifique el IOS y la redundancia de la 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_w  
an-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)
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 :
-----
```

```

Standby Location = slot 6
Current Software state = STANDBY COLD
Uptime in current state = 2 minutes
Image Version = Cisco Internetwork Operating System Software
IOS (tm) MSFC2A Software (C6MSFC2A-IPBASE_WAN-M),
Version 12.2(18)SXF4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2006 by cisco Systems, Inc.
Compiled Thu 23-Mar-06 14:53 by tinhuang
BOOT =
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102

```

!--- Note that the boot variable is blank. The MSFC boots the !--- first IOS image in the bootflash: LAB-Router# LAB-Router#**exit**

```
Access2> (enable)
```

2. Actualice el IOS en el MSFC en espera. Copie la imagen del IOS a la MSFC en espera:

```

LAB-Router#copy c6msfc2a-adventerprisek9_wan-mz.122-18.SXF7.bin slavebootflash:/
Destination filename [c6msfc2a-adventerprisek9_wan-mz.122-18.SXF7.bin]?
Copy in progress...CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
17966324 bytes copied in 44.180 secs (406662 bytes/sec)
LAB-Router#

```

!--- Delete the old IOS image. Because the boot variable is blank !--- and the MSFC boots the first IOS image in the bootflash: LAB-Router#**cd slavebootflash:**

```

LAB-Router#delete c6msfc2a-ipbase_wan-mz.122-18.SXF4.bin
Delete filename [c6msfc2a-ipbase_wan-mz.122-18.SXF4.bin]?
Delete slavebootflash:c6msfc2a-ipbase_wan-mz.122-18.SXF4.bin? [confirm]
LAB-Router#

```

Recargue el módulo supervisor en espera:

```
LAB-Router#exit
```

```

Access2> (enable) reset 6
This command will reset module 6.
Do you want to continue (y/n) [n]? y
2007 May 21 21:14:03 %SYS-5-MOD_RESET:Module 6 reset from Console//
Resetting module 6...

```

```

Access2> (enable) show system highavailability
Highavailability: enabled
Highavailability versioning: disabled
Highavailability Operational-status: OFF(standby-supervisor-not-present)
Access2> (enable)

```

```

2007 May 21 21:16:01 %SYS-5-SUP_MODSBY:Module 6 is in standby
mode
2007 May 21 21:16:02 %SYS-5-SUP_IMGSYNC:File synchronization
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. Verifique el IOS MSFC después de la actualización:

```

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 =

```


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**

2. Conéctese al Supervisor 6, que es ahora el módulo activo.Estado de redundancia:

```
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
```

Mostrar versión:

```
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
```

Variable de arranque:

```
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
```

Show module:

```
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 --- -----
----- 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
Access2> (enable)
```

3. Verifique el 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/wwl/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 me
mory.

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

[Cambiar el nombre del Catalyst OS](#)

Puede ver que el nombre de CatOS en el módulo supervisor reemplazado comienza con RTSYNC. Puede dejar el sistema para que se ejecute tal cual. También puede cambiar el nombre del archivo y conservarlo como un nombre estándar, como se muestra aquí:

```
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)
```

Después de cambiar el nombre del archivo, debe cambiar la variable de inicio.

```
!--- 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
```

[Información Relacionada](#)

- [Ejemplo de Configuración de Actualización de Imagen de Catalyst 6000/6500 Series Switches con Supervisor Engines Redundantes Software](#)

- [Switches Catalyst de Cisco serie 6500 - Documentos de soporte](#)
- [Páginas de Soporte de Productos de LAN](#)
- [Página de Soporte de LAN Switching](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)