

Firmware voor upgrade IP-telefoon met CME

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Dit document biedt de procedure voor het upgraden van de Cisco IP-telefoonfirmware met Cisco CallManager Express.

[Voorwaarden](#)

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Zorg ervoor dat u aan deze vereisten voldoet voordat u deze configuratie probeert:

- Cisco IP-telefoons zijn momenteel geregistreerd bij Cisco CallManager Express.

[Gebruikte componenten](#)

De informatie in dit document is gebaseerd op deze software en hardwareversies, maar is van toepassing op alle Cisco CallManager Express releases en Cisco IP-telefoonladingen:

- Cisco IOS? Router op Cisco IOS? release 12.4(4)T met Cisco CallManager Express release 3.4(0)
- Cisco IP-telefoon 7960

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.

Conventies

Raadpleeg de [Cisco Technical Tips Convention](#) voor meer informatie over documentconventies.

Achtergrondinformatie

Ondertekende en niet-ondertekende afbeeldingen (beeldverificatie)

Er zijn twee soorten afbeeldingen die op Cisco IP-telefoon 7960 en 7940 worden gebruikt: ondertekende en niet-ondertekende afbeeldingen. Beeldauthenticatie wordt uitgevoerd door ondertekende binaire bestanden. Gesigneerde beelden hebben een .sbn-extensie, terwijl niet-ondertekende beelden een .bin-extensie hebben.

Afbeeldingsversies eerder dan 5.x aanvaarden niet-ondertekende binaire bestanden. Afbeeldingsversies 5.x en aanvaarden later alleen ondertekende binaire bestanden, die beveiliging op Cisco IP-telefoon 7960 en 7940 verbeteren. Het gebruik van getekende binaire bestanden maakt het u echter niet mogelijk om terug te keren naar een eerder niet-getekend firmware-beeld. Nadat een versie 5.0 firmware-beeld is geïnstalleerd, ongeacht het protocol, kan het beeld niet meer worden vervangen door een vorige versie. De firmware-afbeelding kan alleen worden vervangen door een andere ondertekende afbeelding versie 5.x of hoger. Alle versies eerder dan versie 5.0 voor Cisco IP-telefoon 7960 en 7940 laden niet aan de telefoon na de installatie.

Configureren

In deze sectie, wordt u voorgesteld met de informatie om de telefoonfirmware van Cisco IP te verbeteren.

Downloads

U kunt de vereiste SCCP firmware-bestanden downloaden van [Cisco IP-telefoon FW 7900 Series \(NON SIP\) - Software Download](#) (alleen geregistreerde klanten). Download het juiste .zip-bestand voor het Cisco IP-telefoonmodel. Afhankelijk van het model van Cisco IP-telefoon kan het .zip-bestand een of meer bestanden bevatten.

Het .zip-bestand voor Cisco IP-telefoonmodellen 7960 en 7940, **standaard-7940-7960-sccp.7-2-3.zip**, bevat de volgende bestanden:

- P00307020300.bin
- P00307020300.sbn
- P00307020300.sb2
- P00307020300.loads

Op dezelfde manier bevat het firmware .zip-bestand voor Cisco IP-telefoonmodel 7905G, **standaard-7905G-sccp.6-1-1**, deze bestanden:

- CP7905060101SCCP050429A.bin
- CP7905060101SCCP050429A.zup

Stap voor stap Configuraties

Voltooi de volgende stappen om de juiste firmware te configureren:

1. Breng alle firmware-bestanden naar het Flash geheugen van Cisco CallManager Express over. Om de overdracht van bestanden te controleren geeft u de opdracht **flitsertonen** uit:

```
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. Maak de bestanden beschikbaar om door Cisco IP-telefoons met deze configuratie te kunnen downloaden:

```
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. Configureer de juiste firmware voor Cisco IP-telefoons:

```
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
```

Opmerking: in de opdracht **load** mag de extensie (.bin of .sbn) van het firmware-bestand niet worden vermeld.

4. Reset de Cisco IP-telefoons om deze de nieuwe firmware-versie te laten kiezen. Als u gepland hebt voor downtime, herstelt u alle telefoons in één keer. U kunt de telefoons ook individueel opnieuw instellen, aangezien de gebruikers klaar zijn.

```
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

```

Verifiëren

Gebruik dit gedeelte om te bevestigen dat de configuratie correct werkt.

Geef deze opdrachten uit om de configuratie van het apparaat te controleren:

- **Toon telefonie-service all**-displays de gedetailleerde configuratie van alle Cisco IP-telefoons, spraakpoorten en kiespeers van de Cisco IOS Telephony Service router.

```

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
```

- **toon telefoon**—geeft informatie weer over geregistreerde Cisco IP-telefoons.

```
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
```

Problemen oplossen

Deze sectie bevat informatie waarmee u problemen met de configuratie kunt oplossen.

Deze debug-opdrachten helpen problemen in de upgrade van de firmware te identificeren:

- **TFTP-gebeurtenissen debug**
- **telefoonregister debug**

Dit voorbeeld toont de bug-informatie die gegenereerd wordt wanneer een Cisco IP-telefoon 7960 met succes is bijgewerkt naar firmware versie 7.2.2:

```
*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-Rese
t
*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 3

Reset/Restart-all looking for phones registered as type 6 Telecaster 7910 0 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.

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 09:15:3

Reset/Restart-all looking for phones registered as type 30007 7912 5.885 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 d

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)
```

Opmerking: Tijdens een upgrade, als het LCD-scherf van een Cisco IP-telefoon Bestand weergeeft dat niet is gevonden, kan dit duiden op een poging om een niet-ondertekend beeld te laden op een Cisco IP-telefoon die al een ondertekend beeld heeft.

[Gerelateerde informatie](#)

- [Cisco 7940 en 7960 Series firmware-upgrade-kaart](#)
- [Ondersteuning voor spraaktechnologie](#)
- [Productondersteuning voor spraak- en IP-communicatie](#)
- [Probleemoplossing voor Cisco IP-telefonie](#)
- [Technische ondersteuning en documentatie – Cisco Systems](#)