

Sostituire un modulo Supervisor ridondante guasto sugli switch Catalyst serie 6500 con CatOS (ibrido)

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[Introduzione](#)

In questo documento viene spiegato come sostituire un modulo supervisor ridondante guasto sugli switch Catalyst serie 6500. Questo documento spiega la procedura per i moduli supervisor che vengono eseguiti nel sistema operativo ibrido.

[Prerequisiti](#)

[Requisiti](#)

Cisco raccomanda la conoscenza dei seguenti argomenti:

- [Configurazione della ridondanza](#)
- [Configurazione di NSF con ridondanza MSFC SSO](#)

[Componenti usati](#)

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- Cisco Catalyst serie 6500 Switch
- Modulo supervisor: WS-SUP32-GE-3B
- Sistema operativo ibrido: Catalyst OS (CatOS) 8.5(8)MSFC IOS® 12.2(18)SXF7

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

[Prodotti correlati](#)

Il presente documento può essere utilizzato anche per le seguenti versioni hardware e software:

- Supervisor 720 con sistema operativo ibrido
- Supervisor 2 con sistema operativo ibrido

[Convenzioni](#)

Per ulteriori informazioni sulle convenzioni usate, consultare il documento [Cisco sulle convenzioni nei suggerimenti tecnici](#).

[Premesse](#)

Questi sono alcuni punti importanti relativi ai moduli supervisor ridondanti:

- Sul supervisor engine di standby, la porta della console è inattiva, lo stato del modulo viene visualizzato come "standby" e lo stato delle porte di uplink viene visualizzato normalmente.
- Per consentire il controllo separato dell'avvio di ciascun supervisor engine, i registri di configurazione non sono sincronizzati tra i supervisor engine.
- Se le versioni software dei due supervisor engine sono diverse, o se la configurazione NVRAM dei due supervisor engine è diversa, il supervisor engine attivo scarica automaticamente l'immagine software e la configurazione sul supervisor engine di standby.
- I supervisor engine utilizzano due immagini flash: l'immagine di avvio e l'immagine di runtime. Il nome del file dell'immagine di avvio, specificato nella variabile di ambiente BOOT, è archiviato nella NVRAM. L'immagine runtime è l'immagine di avvio usata dal ROM monitor per avviare il supervisor engine. Una volta avviato il sistema, l'immagine in fase di runtime risiede nella RAM dinamica (DRAM).
- I supervisor engine ridondanti devono essere dello stesso tipo e avere la stessa scheda feature del modello. I modelli WS-X6K-SUP1-2GE e WS-X6K-SUP1A-2GE, entrambi privi di PFC (Policy Feature Card), sono compatibili per la ridondanza. Per i supervisor engine con PFC, i PFC devono essere identici per la ridondanza (due PFC, due PFC2, due PFC3A, due PFC3B o due PFC3BXL).

[Procedura dettagliata per la sostituzione del modulo Supervisor - stesso sistema operativo ibrido](#)


```

%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. Verificare lo stato di ridondanza del supervisore:

```

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

```

3. Verificare lo stato di ridondanza 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 :
```

```
-----
```

```
    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),
```



```
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. Collegare la console al Supervisor 6 e verificare la configurazione di supervisor e MSFC.

Procedura dettagliata per la sostituzione del modulo Supervisor - sistema operativo ibrido diverso

In questa sezione viene illustrata la procedura dettagliata per sostituire il Supervisor Module 32 in uno switch Catalyst serie 6500. In questo esempio viene usato uno switch Cisco Catalyst 6509 con due supervisor module nello slot 5 e 6. Si è verificato un errore nel supervisor module nello slot 6. Si presume che il supervisor module guasto nello slot 6 sia rimosso dallo chassis. È possibile vedere la procedura per aggiungere il nuovo modulo supervisor nello slot 6.

Se non si dispone dell'opzione per aggiornare il nuovo supervisor hybrid OS alla stessa versione del supervisor attivo, è possibile eseguire questa procedura per aggiungere il supervisor module e sincronizzare il sistema operativo ibrido e la configurazione dello switch. La maggior parte della procedura è automatizzata. In questo documento viene illustrata la procedura dettagliata e l'elenco di controllo da eseguire durante la sostituzione del supervisore.

Verificare prima di aggiungere il nuovo modulo Supervisor

Questa sezione mostra l'output del comando show dello switch senza il supervisore nello slot 6.

- Mostra modulo
- Show version
- Variabile di avvio

1. Mostra output modulo:

```
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) 5 L3 Switching Engine III WS-F6K-
PFC3B SAL1012GREU 2.1
Access2> (enable)
```

2. Mostra output versione:

```
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. Variabile di avvio:

```
!--- 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


```

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_IMGSYNCSH: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
```

[Verificare il modulo Supervisor dopo aver aggiunto il nuovo modulo Supervisor](#)

Attendersi alla procedura seguente:

1. Mostra output modulo:

```
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. Verificare la cronologia di ridondanza:

```
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:

Verifica dell'MSFC IOS

Il software CatOs viene copiato automaticamente durante il processo SYNC. Tuttavia, IOS sull'MSFC non viene copiato automaticamente.

1. Verificare il sistema operativo IOS e la ridondanza dell'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. Verificare l'MSFC IOS dopo l'aggiornamento:

```
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. Collegare la console al Supervisor 6, che è il modulo attivo. Stato ridondanza:

```
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
```

Show version:

```
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
```

Variabile di avvio:

```
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
```

Mostra modulo:

```
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. Verificare l'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
```

[Rinominare il sistema operativo Catalyst](#)

Si noti che il nome CatOS nel modulo supervisor sostituito inizia con RTSYNC. È possibile

lasciare il sistema in funzione. È inoltre possibile modificare il nome del file e mantenerlo come nome standard, come illustrato di seguito:

```
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)
```

Dopo aver rinominato il file, è necessario modificare la variabile di avvio.

```
!--- 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
```

[Informazioni correlate](#)

- [Esempio di configurazione dell'aggiornamento dell'immagine software degli switch Catalyst serie 6000/6500 con Supervisor Engine ridondante](#)
- [Switch Cisco Catalyst serie 6500 - Documenti di supporto](#)
- [Pagine di supporto dei prodotti LAN](#)
- [Pagina di supporto dello switching LAN](#)

- [Documentazione e supporto tecnico – Cisco Systems](#)