

# Aggiornamento del firmware dei telefoni IP con CCME

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## [Introduzione](#)

In questo documento viene spiegato come aggiornare il firmware di Cisco IP Phone con Cisco CallManager Express.

## [Prerequisiti](#)

### [Requisiti](#)

Prima di provare questa configurazione, accertarsi di soddisfare i seguenti requisiti:

- I telefoni IP Cisco sono attualmente registrati con Cisco CallManager Express.

### [Componenti usati](#)

Le informazioni di questo documento si basano sulle seguenti versioni software e hardware, ma sono valide per tutte le versioni Cisco CallManager Express e i carichi di telefoni IP Cisco:

- Cisco IOS? Router su Cisco IOS? Versione 12.4(4)T con Cisco CallManager Express versione 3.4(0)
- Cisco IP Phone 7960

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.

## [Convenzioni](#)

Fare riferimento a [Cisco Technical Tips Conventions per ulteriori informazioni sulle convenzioni dei documenti](#).

## [Premesse](#)

### [Immagini firmate e non firmate \(autenticazione immagine\)](#)

I due tipi di immagine utilizzati sui Cisco IP Phone 7960 e 7940 sono: immagini firmate e non firmate. L'autenticazione dell'immagine viene eseguita tramite file binari firmati. Le immagini firmate hanno l'estensione .sbn, mentre le immagini non firmate hanno l'estensione .bin.

Le versioni delle immagini precedenti alla 5.x accettano file binari non firmati. Le versioni 5.x e successive delle immagini accettano solo file binari firmati, il che migliora la sicurezza su Cisco IP Phone 7960 e 7940. Tuttavia, l'utilizzo di file binari firmati non consente di tornare a un'immagine firmware precedente non firmata. Una volta installata l'immagine del firmware versione 5.0, indipendentemente dal protocollo, l'immagine non può essere sostituita con una versione precedente. L'immagine del firmware può essere sostituita solo con un'altra immagine firmata versione 5.x o successive. Tutte le versioni precedenti alla 5.0 per Cisco IP Phone 7960 e 7940 non vengono caricate sul telefono dopo l'installazione.

## [Configurazione](#)

In questa sezione vengono presentate le informazioni necessarie per aggiornare il firmware dei telefoni IP Cisco.

## [Download](#)

I file del firmware SCCP richiesti possono essere scaricati da [Cisco IP Phone serie FW 7900 \(NON SIP\) - Software Download](#) (solo utenti [registrati](#)). Scaricare il file .zip appropriato per il modello di telefono IP Cisco. A seconda del modello di telefono IP Cisco, il file .zip può contenere uno o più file.

Il file .zip della versione 7.2(3) del firmware per i telefoni IP Cisco 7960 e 7940, **cmterm-7940-7960-sccp.7-2-3.zip**, comprende i seguenti file:

- P00307020300.bin
- P00307020300.sbn
- P00307020300.sb2
- P00307020300.load

Analogamente, il file .zip del firmware per Cisco IP Phone modello 7905G, **cmterm-7905G-sccp.6-1-1**, include i seguenti file:

- CP7905060101SCCP050429A.sbin

- CP7905060101SCCP050429A.zup

## Configurazioni dettagliate

Per configurare il firmware appropriato, attenersi alla seguente procedura:

1. Trasferire tutti i file del firmware nella memoria flash di Cisco CallManager Express. Per verificare il trasferimento dei file, usare il comando **show flash**:

```
Router_CCME#show flash
```

```
-#- --length-- -----date/time----- path
```

```
!--- Part of output elided. 13 128996 Nov 30 2005 07:05:36 +00:00 P00307020300.bin 14  
129400 Nov 30 2005 07:06:02 +00:00 P00307020300.sbn 15 681290 Nov 30 2005 07:06:18 +00:00  
P00307020300.sb2 16 461 Nov 30 2005 07:06:34 +00:00 P00307020300.loads 24612864 bytes  
available (103567360 bytes used)
```

2. Rendi i file disponibili per il download sui telefoni IP Cisco con questa configurazione:

```
Router_CCME#configure terminal
```

```
Router_CCME(config)#tftp-server flash: P00307020300.bin
```

```
Router_CCME(config)#tftp-server flash: P00307020300.sbn
```

```
Router_CCME(config)#tftp-server flash: P00307020300.sb2
```

```
Router_CCME(config)#tftp-server flash: P00307020300.loads
```

3. Configurare il firmware appropriato per i telefoni IP Cisco:

```
Router_CCME#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Router_CCME(config)#telephony-service
```

```
Router_CCME(config-telephony)#load 7960-7940 P00307020300
```

```
Updating CNF files
```

```
CNF files updating complete
```

**Nota:** nel comando **load** non deve essere indicata l'estensione (.bin o .sbn) del file del firmware.

4. Ripristinare i telefoni IP Cisco in modo che scelgano la nuova versione del firmware. Se hai pianificato il downtime, ripristina tutti i telefoni contemporaneamente. È anche possibile reimpostare i telefoni singolarmente, in quanto gli utenti sono pronti.

```
Router_CCME(config-telephony)#reset ?
```

```
  H.H.H          mac address
```

```
  all            reset all ethernet phones
```

```
  cancel        cancel in progress reset
```

```
  sequence-all reset all ethernet phones sequentially, wait for each phone to  
re-register before resetting the next phone. This prevents  
possible conflict between phones when accessing IOS TFTP  
services.
```

```
Router_CCME(config-telephony)#reset all
```

```
Reset 1 phones: at 15 second interval - this could take several minutes p  
er phone
```

```
Starting with 7960 phones
```

```
Router_CCME(config-telephony)#
```

```
Reset-All: Requesting Reset for phone SEP000A8A93E0F9 at 172.16.2.101 deviceType  
7 Telecaster 7960 Idle [count=1]
```

```
*Nov 30 09:21:39.803 UTC: %IPPHONE-6-UNREGISTER_NORMAL: ephone-1:SEP000A8A93E0F9  
IP:172.16.2.101 Socket:1 DeviceType:Phone has unregistered normally.
```

```
Reset/Restart-all looking for phones registered as type 8 Telecaster 7940
```

```

Reset/Restart-all looking for phones registered as type 6 Telecaster 7910
Reset/Restart-all looking for phones registered as type 20000 7905
*Nov 30 09:21:53.803 UTC: %IPPHONE-6-REG_ALARM: 22: Name=SEP000A8A93E0F9 Load=7.
2(3.0) Last=Reset-Reset
*Nov 30 09:21:53.803 UTC: %IPPHONE-6-REGISTER: ephone-1:SEP000A8A93E0F9 IP:172.1
6.2.101 Socket:1 DeviceType:Phone has registered.
Reset/Restart-all looking for phones registered as type 30008 7902
Reset/Restart-all looking for phones registered as type 30007 7912
Reset/Restart-all looking for phones registered as type 30002 7920
Reset/Restart-all looking for phones registered as type 30016 CIPC
Reset/Restart-all looking for phones registered as type 30006 7970
Reset/Restart-all looking for phones registered as type 119 7971
Reset/Restart-all looking for phones registered as type 115 7941
Reset/Restart-all looking for phones registered as type 308 7961GE
Reset/Restart-all looking for phones registered as type 309 7941GE
Reset/Restart-all looking for phones registered as type 307 7911
Reset/Restart-all looking for phones registered as type 302 7985
Reset/Restart-all looking for phones registered as type 30018 7961
Reset/Restart-all looking for phones registered as type 30019 7936
Reset/Restart-all looking for phones registered as type 12 ATA Phone
Reset/Restart-all looking for phones registered as type 30027 SCCP Gateway (AN)
Reset/Restart-all looking for phones registered as type 30028 SCCP Gateway (BRI)

Reset/Restart-all looking for phones registered as type 9 7935
Reset/Restart-all looking for phones registered as type 1 30SP+
Reset/Restart-all looking for phones registered as type 2 12SP+
Reset/Restart-all looking for phones registered as type 3 12SP
Reset/Restart-all looking for phones registered as type 4 12
Reset/Restart-all looking for phones registered as type 5 30VIP
Reset/Restart-all looking for phones registered as type 80 Unity Voice Port
Reset/Restart-all looking for phones registered as type 21 Unity Voice Port
Reset/Restart-all looking for phones registered as type -1 Unknown -1
Reset-All issued for 1 phones
43 seconds (wait for last phone to re-register)

```

```

Router_CCME
Router_CCME#show ephone phone-load
DeviceName          CurrentPhoneload
PreviousPhoneload   LastReset
=====
=====
SEP000A8A93E0F9    7.2(3.0)                7.2(2.0)
Initialized

```

## Verifica

Per verificare che la configurazione funzioni correttamente, consultare questa sezione.

Utilizzare i seguenti comandi per verificare la configurazione:

- **show telephony-service all:** visualizza la configurazione dettagliata di tutti i telefoni IP, le porte vocali e i peer di composizione Cisco IOS del router del servizio di telefonia Cisco IOS.

```

Router_CCME#show telephony-service all
CONFIG [Version=3.4(0)]
=====
Version 3.4(0)
Cisco CallManager Express
For on-line documentation please see:
www.cisco.com/univercd/cc/td/doc/product/access/ip_ph/ip_ks/index.htm

```

```
ip source-address 172.16.2.211 port 2000
load 7960-7940 P00307020300
max-ephones 1
max-dn 1
max-conferences 8 gain -6
dspfarm units 0
dspfarm transcode sessions 0
hunt-group report delay 1 hours
max-redirect 5
time-format 12
date-format mm-dd-yy
timezone 0 Greenwich Standard Time
keepalive 30
timeout interdigit 10
timeout busy 10
timeout ringing 180
caller-id name-only: enable
edit DN through Web: disabled.
edit TIME through web: disabled.
Log (table parameters):
    max-size: 150
    retain-timer: 15
create cnf-files version-stamp Jan 01 2002 00:00:00
transfer-system full-consult
auto assign 1 to 1
local directory service: enabled.
```

```
ephone-dn 1
number 7001
preference 0 secondary 9
huntstop
call-waiting beep
```

Number of Configured ephones 1 (Registered 1)

```
ephone 1
mac-address 000A.8A93.E0F9
type 7960
button 1:1
!
```

```
voice-port 50/0/1
station-id number 7001
!
```

```
dial-peer voice 20011 pots
destination-pattern 7001$
huntstop
progress_ind setup enable 3
port 50/0/1
```

```
tftp-server system:/its/SEPDEFAULT.cnf
tftp-server system:/its/SEPDEFAULT.cnf alias SEPDefault.cnf
tftp-server system:/its/XMLDefault.cnf.xml alias XMLDefault.cnf.xml
tftp-server system:/its/ATADefault.cnf.xml
tftp-server system:/its/XMLDefault7960.cnf.xml alias SEP000A8A93E0F9.cnf.xml
tftp-server system:/its/united_states/7960-tones.xml alias United_States/7960-to
nes.xml
tftp-server system:/its/united_states/7960-font.xml alias English_United_States/
7960-font.xml
```

```
tftp-server system:/its/united_states/7960-dictionary.xml alias English_United_S
tates/7960-dictionary.xml
tftp-server system:/its/united_states/7960-kate.xml alias English_United_States/
7960-kate.xml
tftp-server system:/its/united_states/SCCP-dictionary.xml alias English_United_S
tates/SCCP-dictionary.xml
```

- **show telephone:** visualizza le informazioni sui telefoni IP Cisco registrati.

```
Router_CCME#show ephone
```

```
ephone-1 Mac:000A.8A93.E0F9 TCP socket:[1] activeLine:0 REGISTERED in SCCP ver 6
mediaActive:0 offhook:0 ringing:0 reset:0 reset_sent:0 paging 0 debug:1
IP:172.16.2.101 50230 Telecaster 7960 keepalive 5 max_line 6
button 1: dn 1 number 7001 CH1 IDLE
```

## Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

I seguenti comandi di debug consentono di identificare eventuali problemi nell'aggiornamento del firmware:

- **debug di eventi tftp**
- **debug telephone register**

Nell'esempio vengono mostrate le informazioni di debug generate quando un Cisco IP Phone 7960 viene aggiornato alla versione 7.2.2 del firmware:

```
*Nov 30 09:15:19.868 UTC: ephone-1[1]:UnregisterMessage after Reset/Restart sent
*Nov 30 09:15:19.868 UTC: ephone-1[1]:Phone Unregistered on socket [1] SEP000A8A
93E0F9
*Nov 30 09:15:19.868 UTC: ephone-1[1]:UnregisterAck sent on socket [1] (0/0/10)
*Nov 30 09:15:19.868 UTC: %IPPHONE-6-UNREGISTER_NORMAL: ephone-1:SEP000A8A93E0F9
IP:172.16.2.101 Socket:1 DeviceType:Phone has unregistered normally.
*Nov 30 09:15:19.868 UTC: skinny_server_process: Socket error. errno=0
*Nov 30 09:15:19.868 UTC: ephone-1[1]:DisAssociate: Closed socket 1 for unregist
ered phone
*Nov 30 09:15:19.868 UTC: CLOSED Skinny socket 1 for de-registered phone
*Nov 30 09:15:30.976 UTC: TFTP: Looking for CTLSEP000A8A93E0F9.tlv
*Nov 30 09:15:30.984 UTC: TFTP: Looking for SEP000A8A93E0F9.cnf.xml
*Nov 30 09:15:31.504 UTC: TFTP: Opened system:/its/XMLDefault7960.cnf.xml, fd 0,
size 788 for process 216
*Nov 30 09:15:31.508 UTC: TFTP: Finished system:/its/XMLDefault7960.cnf.xml, tim
e 00:00:00 for process 216
Reset sequence-all, Ready to reset next phone (last 15 sec)

Reset/Restart-all looking for phones registered as type 8 Telecaster 7940
*Nov 30 09:15:34.384 UTC: New Skinny socket accepted [1] (0 active)
*Nov 30 09:15:34.384 UTC: sin_family 2, sin_port 50230, in_addr 172.16.2.101
*Nov 30 09:15:34.384 UTC: skinny_add_socket 1 172.16.2.101 50230
*Nov 30 09:15:34.869 UTC: %IPPHONE-6-REG_ALARM: 22: Name=SEP000A8A93E0F9 Load=7.
2(3.0) Last=Reset-Reset
*Nov 30 09:15:34.869 UTC:
Skinny StationAlarmMessage on socket [1] 172.16.2.101 SEP000A8A93E0F9
*Nov 30 09:15:34.869 UTC: severityInformational p1=2049 [0x801] p2=1694634156 [0
x650210AC]
```

\*Nov 30 09:15:34.869 UTC: 22: Name=SEP000A8A93E0F9 Load=7.2(3.0) Last=Reset-Reset

\*Nov 30 09:15:34.869 UTC: ephone-(1)[1] StationRegisterMessage (0/0/10) from 172.16.2.101

\*Nov 30 09:15:34.869 UTC: ephone-(1)[1] Register StationIdentifier DeviceName SEP000A8A93E0F9

\*Nov 30 09:15:34.869 UTC: ephone-(1)[1] StationIdentifier Instance 1 deviceType 7

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:stationIpAddress 172.16.2.101

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:maxStreams 0

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:protocol Ver 0x84000006

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:phone-size 2820 dn-size 488

\*Nov 30 09:15:34.869 UTC: ephone-(1) Allow any Skinny Server IP address 172.16.2.211

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:Found entry 0 for 000A8A93E0F9

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:socket change -1 to 1

\*Nov 30 09:15:34.869 UTC: ephone-1[-1]:FAILED: CLOSED old socket -1

\*Nov 30 09:15:34.869 UTC: ephone-1[1]:\*\*\*Force device subtype to 0

\*Nov 30 09:15:34.869 UTC: ephone-1[1]:phone SEP000A8A93E0F9 re-associate OK on socket [1]

\*Nov 30 09:15:34.869 UTC: %IPPHONE-6-REGISTER: ephone-1:SEP000A8A93E0F9 IP:172.16.2.101 Socket:1 DeviceType:Phone has registered.

\*Nov 30 09:15:34.869 UTC: Phone

Reset/Restart-all looking for phones registered as type 20000 7905 0 socket 1

\*Nov 30 09:15:34.869 UTC: Skinny Local IP address = 172.16.2.211 on port 2000

\*Nov 30 09:15:34.869 UTC: Skinny Phone IP address = 172.16.2.101 50230

\*Nov 30 09:15:34.869 UTC: ephone-1[1]:Signal protocol ver 5 to phone with ver 6

\*Nov 30 09:15:34.869 UTC: ephone-1[1]:Date Format M/D/Y

\*Nov 30 09:15:34.869 UTC: ephone-1[1]:RegisterAck sent to ephone 1: keepalive period 30 use sccp-version 5

\*Nov 30 09:15:34.873 UTC: ephone-1[1]:CapabilitiesReq sent

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:CapabilitiesRes received

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:Caps list 7

WideBand\_256K 120 ms

G711Ulaw64k 40 ms

G711Alaw64k 40 ms

G729AnnexB 60 ms

G729AnnexAwAnnexB 60 ms

G729 60 ms

G729AnnexA 60 ms

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:ButtonTemplateReqMessage

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:ButtonTemplateReqMessage

Reset/Restart-all looking for phones registered as type 30008 7902 125 UTC: ephone-1[1]:CheckAutoReg

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:AutoReg is disabled

\*Nov 30 09:15:35.125 UTC: ephone-1[1][SEP000A8A93E0F9]:Setting 6 lines 0 speed-dials on phone (max\_line 6)

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:First Speed Dial Button location is 0 (0)

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:Configured 0 speed dial buttons

\*Nov 30 09:15:35.125 UTC: ephone-1[1]:ButtonTemplate lines=6 speed=0 buttons=6 offset=0

\*Nov 30 09:15:35.381 UTC: ephone-1[1]:StationSoftKeyTemplateReqMessage

\*Nov 30 09:15:35.381 UTC: ephone-1[1]:StationSoftKeyTemplateResMessage

\*Nov 30 09:15:35.633 UTC: ephone-1[1]:StationSoftKeySetReqMessage

\*Nov 30 09:15:35.633 UTC: ephone-1[1]:Removed SkPark key

\*Nov 30 09:15:35.633 UTC: ephone-1[1]:StationSoftKeySetResMessage

\*Nov 30 09:15:35.885 UTC: ephone-1[1]:StationLineStatReqMessage from ephone line 6

\*Nov 30 09:15:35.885 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatReqMessage

from ephone line 6 Invalid DN 0

\*Nov 30 09:15:35.885 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatResMessage sent to ephone (1 of 6)

\*Nov 30 09:15:36.137 UTC: ephone-1[1]:StationLineStatReqMessage from ephone line 5

\*Nov 30 09:15:36.137 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatReqMessage from ephone line 5 Invalid DN 0

\*Nov 30 09:15:36.137 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatResMessage sent to ephone (2 of 6)

\*Nov 30 09:15:36.389 UTC: ephone-1[1]:StationLineStatReqMessage from ephone line 4

\*Nov 30 09:15:36.389 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatReqMessage from ephone line 4 Invalid DN 0

\*Nov 30 09:15:36.38

Reset/Restart-all looking for phones registered as type 30002 7920 9 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatResMessage sent to ephone (3 of 6)

\*Nov 30 09:15:36.641 UTC: ephone-1[1]:StationLineStatReqMessage from ephone line 3

\*Nov 30 09:15:36.641 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatReqMessage from ephone line 3 Invalid DN 0

\*Nov 30 09:15:36.641 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatResMessage sent to ephone (4 of 6)

\*Nov 30 09:15:36.893 UTC: ephone-1[1]:StationLineStatReqMessage from ephone line 2

\*Nov 30 09:15:36.893 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatReqMessage from ephone line 2 Invalid DN 0

\*Nov 30 09:15:36.893 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatResMessage sent to ephone (5 of 6)

\*Nov 30 09:15:37.145 UTC: ephone-1[1]:StationLineStatReqMessage from ephone line 1

\*Nov 30 09:15:37.145 UTC: ephon

Reset/Restart-all looking for phones registered as type 30016 CIPC e-1[1]:StationLineStatReqMessage ephone line 1 DN 1 = 7001 desc = 7001 label =

\*Nov 30 09:15:37.145 UTC: ephone-1[1][SEP000A8A93E0F9]:StationLineStatResMessage sent to ephone (6 of 6)

\*Nov 30 09:15:37.145 UTC: ephone-1[1]:SkinnyCompleteRegistration

\*Nov 30 09:15:37.221 UTC: TFTP: Looking for SEP000A8A93E0F9.cnf.xml

\*Nov 30 09:15:37.221 UTC: TFTP: Opened system:/its/XMLDefault7960.cnf.xml, fd 0, size 788 for process 216

\*Nov 30 09:15:37.221 UTC: TFTP: Looking for RINGLIST.XML

\*Nov 30 09:15:37.241 UTC: TFTP: Finished system:/its/XMLDefault7960.cnf.xml, time 00:00:00 for process 216

\*Nov 30 09:15:37.245 UTC: TFTP: Looking for DISTINCTIVERINGLIST.XML

\*Nov 30 09:15:37.409 UTC: ephone-1[1]:Skinny Available Lines 6 set for socket [1]

\*Nov 30 09:15:37.409 UTC: ephone-1[1]:Already done

Reset/Restart-all looking for phones registered as type 30006 7970 one SkinnyCompleteRegistration

Reset/Restart-all looking for phones registered as type 119 7971

Reset/Restart-all looking for phones registered as type 115 7941

Reset/Restart-all looking for phones registered as type 308 7961GE

Reset/Restart-all looking for phones registered as type 309 7941GE

Reset/Restart-all looking for phones registered as type 307 7911

Reset/Restart-all looking for phones registered as type 302 7985

Reset/Restart-all looking for phones registered as type 30018 7961

Reset/Restart-all looking for phones registered as type 30019 7936

Reset/Restart-all looking for phones registered as type 12 ATA Phone

Reset/Restart-all looking for phones registered as type 30027 SCCP Gateway (AN)

Reset/Restart-all looking for phones registered as type 30028 SCCP Gateway (BRI)

Reset/Restart-all looking for phones registered as type 9 7935

Reset/Restart-all looking for phones registered as type 1 30SP+

Reset/Restart-all looking for phones registered as type 2 12SP+

Reset/Restart-all looking for phones registered as type 3 12SP



```
Reset/Restart-all looking for phones registered as type 4 12
Reset/Restart-all looking for phones registered as type 5 30VIP
Reset/Restart-all looking for phones registered as type 80 Unity Voice Port
Reset/Restart-all looking for phones registered as type 21 Unity Voice Port
Reset/Restart-all looking for phones registered as type -1 Unknown -1
Reset-All issued for 1 phones
 45 seconds (wait for last phone to re-register)
```

**Nota:** durante un aggiornamento, se sullo schermo LCD di un telefono IP Cisco viene visualizzato `File Not Found`, significa che è stato effettuato un tentativo di caricare un'immagine non firmata su un telefono IP Cisco che già possiede un'immagine firmata.

## [Informazioni correlate](#)

- [Matrice di aggiornamento firmware per telefoni IP Cisco 7940 e 7960](#)
- [Supporto alla tecnologia vocale](#)
- [Supporto dei prodotti per le comunicazioni voce e IP](#)
- [Risoluzione dei problemi di Cisco IP Telephony](#)
- [Documentazione e supporto tecnico – Cisco Systems](#)