

CCME를 사용하여 IP Phone 펌웨어 업그레이드

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소개

이 문서에서는 Cisco IP Phone 펌웨어를 Cisco CallManager Express로 업그레이드하는 방법을 설명합니다.

사전 요구 사항

요구 사항

이 구성을 시도하기 전에 다음 요구 사항을 충족해야 합니다.

- Cisco IP Phone은 현재 Cisco CallManager Express에 등록되어 있습니다.

사용되는 구성 요소

이 문서의 정보는 이러한 소프트웨어 및 하드웨어 버전을 기반으로 하지만 모든 Cisco CallManager Express 릴리스 및 Cisco IP Phone 로드에는 적용됩니다.

- Cisco IOS?Cisco IOS의 라우터릴리스 12.4(4)T(Cisco CallManager Express 릴리스 3.4(0) 포함)
- Cisco IP Phone 7960

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다.이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다.현재 네트워크가 작동 중인 경우, 모든 명령어의 잠재적인 영향을 미리 숙지하시기 바랍니다.

[표기 규칙](#)

문서 규칙에 대한 자세한 내용은 [Cisco 기술 팁 규칙](#)을 참조하십시오.

[배경 정보](#)

[서명 및 서명되지 않은 이미지\(이미지 인증\)](#)

Cisco IP Phone 7960 및 7940에는 두 가지 유형의 이미지가 사용됩니다. 서명 및 서명되지 않은 이미지 이미지 인증은 서명된 이진 파일을 통해 수행됩니다. 서명된 이미지의 확장명은 .sbn이고 서명되지 않은 이미지의 확장명은 .bin입니다.

5.x 이전 이미지 버전에서는 부호 없는 이진 파일을 사용할 수 있습니다. 이미지 버전 5.x 이상에서는 서명된 이진 파일만 받아들이며, 이는 Cisco IP Phone 7960 및 7940의 보안을 향상시킵니다. 그러나 서명된 이진 파일을 사용해도 이전 서명되지 않은 펌웨어 이미지로 돌아갈 수 없습니다. 버전 5.0 펌웨어 이미지가 설치되면 프로토콜과 상관없이 이미지를 이전 버전으로 교체할 수 없습니다. 펌웨어 이미지는 서명된 다른 이미지 버전 5.x 이상으로만 교체할 수 있습니다. Cisco IP Phone 7960 및 7940용 버전 5.0 이전 버전은 설치 후 전화기에 로드되지 않습니다.

[구성](#)

이 섹션에서는 Cisco IP Phone 펌웨어 업그레이드에 대한 정보를 제공합니다.

[다운로드](#)

필요한 SCCP 펌웨어 파일은 [Cisco IP Phone FW 7900 Series\(NON SIP\) - Software Download \(등록된 고객만 해당\)](#)에서 다운로드할 수 있습니다. Cisco IP Phone 모델에 적합한 .zip 파일을 다운로드합니다. Cisco IP Phone 모델에 따라 .zip 파일에 하나 이상의 파일이 포함될 수 있습니다.

Cisco IP Phone 모델 7960 및 7940, comterm-7940-7960-sccp.7-2-3.zip용 펌웨어 버전 7.2(3) .zip 파일에는 다음 파일이 포함됩니다.

- P00307020300.bin
- P003070203007억
- P00307020300.sb2
- P00307020300.로드

마찬가지로, Cisco IP Phone 모델 7905G, comterm-7905G-sccp.6-1-1용 펌웨어 .zip 파일에는 다음 파일이 포함됩니다.

- CP7905060101SCCP050429A.sbin
- CP7905060101SCCP050429A.zup

[단계별 구성](#)

해당 펌웨어를 구성하려면 다음 단계를 완료하십시오.

1. 모든 펌웨어 파일을 Cisco CallManager Express의 플래시 메모리로 전송합니다. 파일 전송을 확인하려면 **show flash** 명령을 실행합니다.

```
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. 다음 컨피그레이션으로 Cisco IP Phone에서 파일을 다운로드할 수 있도록 합니다.

```
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. Cisco IP 전화에 적합한 펌웨어를 구성합니다.

```
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
```

참고: load 명령에서 펌웨어 파일의 확장자(.bin 또는 .sbn)는 언급하지 않아야 합니다.

4. 새 펌웨어 버전을 선택하도록 Cisco IP 전화기를 재설정합니다.다운타임을 계획했다면 모든 전화기를 즉시 재설정합니다.사용자가 준비되었으므로 전화기를 개별적으로 재설정할 수도 있습니다.

```
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)

```

```

라우터_CCME

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

```

다음을 확인합니다.

이 섹션을 사용하여 컨피그레이션이 제대로 작동하는지 확인합니다.

다음 명령을 실행하여 컨피그레이션을 확인합니다.

- **show telephony-service all**—Cisco IOS Telephony Service 라우터의 모든 Cisco IP 전화, 음성 포트 및 다이얼 피어의 자세한 컨피그레이션을 표시합니다.

```

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-tones.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_States/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_States/SCCP-dictionary.xml
```

- **show ephone** - 등록된 Cisco IP 전화에 대한 정보를 표시합니다.

```
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
```

문제 해결

이 섹션에서는 컨피그레이션 문제를 해결하는 데 사용할 수 있는 정보를 제공합니다.

다음 debug 명령은 펌웨어 업그레이드의 모든 문제를 식별하는 데 도움이 됩니다.

- 디버그 tftp 이벤트
- 디버그 전화 레지스터

다음 예에서는 Cisco IP Phone 7960이 펌웨어 버전 7.2.2으로 성공적으로 업그레이드될 때 생성되는 디버그 정보를 보여줍니다.

```
*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] SEP000A8A93E0F9
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 SE
P000A8A93E0F9
*Nov 30 09:15:34.869 UTC: ephone-(1)[1] StationIdentifier Instance 1 deviceTy
pe 7
*Nov 30 09:15:34.869 UTC: ephone-1[-1]:stationIpAddr 172.16.2.101
*Nov 3
Reset/Restart-all looking for phones registered as type 6 Telecaster 7910 0 09:1
5:34.869 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: ephon
e-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]:Stati
onLineStatReqMessage 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, tim
e 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 SkinnyCo
mpleteRegistration
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)
```

참고: 업그레이드 중에 Cisco IP 전화의 LCD에 이 표시되면 서명되지 않은 이미지를 이미 서명된 이미지가 있는 Cisco IP 전화기에 로드하려는 시도를 나타낼 수 있습니다.

[관련 정보](#)

- [Cisco 7940 및 7960 IP Phones 펌웨어 업그레이드 매트릭스](#)
- [음성 기술 지원](#)
- [음성 및 IP 커뮤니케이션 제품 지원](#)
- [Cisco IP 텔레포니 문제 해결](#)
- [기술 지원 및 문서 - Cisco Systems](#)