



APPENDIX H

Local Gateway Configuration

Revised: 08/12/2010, OL-23270-01

This document provides you the Example Local Gateway Configuration. The following sections are covered in this document.

- [Local Gateway configuration for PRI port, page H-1](#)
- [Local Gateway configuration for BRI port, page H-7](#)

Local Gateway configuration for PRI port

This section provides you the example running configuration of a local gateway with PRI port (provisioned via USM) for your reference.

```
e1-lgw#sh run
Building configuration...
Current configuration : 8774 bytes
!
! Last configuration change at 13:33:14 UTC Mon Jun 28 2010 by cisco
!
version 15.0
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname e1-lgw
!
boot-start-marker
boot system flash c2800nm-adventerprisek9_ivs-mz.150-1.M2.bin
boot-end-marker
!
card type e1 0 1
logging buffered 51200 warnings
enable secret 5 $1$sgHJ$Y1SV9774EepM5dot0Zz.k0
enable password cisco
!
no aaa new-model
!
network-clock-participate wic 1
!
dot11 syslog
ip source-route
```

```

!
ip cef
!
no ip domain lookup
ip domain name ipcbuemea.com
no ipv6 cef
!
multilink bundle-name authenticated
!
isdn switch-type primary-net5
!
voice service voip
!
voice class codec 1
  codec preference 1 g729r8
  codec preference 3 g711ulaw
  codec preference 4 g711alaw
!
voice class h323 1
  h225 timeout setup 3
  call start slow
!
voice class h323 8
  h225 timeout tcp establish 2
  call start slow
!
!
!
voice translation-rule 102
  rule 1 /^#1#\(.*\) / /\1/
!
voice translation-rule 212
  rule 1 /^\(.*\) / #1#\1/
!
voice translation-rule 802
  rule 1 /^#2#\(.*\) / /\1/
!
voice translation-rule 812
  rule 1 /^90900000\(.*\) / 904\1/
  rule 2 /^90800\(.*\) / 906800\1/
  rule 3 /^90866\(.*\) / 906866\1/
  rule 4 /^90877\(.*\) / 906877\1/
  rule 5 /^90888\(.*\) / 906888\1/
  rule 6 /^90900\(.*\) / 907900\1/
  rule 7 /^90700\(.*\) / 907700\1/
  rule 12 /^900\(.*\) / 902\1/
  rule 13 /^90\(.*\) / 901\1/
  rule 14 /^9\(.*\) / 903\1/
  rule 15 /^8\(.*\) / /\1/
!
voice translation-rule 911
  rule 1 /^\(.*\) / 1\1/ type national unknown
  rule 2 /^\(.*\) / 011\1/ type international unknown
  rule 3 /^1\(.*\) / 1\1/ type unknown unknown
  rule 4 /^011\(.*\) / 011\1/ type unknown unknown
  rule 5 /^\(.*\) / /\1/ type unknown unknown
!
voice translation-rule 912
  rule 1 /^\(.*\) / /\1/ type national unknown
  rule 2 /^1\(.*\) / /\1/ type unknown unknown
!
voice translation-rule 9011
  rule 1 /^\(.*\) / /\1/ type any national
!

```

```
voice translation-rule 9012
  rule 1 /^\(.*\) / /1\1/ type any unknown
!
voice translation-rule 9021
  rule 1 /^901\(.*\) / /\1/ type any national
  rule 2 /^902\(.*\) / /\1/ type any international
  rule 3 /^903\(.*\) / /\1/ type any unknown
  rule 4 /^904\(.*\) / /\1/ type any unknown
  rule 5 /^905\(.*\) / /\1/ type any national
  rule 6 /^906\(.*\) / /\1/ type any national
  rule 7 /^907\(.*\) / /\1/ type any national
  rule 8 /^908\(.*\) / /\1/ type any national
!
voice translation-rule 9022
  rule 1 /^901\(.*\) / /1\1/ type any unknown
  rule 2 /^902\(.*\) / /011\1/ type any unknown
  rule 3 /^903\(.*\) / /\1/ type any unknown
  rule 4 /^904\(.*\) / /\1/ type any unknown
  rule 5 /^905\(.*\) / /1\1/ type any unknown
  rule 6 /^906\(.*\) / /1\1/ type any unknown
  rule 7 /^907\(.*\) / /1\1/ type any unknown
  rule 8 /^908\(.*\) / /1\1/ type any unknown
!
voice translation-rule 911305
  rule 1 /^\(.*\) / /\1/ type subscriber unknown
  rule 2 /^305\(.*\) / /305\1/ type unknown unknown
!
voice translation-rule 912305
  rule 1 /^\(.*\) / /305\1/ type subscriber unknown
  rule 2 /^305\(.*\) / /305\1/ type unknown unknown
!
voice translation-rule 9011305
  rule 1 /^305\(.*\) / /305\1/ type any subscriber
!
voice translation-rule 9012305
  rule 1 /^305\(.*\) / /305\1/ type any unknown
!
voice translation-rule 9021305
  rule 1 /^901305\(.*\) / /305\1/ type any subscriber
!
voice translation-rule 9022305
  rule 1 /^901305\(.*\) / /305\1/ type any unknown
!
!
voice translation-profile POTSIN21
  translate called 212
!
voice translation-profile POTSIN91
  translate calling 911
  translate called 912
!
voice translation-profile POTSIN91305
  translate calling 911305
  translate called 912305
!
voice translation-profile POTSOUT9011
  translate calling 9011
  translate called 9021
!
voice translation-profile POTSOUT9011305
  translate calling 9011305
  translate called 9021305
!
voice translation-profile POTSOUT9012
```

```

translate calling 9011
translate called 9022
!
voice translation-profile POTSOUT9012305
translate calling 9011305
translate called 9022305
!
voice translation-profile POTSOUT9021
translate calling 9012
translate called 9021
!
voice translation-profile POTSOUT9021305
translate calling 9012305
translate called 9021305
!
voice translation-profile POTSOUT9022
translate calling 9012
translate called 9022
!
voice translation-profile POTSOUT9022305
translate calling 9012305
translate called 9022305
!
voice translation-profile VOIPIN81
translate called 812
!
voice translation-profile VOIPOUT10
translate called 102
!
voice translation-profile VOIPOUT80
translate called 802
!
!
voice-card 0
dspfarm
dsp services dspfarm
!
!
application
service hucsntvoip flash:hucsntvoip.tcl
param calltype1 9
param rid1 0010
param ridlength 4
param srstmode off
param emerpubnum1 3053010009
param rangedigits1 1
param cpidlength 2
param emertype1 0
param gwlocationid 10
param e164rangestart1 3010000
param gwfnid 150
param natcode1 305
param rangesize1 10
param cpid1 01
param e164rangeprefix1 301000
param fintrangeprefix1 010010301000
param pstnpubnum1 3053010000
param fintrangestart1 010010301000
!
service hucsntpstn flash:hucsntpstn.tcl
param ridlength 4
param srstmode off
param rangedigits1 1
param cpidlength 2

```

```
param e164rangestart1 3010000
param gwfnid 150
param pstnaccessprefix1 9
param natcode1 305
param countrycode 1
param rangesize1 10
param gwelinid 25
param e164rangeprefix1 301000
param fintrangestart1 0100103010000
param fintrangeprefix1 010010301000
param calltype1 9
!
!
license udi pid CISCO2821 sn FHK1344F3CL
archive
  log config
  hidekeys
username cisco privilege 15 password 0 cisco
!
redundancy
!
!
controller E1 0/1/0
  framing NO-CRC4
  pri-group timeslots 1-31
  description E1 Controller 0/1/0
!
controller E1 0/1/1
  shutdown
!
!
interface GigabitEthernet0/0
  description $ETH-LAN$$ETH-SW-LAUNCH$$INTF-INFO-GE 0/0$
  ip address 10.190.1.44 255.255.255.0
  duplex full
  speed 100
  h323-gateway voip interface
  h323-gateway voip bind srcaddr 10.190.1.44
!
!
interface GigabitEthernet0/1
  ip address 10.191.1.44 255.255.255.0
  duplex full
  speed 100
!
!
interface Serial0/1/0:15
  no ip address
  encapsulation hdlc
  isdn switch-type primary-net5
  isdn incoming-voice voice
  no cdp enable
!
!
ip forward-protocol nd
no ip http server
no ip http secure-server
!
ip route 0.0.0.0 0.0.0.0 10.190.1.1
ip route 0.0.0.0 0.0.0.0 10.191.1.1 200
!
access-list 23 permit 10.10.10.0 0.0.0.7
!
control-plane
```

```

!
voice-port 0/1/0:15
!
dial-peer voice 11 voip
  translation-profile outgoing VOIPOUT10
  preference 1
  destination-pattern #1#T
  modem passthrough nse codec g711ulaw
  session target ipv4:10.134.1.3
  voice-class codec 1
  voice-class h323 1
  dtmf-relay h245-alphanumeric
  fax rate 14400
  no vad
!
dial-peer voice 81 voip
  translation-profile outgoing VOIPOUT80
  preference 1
  destination-pattern #2#T
  modem passthrough nse codec g711ulaw
  session target ipv4:10.134.1.3
  voice-class codec 1
  voice-class h323 8
  dtmf-relay h245-alphanumeric
  fax rate 14400
  no vad
!
dial-peer voice 12 voip
  translation-profile outgoing VOIPOUT10
  preference 2
  destination-pattern #1#T
  modem passthrough nse codec g711ulaw
  session target ipv4:10.134.1.2
  voice-class codec 1
  voice-class h323 1
  dtmf-relay h245-alphanumeric
  fax rate 14400
  no vad
!
dial-peer voice 82 voip
  translation-profile outgoing VOIPOUT80
  preference 2
  destination-pattern #2#T
  modem passthrough nse codec g711ulaw
  session target ipv4:10.134.1.2
  voice-class codec 1
  voice-class h323 8
  dtmf-relay h245-alphanumeric
  fax rate 14400
  no vad
!
dial-peer voice 8 voip
  translation-profile incoming VOIPIN81
  service hucsntvoip
  incoming called-number .
  voice-class codec 1
  voice-class h323 8
  dtmf-relay h245-alphanumeric
  fax rate 14400
  no vad
!
dial-peer voice 91 pots
  translation-profile incoming POTSIN91
  translation-profile outgoing POTSOUT9011

```

```

    preference 1
    service hucsntpstn
    destination-pattern 90[123456789]T
    no digit-strip
    direct-inward-dial
    port 0/1/0:15
    no register e164
    !
dial-peer voice 91305 pots
    translation-profile incoming POTSIN91305
    translation-profile outgoing POTSOUT9011305
    preference 1
    service hucsntpstn
    destination-pattern 901305T
    no digit-strip
    direct-inward-dial
    port 0/1/0:15
    no register e164
    !
    !
gateway
    !
    !
    !
gatekeeper
    shutdown
    !
    !
line con 0
    login local
line aux 0
    login local
line vty 0 4
    password cisco
    login local
    rotary 1
    transport input telnet
    transport output telnet
line vty 5 15
    access-class 23 in
    privilege level 15
    password cisco
    login local
    transport input telnet
    !
scheduler allocate 20000 1000
end

```

Local Gateway configuration for BRI port

This section provides you the example running configuration of a local gateway with BRI port for your reference.

```

ellgw2#sh run
Building configuration...
Current configuration : 9594 bytes
!
! Last configuration change at 11:42:15 UTC Mon Jun 28 2010 by cisco
!

```

```

version 15.0
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname e1lgw2
!
boot-start-marker
boot system flash c2800nm-ipvoice_ivs-mz.150-1.M2.bin
boot-end-marker
!
card type e1 0 1
! card type command needed for slot/vwic-slot 1/1
logging buffered 51200 warnings
enable secret 5 $1$SMZ8$Z024T0GrCI0TV1rGL/SJI.
!
no aaa new-model
no network-clock-participate slot 1
network-clock-participate wic 0
network-clock-participate wic 1
!
ip source-route
!
ip cef
!
no ip domain lookup
ip domain name ipcbuemea.cisco.com
no ipv6 cef
multilink bundle-name authenticated
!
isdn switch-type basic-net3
!
voice service voip
  allow-connections h323 to h323
  fax protocol t38 ls-redundancy 0 hs-redundancy 0 fallback none
  h323
    emptycapability
    h245 passthru tcsnonstd-passthru
    modem passthrough nse codec g711ulaw
  !
voice class codec 1
  codec preference 1 g729r8
  codec preference 3 g711ulaw
  codec preference 4 g711alaw
  !
voice class h323 1
  h225 timeout setup 3
  call start slow
  !
voice class h323 8
  h225 timeout tcp establish 2
  call start slow
  !
voice translation-rule 102
  rule 1 /^#1#\(.*\) / /\1/
  !
voice translation-rule 212
  rule 1 /^\(.*\) / /#1#\1/
  !
voice translation-rule 802
  rule 1 /^#2#\(.*\) / /\1/
  !
voice translation-rule 812
  rule 1 /^90900000\(.*\) / /904\1/

```

```

rule 2 /^90800\(.*\)/ /906800\1/
rule 3 /^90866\(.*\)/ /906866\1/
rule 4 /^90877\(.*\)/ /906877\1/
rule 5 /^90888\(.*\)/ /906888\1/
rule 6 /^90900\(.*\)/ /907900\1/
rule 7 /^90700\(.*\)/ /907700\1/
rule 12 /^900\(.*\)/ /902\1/
rule 13 /^90\(.*\)/ /901\1/
rule 14 /^9\(.*\)/ /903\1/
rule 15 /^8\(.*\)/ /\1/
!
voice translation-rule 911
rule 1 /\(.*\)/ /0\1/ type national unknown
rule 2 /\(.*\)/ /00\1/ type international unknown
rule 3 /^0\(.*\)/ /0\1/ type unknown unknown
rule 4 /^00\(.*\)/ /00\1/ type unknown unknown
rule 5 /\(.*\)/ /\1/ type unknown unknown
!
voice translation-rule 912
rule 1 /\(.*\)/ /\1/ type national unknown
rule 2 /^0\(.*\)/ /\1/ type unknown unknown
!
voice translation-rule 9011
rule 1 /\(.*\)/ /\1/ type any national
!
voice translation-rule 9012
rule 1 /\(.*\)/ /0\1/ type any unknown
!
voice translation-rule 9021
rule 1 /^901\(.*\)/ /\1/ type any national
rule 2 /^902\(.*\)/ /\1/ type any international
rule 3 /^903\(.*\)/ /\1/ type any unknown
rule 4 /^904\(.*\)/ /\1/ type any unknown
rule 5 /^905\(.*\)/ /\1/ type any national
rule 6 /^906\(.*\)/ /\1/ type any national
rule 7 /^907\(.*\)/ /\1/ type any national
rule 8 /^908\(.*\)/ /\1/ type any national
!
voice translation-rule 9022
rule 1 /^901\(.*\)/ /0\1/ type any unknown
rule 2 /^902\(.*\)/ /00\1/ type any unknown
rule 3 /^903\(.*\)/ /\1/ type any unknown
rule 4 /^904\(.*\)/ /\1/ type any unknown
rule 5 /^905\(.*\)/ /0\1/ type any unknown
rule 6 /^906\(.*\)/ /0\1/ type any unknown
rule 7 /^907\(.*\)/ /0\1/ type any unknown
rule 8 /^908\(.*\)/ /0\1/ type any unknown
!
voice translation-rule 9111637
rule 1 /\(.*\)/ /\1/ type subscriber unknown
rule 2 /^1637\(.*\)/ /1637\1/ type unknown unknown
!
voice translation-rule 9121637
rule 1 /\(.*\)/ /1637\1/ type subscriber unknown
rule 2 /^1637\(.*\)/ /1637\1/ type unknown unknown
!
voice translation-rule 90111637
rule 1 /^1637\(.*\)/ /1637\1/ type any subscriber
!
voice translation-rule 90121637
rule 1 /^1637\(.*\)/ /1637\1/ type any unknown
!
voice translation-rule 90211637
rule 1 /^9011637\(.*\)/ /1637\1/ type any subscriber

```

```

!
voice translation-rule 90221637
  rule 1 /^9011637\(.*\)/ /1637\1/ type any unknown
!
!
voice translation-profile POTSIN21
  translate called 212
!
voice translation-profile POTSIN91
  translate calling 911
  translate called 912
!
voice translation-profile POTSIN911637
  translate calling 9111637
  translate called 9121637
!
voice translation-profile POTSOUT9011
  translate calling 9011
  translate called 9021
!
voice translation-profile POTSOUT90111637
  translate calling 90111637
  translate called 90211637
!
voice translation-profile POTSOUT9012
  translate calling 9011
  translate called 9022
!
voice translation-profile POTSOUT90121637
  translate calling 90111637
  translate called 90221637
!
voice translation-profile POTSOUT9021
  translate calling 9012
  translate called 9021
!
voice translation-profile POTSOUT90211637
  translate calling 90121637
  translate called 90211637
!
voice translation-profile POTSOUT9022
  translate calling 9012
  translate called 9022
!
voice translation-profile POTSOUT90221637
  translate calling 90121637
  translate called 90221637
!
voice translation-profile VOIPIN81
  translate called 812
!
voice translation-profile VOIPOUT10
  translate called 102
!
voice translation-profile VOIPOUT80
  translate called 802
!
voice-card 0
  dspfarm
  dsp services dspfarm
!
voice-card 1
  dspfarm
  dsp services dspfarm

```

```

!
!
application
service hucsntvoip flash:hucsntvoip.tcl
  param calltype1 9
  param rid1 0100
  param srstmode off
  param ridlength 4
  param rangedigits1 1
  param cpidlength 2
  param e164rangestart1 111000
  param gwlocationid 10
  param gwfnid 150
  param natcode1 1637
  param cpid1 01
  param rangesize1 10
  param e164rangeprefix1 11100
  param fintrangestart1 0101001110000
  param fintrangeprefix1 010100111000
!
service hucsntpstn flash:hucsntpstn.tcl
  param srstmode off
  param ridlength 4
  param cpidlength 2
  param rangedigits1 1
  param e164rangeprefix7 6019999
  param natcode4 646
  param fintrangeprefix7 1001006019999
  param elincpid3 10
  param rangesize4 1
  param e164rangestart1 111000
  param gwfnid 150
  param e164rangeprefix2 6010001
  param fintrangeprefix2 1001006010001
  param pstnaccessprefix1 9
  param rangedigits5 0
  param natcode1 1637
  param countrycode 44
  param calltype9 9
  param e164rangestart5 6010004
  param rangesize1 10
  param calltype4 9
  param gwelinid 25
  param e164rangeprefix1 11100
  param elinslc2 601
  param fintrangestart8 1001006010006
  param fintrangeprefix1 010100111000
  param fintrangestart1 0101001110000
  param calltype1 9
!
license udi pid CISCO2821 sn FHK1344F3CJ
archive
  log config
  hidekeys
username admin privilege 15 secret 5 $1$aX76$2Ob4W8Mmvwg3riMGX2h3n1
username cisco privilege 15 secret 5 $1$..k5$qj9occu4mQRWv6bFilHn.
!
!
controller E1 0/1/0
  shutdown
  description E1 port of e2lgw
!
controller E1 0/1/1
!

```

```

interface GigabitEthernet0/0
 ip address 10.190.2.44 255.255.255.0
 duplex full
 speed 100
 h323-gateway voip interface
 h323-gateway voip bind srcaddr 10.190.2.44
 !
interface GigabitEthernet0/1
 ip address 10.191.2.44 255.255.255.0
 duplex full
 speed 100
 !
interface BRI0/0/0
 description BRI 0/0/0 - e1lgw2
 no ip address
 isdn switch-type basic-net3
 isdn protocol-emulate network
 isdn layer1-emulate network
 isdn incoming-voice voice
 isdn send-alerting
 isdn sending-complete
 isdn outgoing display-ie
 isdn skipsend-idverify
 !
interface BRI0/0/1
 no ip address
 isdn switch-type basic-net3
 isdn point-to-point-setup
 !
interface BRI1/0/0
 no ip address
 isdn switch-type basic-qsig
 isdn point-to-point-setup
 !
interface BRI1/0/1
 no ip address
 isdn switch-type basic-qsig
 isdn point-to-point-setup
 !
ip forward-protocol nd
 !
no ip http server
ip route 0.0.0.0 0.0.0.0 10.190.2.1
ip route 0.0.0.0 0.0.0.0 10.191.2.1 200
 !
access-list 23 permit 10.10.10.0 0.0.0.7
 !
control-plane
 !
 !
voice-port 0/0/0
 cptone GB
 !
voice-port 0/0/1
 !
voice-port 1/0/0
 !
voice-port 1/0/1
 !
dial-peer voice 11 voip
 translation-profile outgoing VOIPOUT10
 preference 1
 destination-pattern #1#T
 modem passthrough nse codec g711ulaw

```

```
session target ipv4:10.134.1.3
voice-class codec 1
voice-class h323 1
dtmf-relay h245-alphanumeric
fax rate 14400
no vad
!
dial-peer voice 81 voip
translation-profile outgoing VOIPOUT80
preference 1
destination-pattern #2#T
modem passthrough nse codec g711ulaw
session target ipv4:10.134.1.3
voice-class codec 1
voice-class h323 8
dtmf-relay h245-alphanumeric
fax rate 14400
no vad
!
dial-peer voice 12 voip
translation-profile outgoing VOIPOUT10
preference 2
destination-pattern #1#T
modem passthrough nse codec g711ulaw
session target ipv4:10.134.1.2
voice-class codec 1
voice-class h323 1
dtmf-relay h245-alphanumeric
fax rate 14400
no vad
!
dial-peer voice 82 voip
translation-profile outgoing VOIPOUT80
preference 2
destination-pattern #2#T
modem passthrough nse codec g711ulaw
session target ipv4:10.134.1.2
voice-class codec 1
voice-class h323 8
dtmf-relay h245-alphanumeric
fax rate 14400
no vad
!
dial-peer voice 8 voip
translation-profile incoming VOIPIN81
service hucsntvoip
incoming called-number .
voice-class codec 1
voice-class h323 8
dtmf-relay h245-alphanumeric
fax rate 14400
no vad
!
dial-peer voice 92 pots
translation-profile incoming POTSIN91
translation-profile outgoing POTSOUT9011
preference 1
service hucsntpstn
destination-pattern 90[123456789]T
no digit-strip
direct-inward-dial
port 0/0/0
no register e164
!
```

```
dial-peer voice 921637 pots
 translation-profile incoming POTSIN911637
 translation-profile outgoing POTSOUT90111637
 preference 1
 service hucsntpstn
 destination-pattern 9011637T
 no digit-strip
 direct-inward-dial
 port 0/0/0
 no register e164
!
gateway
 timer receive-rtcp 1200
!
gatekeeper
 shutdown
!
line con 0
 login local
line aux 0
line vty 0 4
 privilege level 15
 password cisco
 login
 transport input telnet
line vty 5 15
 privilege level 15
 password cisco
 login
 transport input telnet
!
scheduler allocate 20000 1000
end
```