



# APPENDIX **F**

## Legacy PBX Information

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This document explains the Legacy PBX Information for the Hosted UCS Release 7.1(a). The following sections are discussed in this document:

- [Example IOS Gateway Configuration, page F-1](#)
- [Supported External Node Types on the PGW, page F-4](#)

## Example IOS Gateway Configuration

Following is an example configuration for a Media Gateway connected to a PBX using PRI QSIG, backhauled to the PGW via MGCP. A 3825 ISR router was used, and the connection to the PBX was made using a VWIC-2MFT-E1-DI Interface Card, in the NM-HDV2-2T1/E1 Network Module:

```
e4qsig#sh ver
Cisco IOS Software, 3800 Software (C3825-IPVOICEK9-M), Version 12.4(15)T3, RELEASE
SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2008 by Cisco Systems, Inc.
Compiled Thu 24-Jan-08 23:00 by prod_rel_team
```

ROM: System Bootstrap, Version 12.4(13r)T, RELEASE SOFTWARE (fc1)

```
e4qsig uptime is 19 weeks, 4 days, 21 hours, 52 minutes
System returned to ROM by power-on
System restarted at 10:34:07 BST Sun Sep 7 2008
System image file is "flash:c3825-ipvoicek9-mz.124-15.T3.bin"
.
.
.
Cisco 3825 (revision 1.2) with 224256K/37888K bytes of memory.
Processor board ID FCZ1139709Z
2 Gigabit Ethernet interfaces
31 Serial interfaces
2 Channelized E1/PRI ports
2 Channelized (E1 or T1)/PRI ports
DRAM configuration is 64 bits wide with parity enabled.
479K bytes of NVRAM.
62720K bytes of ATA System CompactFlash (Read/Write)
```

Configuration register is 0x2102

```

e4qsig#sh run
Building configuration...

Current configuration : 2863 bytes
!
! No configuration change since last restart
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname e4qsig
!
boot-start-marker
boot system flash:c3825-ipvoicek9-mz.124-15.T3.bin
boot-end-marker
!
!card type command needed for slot 1
logging buffered 51200 warnings
enable secret 5 $1$EyO2$rVgOzIpml6Fqo3NMmsy8T0
!
no aaa new-model
clock timezone GMT 0
clock summer-time BST recurring last Sun Mar 2:00 last Sun Oct 3:00
no network-clock-participate slot 1
ip cef
!
!
!
!
no ip domain lookup
ip domain name ipcbuemea.cisco.com
ip host pgw 10.120.4.11 10.121.4.11 10.120.4.12 10.121.4.12
multilink bundle-name authenticated
!
backhaul-session-manager
  set QSIG client ft
  group master set QSIG
  group slave set QSIG
  session group master 10.120.4.11 7007 10.190.4.40 7007 1
  session group slave 10.120.4.12 7007 10.190.4.40 7007 1
  session group master 10.121.4.11 7007 10.191.4.40 7007 2
  session group slave 10.121.4.12 7007 10.191.4.40 7007 2
isdn switch-type primary-qsig
voice-card 0
  no dspfarm
!
voice-card 1
  no dspfarm
!
username cisco privilege 15 secret 5 $1$eLBA$jWOMg6jvj1UXeFW/9g7CC0
!
!
controller E1 1/0/0
  framing NO-CRC4
  pri-group timeslots 1-31 service mgcp
!
controller E1 1/0/1
!
!
!

```

```
!  
interface GigabitEthernet0/0  
 ip address 10.190.4.40 255.255.255.0  
 duplex full  
 speed 100  
 media-type rj45  
!  
interface GigabitEthernet0/1  
 ip address 10.191.4.40 255.255.255.0  
 duplex full  
 speed 100  
 media-type rj45  
!  
interface Serial1/0/0:15  
 no ip address  
 encapsulation hdlc  
 isdn switch-type primary-qsig  
 isdn timer T310 120000  
 isdn protocol-emulate network  
 isdn incoming-voice voice  
 isdn bind-13 backhaul QSIG  
 no cdp enable  
!  
ip route 0.0.0.0 0.0.0.0 10.190.4.1  
ip route 0.0.0.0 0.0.0.0 10.191.4.1 200  
!  
!  
ip http server  
ip http access-class 23  
ip http authentication local  
no ip http secure-server  
ip http timeout-policy idle 60 life 86400 requests 10000  
!  
access-list 23 permit 10.10.10.0 0.0.0.7  
!  
!  
!  
control-plane  
!  
!  
!  
voice-port 1/0/0:15  
!  
!  
mgcp  
mgcp call-agent pgw 2427 service-type mgcp version 1.0  
mgcp dtmf-relay voip codec all mode nse  
mgcp max-waiting-delay 1000  
mgcp restart-delay 2  
mgcp modem passthrough voip mode nse  
mgcp codec g711alaw packetization-period 20  
mgcp package-capability rtp-package  
mgcp package-capability as-package  
mgcp default-package gm-package  
no mgcp timer receive-rtcp  
mgcp bind control source-interface GigabitEthernet0/0  
mgcp bind media source-interface GigabitEthernet0/0  
!  
mgcp profile default  
!  
!  
!  
!
```

```

line con 0
  exec-timeout 0 0
  password cisco
  logging synchronous
  login
  stopbits 1
line aux 0
  stopbits 1
line vty 0 4
  exec-timeout 0 0
  password cisco
  login
  transport input telnet
line vty 5 15
  access-class 23 in
  privilege level 15
  login local
  transport input telnet
!
scheduler allocate 20000 1000
ntp clock-period 17208472
ntp server 10.100.100.2
ntp server 10.100.100.3
!
end

```

back to Legacy PBX Support (Section 15)

## Supported External Node Types on the PGW

To view the External Node Types supported on the PGW, login to the PGW and execute the following:

```

cd /opt/CiscoMGC/etc
more extNodeTypes.dat

```

For example:

```

PGW-ENT2M% cd /opt/CiscoMGC/etc
PGW-ENT2M% more extNodeTypes.dat
C1751 MGCP IPFAS IUA BRI
C1751_OLD MGCP IPFAS IUA BRI
C1760 MGCP IPFAS IUA BRI
C1760_OLD MGCP IPFAS IUA BRI
C2600 SGCP MGCP IPFAS IUA BRI
C2600_OLD SGCP MGCP IPFAS IUA BRI
C2610XM MGCP IPFAS IUA BRI
C2610XM_OLD MGCP IPFAS IUA BRI
C2611XM MGCP IPFAS IUA BRI
C2611XM_OLD MGCP IPFAS IUA BRI
C2620XM MGCP IPFAS IUA BRI
C2620XM_OLD MGCP IPFAS IUA BRI

```

C2621XM MGCP IPFAS IUA BRI  
C2621XM\_OLD MGCP IPFAS IUA BRI  
C2650XM MGCP IPFAS IUA BRI  
C2650XM\_OLD MGCP IPFAS IUA BRI  
C2651XM MGCP IPFAS IUA BRI  
C2651XM\_OLD MGCP IPFAS IUA BRI  
C2691 MGCP IPFAS IUA BRI  
C2691\_OLD MGCP IPFAS IUA BRI  
C3600 SGCP MGCP IPFAS NAS IUA  
C3640 MGCP IPFAS IUA BRI  
C3640A MGCP IPFAS IUA BRI  
C3660 SGCP MGCP IPFAS NAS IUA BRI  
C3725 MGCP IPFAS IUA BRI  
C3725\_OLD MGCP IPFAS IUA BRI  
C3745 MGCP IPFAS IUA BRI  
C3745\_OLD MGCP IPFAS IUA BRI  
C2801 MGCP IPFAS IUA BRI  
C2811 MGCP IPFAS IUA BRI  
C2821 MGCP IPFAS IUA BRI  
C2851 MGCP IPFAS IUA BRI  
C3825 MGCP IPFAS IUA BRI  
C3845 MGCP IPFAS IUA BRI  
AS5200 IPFAS NAS  
AS5300 SGCP MGCP IPFAS NAS IUA MGCPANNO MGCPIVR  
AS5350 SGCP MGCP IPFAS NAS BSMV0 IUA MGCPANNO MGCPIVR  
AS5400 SGCP MGCP IPFAS NAS BSMV0 IUA MGCPANNO MGCPIVR  
AS5800 IPFAS NAS MGCPANNO  
AS5850 IPFAS NAS MGCPANNO MGCP IUA MGCPIVR  
AS7200 SGCP MGCP IPFAS NAS  
CAT8510 MGCP SGCP  
CAT8540 MGCP SGCP  
MGC EISUP  
MGX8260 MGCP IPFAS NAS  
MGX8850 MGCP SGCP IPFAS  
VISM MGCP SGCP IPFAS  
VXSM MGCP SGCP IPFAS IUA H248 MGCPANNO M3UA IPANNO IPTONE CODEC DTMF  
UDP SCTP  
LS1010 MGCP SGCP

## Supported External Node Types on the PGW

SCP TCAPIP  
 TALISS7 SS7SG  
 MC3810 MGCP IPFAS  
 SLT BSMV0  
 H323 EISUP  
 UNKNOWN UNKNOWN  
 ITP M3UA SUA  
 LIMD LI  
 CCMCLUSTER N/A  
 RA CLUSTER RA  
 C7200 H248 DTMF UDP TCP ETSI\_NAPT ITU\_IPNAPT EVPND  
 C7600 H248 DTMF UDP TCP ETSI\_NAPT ITU\_IPNAPT EVPND  
 C12000 H248 DTMF UDP TCP ETSI\_NAPT ITU\_IPNAPT EVPND  
 ASR1000 H248 DTMF UDP TCP ETSI\_NAPT ITU\_IPNAPT EVPND  
 CRS1 H248 DTMF UDP TCP ETSI\_NAPT ITU\_IPNAPT EVPND