



## ローカル ゲートウェイ コンフィギュレーション

このマニュアルでは、ローカル ゲートウェイ コンフィギュレーションの例について説明します。このマニュアルで取り上げる内容は次のとおりです。

- 「PRI ポートのローカル ゲートウェイ コンフィギュレーション」 (P.H-1)
- 「BRI ポートのローカル ゲートウェイ コンフィギュレーション」 (P.H-7)

## PRI ポートのローカル ゲートウェイ コンフィギュレーション

ここでは、参考のために、(USM 経由で供給される) PRI ポートを使用してローカル ゲートウェイのコンフィギュレーションを実行する例について説明します。

```
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
!
```

## PRI ポートのローカル ゲートウェイ コンフィギュレーション

```

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
!
```

## PRI ポートのローカル ゲートウェイ コンフィギュレーション

```
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 VOIPOINT10
  translate called 102
!
voice translation-profile VOIPOINT80
  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 pstnpublicnum1 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
!
```

## PRI ポートのローカル ゲートウェイ コンフィギュレーション

```
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 hucsnstpstn
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
```

## BRI ポートのローカル ゲートウェイ コンフィギュレーション

ここでは、参考のために、BRI ポートを使用してローカル ゲートウェイのコンフィギュレーションを実行する例について説明します。

```
e1lgw2#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$qj9occu4mQRWvv6bFilHn.
!
!
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
```

## ■ BRI ポートのローカル ゲートウェイ コンフィギュレーション

```
preference 1
service hucsntpstn
destination-pattern 9011637T
no digit-strip
direct-inward-dial
port 0/0/0
no register e164
!
gateway
timer receive-rtp 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
```