

具有閘道管理員的VoIP

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簡介

本文說明如何使用網守配置和驗證VoIP網路。

必要條件

需求

本文件沒有特定需求。

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- Cisco IOS®軟體版本12.1(1)
- Cisco AS5300和Cisco 3640路由器

注意：對於所有Cisco平台上的網守功能，需要載入Cisco IOS功能集 — x-。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 (預設) 的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

背景資訊

網守是LAN上的H.323實體，為H.323終端和網關提供地址轉換和控制對LAN的訪問。網守可以為H.323終端和網關提供其它服務，例如頻寬管理和網關的位置。閘道管理員維護多媒體網路中的裝置的註冊。裝置在啟動時向網守註冊，並從網守請求對呼叫的許可。

您可以使用本檔案中的閘道管理員組態來實現以下目的：

- 幫助擴展VoIP實施，在此實施中，您安裝了多個網關和終端裝置此組態會允許在中心點 (閘道管理員) 進行變更。
- 幫助控制呼叫准入控制(CAC)，以限制網路上的呼叫數量
- 實施在網路上使用代理與資料流量分開處理VoIP呼叫

設定

本節提供用於設定本文件中所述功能的資訊。

注意：要查詢有關本文檔中使用的命令的其他資訊，請使用[命令查詢工具](#)([僅限註冊客戶](#))。

網路圖表

此網路是帶有兩個Cisco AS5300網關的簡單拓撲。一個網關位於聖何塞，另一個網關位於羅利。每個站點都有一個在Cisco 3640上運行的網守配置。在本部分顯示的拓撲中，網守實際上並不是兩個網關之間放置簡單VoIP呼叫所必需的。但此圖包含一個網守，以顯示完整配置的顯示方式。

此拓撲的Cisco網守配置與常規VoIP實施存在以下區別：

- 網關設定的每個網關使用**h323-gateway voip interface**命令向本地網關管理員註冊。在本例中，網關是AS5300，而網守是3640。
- **dial-peer voice 2 voip**命令中的**session target**指向Registration、Admission和Status(RAS)，而不是相應的**ipv4:ip地址**。RAS執行以下任務：定義網關向網守註冊的位置為每個呼叫傳送准入請求對呼叫執行某些狀態資訊輪詢

在H.323網路中，每個區域有一個主網守。網守可以控制區域中的多個網關或終端H.323裝置。在本節說明的配置中，呼叫路由到相應的區域和網守。然後，網守使用具有匹配被叫號碼的技術字首 (**tech-prefix**) 的註冊網關的IP地址回覆呼叫請求。



呼叫過程

以下步驟說明了網守進程的運作方式。Raleigh端的一部電話呼叫聖何塞端的一部電話：

1. Raleigh 5300A接收來自PBX的呼叫至4085556400，後者是連線到San Jose PBX的電話。此號碼與dial-peer voice 2 voip下的號碼相符，也具有技術字首408#。
2. Raleigh閘道管理員Raleigh 3640A的准入請求包括技術字首和被叫號碼，格式為**408#4085556400**。4085556400與zone prefix命令相符408.....
3. Raleigh網守向San Jose網守(San Jose 3640A)傳送位置請求。
4. 由於San Jose網守配置包含技術字首為408#的San Jose 5300A，因此San Jose網守使用San Jose 5300 IP地址回覆Raleigh網守。
5. 此IP位址透過認可確認(ACF)轉送到Raleigh 5300A。
6. Raleigh 5300A與San Jose 5300A開啟正常的H.323呼叫。

組態

本檔案會使用以下設定：

- [Raleigh 5300A](#)
- [Raleigh 3640A](#)
- [San Jose 5300A](#)
- [San Jose 3640A](#)

Raleigh 5300A

```
Raleigh5300A# show run
Building configuration...

Current configuration:
!
! Last configuration change at 00:15:38 UTC Tue Mar 28
2000
! NVRAM config last updated at 00:15:39 UTC Tue Mar 28
2000
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Raleigh5300A
!
```

```
logging buffered 50000 debugging
enable secret < password > [Choose a strong password
with at least one capital letter, one number, and one
special character.]
!
!
!
resource-pool disable
!
!
!
!
!
clock calendar-valid
ip subnet-zero
!
isdn switch-type primary-5ess
isdn voice-call-failure 0
mta receive maximum-recipients 0
!
!
controller T1 0
    framing esf
    clock source line primary
    linecode b8zs
    pri-group timeslots 1-24
!
controller T1 1
    clock source line secondary 1
!
controller T1 2
!
controller T1 3
!
!
voice-port 0:D
!
!
dial-peer voice 1 pots
    answer-address 9195552001
    destination-pattern 919#9195552...
    direct-inward-dial
    port 0:D
    prefix 919
!
dial-peer voice 2 voip
    destination-pattern 4085556400
    tech-prefix 408#
    session target ras
!
num-exp 6... 4085556...
    gateway

!
interface Ethernet0
    no ip address
    shutdown
!
interface Serial0:23
    no ip address
    ip mroute-cache
    isdn switch-type primary-5ess
    isdn incoming-voice modem
    fair-queue 64 256 0
```

```
no cdp enable
!
interface FastEthernet0
 ip address 172.16.120.2 255.255.255.0
 duplex auto
 speed auto
 h323-gateway voip interface
 h323-gateway voip id RALgk1 ipaddr 172.16.120.1 1718
 h323-gateway voip h323-id RAL5300A@cisco.com
 h323-gateway voip tech-prefix 919#
!
ip classless
ip route 172.16.110.0 255.255.255.0 172.16.120.10
no ip http server
!
line con 0
 transport input none
line 1 48
 transport output lat pad telnet rlogin udptn v120
lapb-ta
line aux 0
line vty 0 4
 password cisco
 login
!
ntp clock-period 17179850
ntp server 172.16.110.10
end
```

Raleigh 3640A

```
Raleigh3640A# show run
Building configuration...

Current configuration:
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Raleigh3640A
!
logging buffered 50000 debugging
enable secret < password > [Choose a strong password
with at least one capital letter, one number, and one
special character.]
!
!
!
!
!
ip subnet-zero
!
ip dvmrp route-limit 20000
!
!
!
!
!
interface Ethernet1/0
 ip address 172.16.120.1 255.255.255.0
```

```
!  
interface Serial1/0  
  no ip address  
  no ip mroute-cache  
  no fair-queue  
!  
interface TokenRing1/0  
  no ip address  
  shutdown  
  ring-speed 16  
!  
ip classless  
ip route 172.16.110.0 255.255.255.0 172.16.120.10  
no ip http server  
!  
!  
gatekeeper  
  zone local RALgk1 cisco.com  
  zone remote SJgk1 cisco.com 172.16.110.1 1719  
  zone prefix SJgk1 408.....  
  gw-type-prefix 408#*  
  no shutdown  
!  
!  
line con 0  
  transport input none  
line aux 0  
line vty 0 4  
  password cisco  
  login  
!  
ntp clock-period 17179864  
ntp server 172.16.110.10  
end
```

San Jose 5300A

```
SanJose5300A# show run  
Building configuration...  
  
Current configuration:  
!  
! Last configuration change at 00:15:49 UTC Tue Mar 28  
2000  
! NVRAM config last updated at 00:15:50 UTC Tue Mar 28  
2000  
!  
version 12.1  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname SanJose5300A  
!  
logging buffered 50000 debugging  
enable secret < password > [Choose a strong password  
with at least one capital letter, one number, and one  
special character.]  
!  
!  
!  
resource-pool disable
```

```
!  
!  
!  
!  
!  
ip subnet-zero  
!  
isdn voice-call-failure 0  
mta receive maximum-recipients 0  
!  
!  
controller T1 0  
    framing esf  
    clock source line primary  
    linecode b8zs  
    ds0-group 1 timeslots 1-4 type e&m-immediate-start  
!  
controller T1 1  
    clock source line secondary 1  
!  
controller T1 2  
!  
controller T1 3  
!  
!  
voice-port 0:1  
!  
!  
dial-peer voice 1 pots  
    answer-address 4085556001  
    destination-pattern 408#4085556...  
    direct-inward-dial  
    port 0:1  
    prefix 6  
!  
dial-peer voice 2 voip  
    destination-pattern 9195552...  
    tech-prefix 919#  
    session target ras  
!  
num-exp 2... 9195552...  
gateway  
  
!  
interface Ethernet0  
no ip address  
!  
interface FastEthernet0  
    ip address 172.16.110.2 255.255.255.0  
    duplex auto  
    speed auto  
    h323-gateway voip interface  
    h323-gateway voip id SJgk1 ipaddr 172.16.110.1 1718  
    h323-gateway voip h323-id SJ5300A@cisco.com  
    h323-gateway voip tech-prefix 408#  
!  
ip classless  
ip route 172.16.120.0 255.255.255.0 172.16.110.10  
no ip http server  
!  
!  
!  
line con 0  
    transport input none
```

```
line aux 0
line vty 0 4
  password cisco
  login
!
ntp clock-period 17179892
ntp server 172.16.110.10
end
```

San Jose 3640A

```
SanJose3640A# show run
Building configuration...

Current configuration:
!
! NVRAM config last updated at 00:05:33 UTC Tue Mar 28
2000
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname SanJose3640A
!
boot system flash c3640-ix-mz.120-7.T
logging buffered 50000 debugging
enable secret < password > [Choose a strong password
with at least one capital letter, one number, and one
special character.]
!
!
!
!
!
ip subnet-zero
!
ip dvmrp route-limit 20000
!
!
interface Ethernet1/0
  ip address 172.16.110.1 255.255.255.0
!
interface Serial1/0
  no ip address
  no ip mroute-cache
  shutdown
  no fair-queue
!
interface Ethernet1/1
  no ip address
  shutdown
!
ip classless
ip route 172.16.120.0 255.255.255.0 172.16.110.10
no ip http server
!
tftp-server flash:c3640-ix-mz.121-1.bin
!
gatekeeper
  zone local SJgk1 cisco.com
```



```
zone remote RALgk1 cisco.com 172.16.120.1 1719
zone prefix RALgk1 919.....
gw-type-prefix 919#*
no shutdown
!
!
line con 0
  transport input none
line aux 0
line vty 0 4
  password cisco
  login
!
ntp server 172.16.110.10
end
```

驗證

本節提供的資訊可用於確認您的組態是否正常運作。

[輸出直譯器工具](#)(僅供[註冊](#)客戶使用)支援某些**show**命令，此工具可讓您檢視**show**命令輸出的分析。

- **show debug** — 顯示已啟用的debug命令
- **undebug all** — 關閉所有調試
- **show gatekeeper** — 顯示網守的狀態
- **show log** — 顯示日誌檔案輸出
- **show call active voice brief** — 顯示活動呼叫表內容的縮寫版本該螢幕顯示了當前通過路由器連線的所有呼叫。
- **show call active voice** — 顯示活動呼叫表的內容此顯示顯示了當前通過路由器連線的所有呼叫。
- **show gatekeeper endpoints** — 向網守顯示端點註冊狀態
- **show gatekeeper call** — 顯示網守處理的活動呼叫
- **show gatekeeper gw** — 顯示技術首碼的端點註冊狀態

[Raleigh 5300A路由器的驗證](#)

```
Raleigh5300A# show debug
ISDN:
  ISDN Q931 packets debugging is on
  ISDN Q931 packets debug DSLs. (On/Off/No DSL:1/0/-)
  DSL 0 --> 7
  1 - - - - -

H.323 RAS:
  H.323 RAS Messages debugging is on
voip:
  voip ccAPI function enter/exit debugging is on
Raleigh5300A# undebug all
All possible debugging has been turned off
Raleigh5300A# show gatekeeper
Gateway RAL5300A@cisco.com is registered to Gatekeeper RALgk1
```

```
Alias list (CLI configured)
H323-ID RAL5300A@cisco.com
```

Alias list (last RCF)
H323-ID RAL5300A@cisco.com

H323 resource thresholding is Disabled

Raleigh5300A# **show log**

Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)

Console logging: level debugging, 1048 messages logged

Monitor logging: level debugging, 0 messages logged

Buffer logging: level debugging, 1048 messages logged

Trap logging: level informational, 106 message lines logged

Log Buffer (50000 bytes):

```
Mar 28 00:22:47.624: ISDN Se0:23: RX <- SETUP pd = 8 callref = 0x30
Mar 28 00:22:47.624: Bearer Capability i = 0x8090A2
Mar 28 00:22:47.624: Channel ID i = 0xA98393
Mar 28 00:22:47.624: Calling Party Number i = 0x2180, '9195552010', Plan:ISDN,
Type:National
Mar 28 00:22:47.624: Called Party Number i = 0xA1, '4085556400', Plan:ISDN,
Type:National
Mar 28 00:22:47.628: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8030
Mar 28 00:22:47.628: Channel ID i = 0xA98393
Mar 28 00:22:47.628: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0x8030
Mar 28 00:22:48.016: cc_api_call_setup_ind (vdbPtr=0x61B9ADAC,
callInfo={called=4085556400,
calling=9195552010, fdest=1 peer_tag=1}, callID=0x61A088C4)
Mar 28 00:22:48.020: cc_process_call_setup_ind (event=0x61BB71B8)
handed call to app "SESSION"
Mar 28 00:22:48.020: sess_appl: ev(23=CC_EV_CALL_SETUP_IND), cid(32), disp(0)
Mar 28 00:22:48.020: ccCallSetContext (callID=0x20, context=0x61A2C368)
Mar 28 00:22:48.020: ssaCallSetupInd finalDest cllng(9195552010),
clled(4085556400)
Mar 28 00:22:48.020: ssaSetupPeer cid(32) peer list: tag(2)
called number (4085556400)
Mar 28 00:22:48.020: ssaSetupPeer cid(32), destPat(4085556400),
matched(10), prefix(),
peer(61C088AC)
Mar 28 00:22:48.020: ccCallProceeding (callID=0x20, prog_ind=0x0)
Mar 28 00:22:48.020: ccCallSetupRequest (Inbound call = 0x20, outbound
peer =2, dest=,
params=0x61A2C37C mode=0, *callID=0x61BBE868)
Mar 28 00:22:48.020: callingNumber=9195552010, calledNumber=4085556400,
redirectNumber=
Mar 28 00:22:48.020: accountNumber=, finalDestFlag=1,
guid=1acb.27d8.98f4.0043.0000.0000.205d.0abc
Mar 28 00:22:48.020: peer_tag=2
Mar 28 00:22:48.020: ccIFCallSetupRequest: (vdbPtr=0x6174EC64, dest=, callParams=
{called=4085556400, calling=9195552010, fdest=1, voice_peer_tag=2}, mode=0x0)
Mar 28 00:22:48.020: ccCallSetContext (callID=0x21, context=0x61A8FD88)
Mar 28 00:22:48.024: RASLib::ras_sendto: msg length 115 from 172.16.120.2:51726 to
172.16.120.1:1719
Mar 28 00:22:48.024: RASLib::RASSendARQ: ARQ (seq# 12119) sent to 172.16.120.1
Mar 28 00:22:48.028: RASLib::RASRecvData: successfully
rcvd message of length 7 from 172.16.120.1:1719
Mar 28 00:22:48.028: RASLib::RASRecvData: RIP (seq# 12119) rcvd
from [172.16.120.1:1719] on sock[61A18664]
Mar 28 00:22:48.044: RASLib::RASRecvData: successfully rcvd message
of length 24 from 172.16.120.1:1719
Mar 28 00:22:48.044: RASLib::RASRecvData: ACF (seq# 12119)
rcvd from [172.16.120.1:1719] on sock [0x61A18664]
Mar 28 00:22:49.232: cc_api_call_alert(vdbPtr=0x6174EC64,
callID=0x21, prog_ind=0x8, sig_ind=0x1)
Mar 28 00:22:49.232: sess_appl: ev(7=CC_EV_CALL_ALERT), cid(33), disp(0)
Mar 28 00:22:49.232: ssaTraceSct: cid(33)st(1)oldst(0)cfid(-1)
```

```
csize(0)in(0)fDest(0)-cid2(32)st2(1)oldst2(0)
Mar 28 00:22:49.232: ccCallAlert (callID=0x20, prog_ind=0x8, sig_ind=0x1)
Mar 28 00:22:49.232: ccConferenceCreate (confID=0x61BBE8B0,
callID1=0x20, callID2=0x21, tag=0x0)
Mar 28 00:22:49.232: cc_api_bridge_done (confID=0xD, srcIF=0x6174EC64,
srcCallID=0x21,
dstCallID=0x20, disposition=0, tag=0x0)
Mar 28 00:22:49.232: cc_api_bridge_done (confID=0xD,
srcIF=0x61B9ADAC, srcCallID=0x20,
dstCallID=0x21, disposition=0, tag=0x0)
Mar 28 00:22:49.232: cc_api_caps_ind (dstVdbPtr=0x6174EC64,
dstCallId=0x21, srcCallId=0x20,
caps={codec=0xEBF7, fax_rate=0xFF, vad=0x3, modem=0x3
codec_bytes=1638535964, signal_type=2})
Mar 28 00:22:49.236: sess_appl: ev(28=CC_EV_CONF_CREATE_DONE), cid(32), disp(0)
Mar 28 00:22:49.236: ssaTraceSct: cid(32)st(3)oldst(0)cfid(13)
csize(0)in(1)fDest(1)-cid2(33)st2(3)oldst2(1)
Mar 28 00:22:49.844: cc_api_caps_ind (dstVdbPtr=0x61B9ADAC,
dstCallId=0x20, srcCallId=0x21,
caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
codec_bytes=20, signal_type=0})
Mar 28 00:22:49.844: cc_api_caps_ack (dstVdbPtr=0x61B9ADAC,
dstCallId=0x20, srcCallId=0x21,
caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
codec_bytes=20, signal_type=0})
Mar 28 00:22:49.848: cc_api_caps_ack (dstVdbPtr=0x6174EC64,
dstCallId=0x21, srcCallId=0x20,
caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
codec_bytes=20, signal_type=0})
Mar 28 00:22:51.504: cc_api_call_connected(vdbPtr=0x6174EC64, callID=0x21)
Mar 28 00:22:51.508: sess_appl: ev(8=CC_EV_CALL_CONNECTED), cid(33), disp(0)
Mar 28 00:22:51.508: ssaTraceSct: cid(33)st(4)oldst(1)cfid(13)
csize(0)in(0)fDest(0)-cid2(32)st2(4)oldst2(3)
Mar 28 00:22:51.508: ccCallConnect (callID=0x20)
Mar 28 00:22:51.508: ssaFlushPeerTagQueue cid(32) peer list: (empty)
Mar 28 00:22:51.508: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0x8030
Mar 28 00:22:51.564: ISDN Se0:23: RX <- CONNECT_ACK pd = 8 callref = 0x30
Mar 28 00:22:51.564: ISDN Se0:23: CALL_PROGRESS:
CALL_CONNECTED call id 0x11, bchan -1, dsl 0
Mar 28 00:22:54.620: cc_api_call_digit_begin
(vdbPtr=0x61B9ADAC, callID=0x20, digit=1, flags=0x1,
timestamp=0xCAA06B, expiration=0x0)
Mar 28 00:22:54.620: sess_appl: ev(10=CC_EV_CALL_DIGIT_BEGIN),
cid(32), disp(0)
Mar 28 00:22:54.620: ssaTraceSct: cid(32)st(5)oldst(3)cfid(13)
csize(0)in(1)fDest(1)-cid2(33)st2(5)
oldst2(4)
Mar 28 00:22:54.620: ccCallDigitBegin (callID=0x21, db=0x61BBE8EC)
Mar 28 00:22:54.700: cc_api_call_digit (vdbPtr=0x61B9ADAC,
callID=0x20, digit=1, duration=130)
Mar 28 00:22:54.700: sess_appl: ev(9=CC_EV_CALL_DIGIT), cid(32), disp(0)
Mar 28 00:22:54.700: ssaTraceSct: cid(32)st(5)oldst(5)cfid(13)
csize(0)in(1)fDest(1)-cid2(33)st2(5)
oldst2(4)
Mar 28 00:22:54.700: ccCallDigitEnd (callID=0x21, de=0x61BBE8EC)
Mar 28 00:22:55.120: ISDN Se0:23: RX <- DISCONNECT pd = 8 callref = 0x30
Mar 28 00:22:55.120: Cause i = 0x8090 - Normal call clearing
Mar 28 00:22:55.120: %ISDN-6-DISCONNECT: Interface Serial0:18
disconnected from 9195552010 , call lasted 3 seconds
Mar 28 00:22:55.124: ISDN Se0:23: TX -> RELEASE pd = 8 callref = 0x8030
Mar 28 00:22:55.124: cc_api_call_disconnected(vdbPtr=0x61B9ADAC,
callID=0x20, cause=0x10)
Mar 28 00:22:55.124: sess_appl: ev(12=CC_EV_CALL_DISCONNECTED),
cid(32), disp(0)
```

```

Mar 28 00:22:55.124: ssaTraceSct: cid(32)st(5)oldst(5)cfid(13)
csize(0)in(1)fDest(1)-cid2(33)st2(5)oldst2(4)
Mar 28 00:22:55.124: ssa: Disconnected cid(32) state(5) cause(0x10)
Mar 28 00:22:55.124: ccConferenceDestroy (confID=0xD, tag=0x0)
Mar 28 00:22:55.124: cc_api_bridge_drop_done (confID=0xD,
srcIF=0x6174EC64, srcCallID=0x21,
dstCallID=0x20, disposition=0 tag=0x0)
Mar 28 00:22:55.124: cc_api_bridge_drop_done (confID=0xD,
srcIF=0x61B9ADAC, srcCallID=0x20,
dstCallID=0x21, disposition=0 tag=0x0)
Mar 28 00:22:55.124: sess_appl: ev(29=CC_EV_CONF_DESTROY_DONE), cid(32), disp(0)
Mar 28 00:22:55.124: ssaTraceSct: cid(32)st(6)oldst(5)cfid(-1)
csize(0)in(1)fDest(1)-cid2(33)st2(6)oldst2(4)
Mar 28 00:22:55.124: ccCallDisconnect (callID=0x20, cause=0x10 tag=0x0)
Mar 28 00:22:55.124: ccCallDisconnect (callID=0x21, cause=0x10 tag=0x0)
Mar 28 00:22:55.128: RASlib::ras_sendto: msg length 76 from 172.16.120.2:51726 to
172.16.120.1:1719
Mar 28 00:22:55.128: RASlib::RASSendDRQ: DRQ (seq# 12120) sent to 172.16.120.1
Mar 28 00:22:55.132: RASlib::RASRecvData: successfully rcvd message
of length 3 from 172.16.120.1:1719
Mar 28 00:22:55.132: RASlib::RASRecvData: DCF (seq# 12120) rcvd
from [172.16.120.1:1719] on sock [0x61A18664]
Mar 28 00:22:55.132: cc_api_call_disconnect_done(vdbPtr=0x6174EC64,
callID=0x21, disp=0, tag=0x0)
Mar 28 00:22:55.132: sess_appl: ev(13=CC_EV_CALL_DISCONNECT_DONE),
cid(33), disp(0)
Mar 28 00:22:55.132: ssaTraceSct: cid(33)st(7)oldst(4)cfid(-1)
csize(0)in(0)fDest(0)-cid2(32)st2(7)oldst2(6)
Mar 28 00:22:55.140: cc_api_call_disconnect_done(vdbPtr=0x61B9ADAC,
callID=0x20, disp=0, tag=0x0)
Mar 28 00:22:55.140: sess_appl: ev(13=CC_EV_CALL_DISCONNECT_DONE), cid(32), disp(0)
Mar 28 00:22:55.140: ssaTraceSct: cid(32)st(7)oldst(6)cfid(-1)
csize(1)in(1)fDest(1)
Mar 28 00:22:55.172: ISDN Se0:23: RX <-  RELEASE_COMP pd = 8  callref = 0x30
Mar 28 00:23:14.251: RASlib::ras_sendto: msg length 76 from 172.16.120.2:51726 to
172.16.120.1:1719
Mar 28 00:23:14.251: RASlib::RASSendRRQ: RRQ (seq# 12121) sent to 172.16.120.1
Mar 28 00:23:14.255: RASlib::RASRecvData: successfully rcvd message
of length 52 from 172.16.120.1:1719
Mar 28 00:23:14.255: RASlib::RASRecvData: RCF (seq# 12121) rcvd
from [172.16.120.1:1719] on sock [0x61A18664]
Mar 28 00:23:59.255: RASlib::ras_sendto: msg length 76 from
172.16.120.2:51726 to 172.16.120.1:1719
Mar 28 00:23:59.255: RASlib::RASSendRRQ: RRQ (seq# 12122) sent to 172.16.120.1
Mar 28 00:23:59.259: RASlib::RASRecvData: successfully rcvd message
of length 52 from 172.16.120.1:1719
Mar 28 00:23:59.259: RASlib::RASRecvData: RCF (seq# 12122)
rcvd from [172.16.120.1:1719] on sock [0x61A18664]
Raleigh5300A#

```

Raleigh5300A# **show call active voice brief**

```

<ID>: <start>hs.<index> +<connect> pid:<peer_id> <dir>
<addr> <state>
  dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <state>
  IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
  delay:<last>/<min>/<max>ms <codec>
  FR <protocol><y/n><y/n><y/n><on/off> [int dici cid] vad: dtmf: seq:
  sig: <codec> (payload size)
  Tele <int>: tx:<tot>/<v>/<fax>ms <codec> noise:<l> acom:<l> i/o:<l>/<l> dBm

```

```

4B : 54320146hs.1 +1112 pid:1 Answer 9195552010 active
dur 00:00:15 tx:954/15972 rx:259/8288
Tele 0:D:36: tx:24500/5180/0ms g729r8 noise:-55 acom:0 i/o:-56/-44 dBm

```

4B : 54320146hs.2 +1112 pid:2 Originate 4085556400 active
dur 00:00:15 tx:259/5180 rx:954/19080
IP 172.16.110.2:17024 rtt:4ms pl:16250/0ms lost:0/0/0 delay:50/50/70ms g729r8

Raleigh5300A# **show call active voice**

GENERIC:

SetupTime=54320146 ms
Index=1
PeerAddress=9195552010
PeerSubAddress=
PeerId=1
PeerIfIndex=56
LogicalIfIndex=26
ConnectTime=54321258
CallDuration=00:00:24
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=2
TransmitPackets=1414
TransmitBytes=20900
ReceivePackets=615
ReceiveBytes=19680

TELE:

ConnectionId=[0x1ACB27D8 0x98F4004B 0x0 0x206098B4]
TxDuration=33700 ms
VoiceTxDuration=12300 ms
FaxTxDuration=0 ms
CoderTypeRate=g729r8
NoiseLevel=-55
ACOMLevel=0
OutSignalLevel=-45
InSignalLevel=-55
InfoActivity=2
ERLLevel=19
SessionTarget=
ImgPages=0

GENERIC:

SetupTime=54320146 ms
Index=2
PeerAddress=4085556400
PeerSubAddress=
PeerId=2
PeerIfIndex=57
LogicalIfIndex=0
ConnectTime=54321258
CallDuration=00:00:24
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=2
TransmitPackets=615
TransmitBytes=12300
ReceivePackets=1415
ReceiveBytes=28300

VOIP:

ConnectionId[0x1ACB27D8 0x98F4004B 0x0 0x206098B4]
RemoteIPAddress=172.16.110.2
RemoteUDPPort=17024
RoundTripDelay=4 ms

```
SelectedQoS=best-effort
tx_DtmfRelay=inband-voice
SessionProtocol=cisco
SessionTarget=ras
OnTimeRvPlayout=25900
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=50 ms
ReceiveDelay=50 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
Raleigh5300A#
```

Raleigh 3640A路由器的驗證

```
Raleigh3640A# show gatekeeper end
```

```
GATEKEEPER ENDPOINT REGISTRATION
```

```
=====
```

CallSignalAddr	Port	RASSignalAddr	Port	Zone Name	Type	F
172.16.120.2	1720	172.16.120.2	51726	RALgk1	VOIP-GW	

```
H323-ID: RAL5300A@cisco.com
```

```
Total number of active registrations = 1
```

```
Raleigh3640A# show gatekeeper gw
```

```
GATEWAY TYPE PREFIX TABLE
```

```
=====
```

```
Prefix: 408#*
```

```
Prefix: 919#*
```

```
Zone RALgk1 master gateway list:
```

```
172.16.120.2:1720 RAL5300A
```

```
Raleigh3640A# show log
```

```
Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)
```

```
Console logging: level debugging, 239 messages logged
```

```
Monitor logging: level debugging, 0 messages logged
```

```
Buffer logging: level debugging, 239 messages logged
```

```
Trap logging: level informational, 106 message lines logged
```

```
Log Buffer (50000 bytes):
```

```
Mar 28 00:22:48.019: RASLib::RASRecvData: successfully rcvd message of length 115 from 172.16.120.2:51726
```

```
Mar 28 00:22:48.019: RASLib::RASRecvData: ARQ (seq# 12119) rcvd from [172.16.120.2:51726] on sock [0x60F2F9A0] RASLib::parse_arq_nonstd: ARQ Nonstd decode succeeded, remlen = 0
```

```
Mar 28 00:22:48.023: RASLib::ras_sendto: msg length 7 from 172.16.120.1:1719 to 172.16.120.2:51726
```

```
Mar 28 00:22:48.023: RASLib::RASSendRIP: RIP (seq# 12119) sent to 172.16.120.2
```

```
Mar 28 00:22:48.023: RASLib::RAS_WK_TInit: ipsock [0x612328CC] setup
```

```

successful
Mar 28 00:22:48.027:      RASLib::ras_sendto: msg length 79 from
172.16.120.1:52893 to 172.16.110.1:1719
Mar 28 00:22:48.027: RASLib::RASSendLRQ: LRQ (seq# 20) sent to 172.16.110.1
Mar 28 00:22:48.035: RASLib::RASRecvData: successfully rcvd message of length
 128 from 172.16.110.1:1719
Mar 28 00:22:48.035:  RASLib::RASRecvData: LCF (seq# 20) rcvd from
[172.16.110.1:1719] on sock [0x612328CC] RASLib::parse_lcf_nonstd:
LCF Nonstd decode succeeded, remlen = 0
Mar 28 00:22:48.039: RASLib::ras_sendto: msg length 24 from 172.16.120.1:1719 to
 172.16.120.2:51726
Mar 28 00:22:48.039: RASLib::RASSendACF: ACF (seq# 12119) sent to 172.16.120.2
Mar 28 00:22:55.123: RASLib::RASRecvData: successfully rcvd message of length
 76 from 172.16.120.2:51726
Mar 28 00:22:55.123: RASLib::RASRecvData: DRQ (seq# 12120) rcvd from
[172.16.120.2:51726] on sock [0x60F2F9A0]
Mar 28 00:22:55.127: RASLib::ras_sendto: msg length 3 from 172.16.120.1:1719 to
172.16.120.2:51726
Mar 28 00:22:55.127: RASLib::RASSendDCF: DCF (seq# 12120) sent to 172.16.120.2
Mar 28 00:23:14.247: RASLib::RASRecvData: successfully rcvd message of length 76
  from 172.16.120.2:51726
Mar 28 00:23:14.251: RASLib::RASRecvData: RRQ (seq# 12121) rcvd from
 [172.16.120.2:51726] on sock [0x60F2F9A0]
Mar 28 00:23:14.251: RASLib::ras_sendto: msg length 52 from 172.16.120.1:1719 to
 172.16.120.2:51726
Mar 28 00:23:14.251: RASLib::RASSendRCF: RCF (seq# 12121) sent to 172.16.120.2
Mar 28 00:23:59.251: RASLib::RASRecvData: successfully rcvd message of length 76
 from 172.16.120.2:51726
Mar 28 00:23:59.251: RASLib::RASRecvData: RRQ (seq# 12122) rcvd from
[172.16.120.2:51726] on sock [0x60F2F9A0]
Mar 28 00:23:59.255: RASLib::ras_sendto: msg length 52 from
172.16.120.1:1719 to 172.16.120.2:51726
Mar 28 00:23:59.255: RASLib::RASSendRCF: RCF (seq# 12122) sent to 172.16.120.2
Mar 28 00:24:44.255: RASLib::RASRecvData: successfully rcvd message of length 76
 from 172.16.120.2:51726
Mar 28 00:24:44.255: RASLib::RASRecvData: RRQ (seq# 12123) rcvd from
[172.16.120.2:51726] on sock [0x60F2F9A0]
Mar 28 00:24:44.259: RASLib::ras_sendto: msg length 52 from 172.16.120.1:1719
  to 172.16.120.2:51726
Mar 28 00:24:44.259: RASLib::RASSendRCF: RCF (seq# 12123) sent to 172.16.120.2
Raleigh3640A#

```

Raleigh3640A# **show gatekeeper call**

Total number of active calls = 1.

GATEKEEPER CALL INFO
=====

LocalCallID	Age(secs)	BW			
18-6872	41	64(Kbps)			
Endpt(s): Alias	E.164Addr	CallSignalAddr	Port	RASSignalAddr	Port
src EP: RAL5300A	9195552010	172.16.120.2	1720	172.16.120.2	51726
dst EP:	408#408555640	172.16.110.2	1720	172.16.110.2	1720

Raleigh3640A#

[驗證San Jose 5300A路由器](#)

SanJose5300A# **show gatekeeper**

Gateway SJ5300A@cisco.com is registered to Gatekeeper SJgk1

Alias list (CLI configured)

H323-ID SJ5300A@cisco.com
Alias list (last RCF)
H323-ID SJ5300A@cisco.com

H323 resource thresholding is Disabled

SanJose5300A# **show log**

Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)
Console logging: level debugging, 1695 messages logged
Monitor logging: level debugging, 0 messages logged
Buffer logging: level debugging, 1695 messages logged
Trap logging: level informational, 96 message lines logged

Log Buffer (50000 bytes):

Mar 28 00:22:48.043: RASLib::ras_sendto: msg length 122 from
172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:22:48.043: RASLib::RASSendARQ: ARQ (seq# 12092) sent to
172.16.110.1
Mar 28 00:22:48.047: RASLib::RASRecvData: successfully rcvd message of length
24 from 172.16.110.1:1719
Mar 28 00:22:48.047: RASLib::RASRecvData: ACF (seq# 12092) rcvd from
[172.16.110.1:1719] on sock [0x61752218]
Mar 28 00:22:48.047: cc_api_call_setup_ind (vdbPtr=0x616F8D2C,
callInfo={called=408#4085556400,
calling=9195552010, fdest=1 peer_tag=2}, callID=0x6199B54C)
Mar 28 00:22:48.051: cc_process_call_setup_ind (event=0x619B3954)
handed call to app "SESSION"
Mar 28 00:22:48.051: sess_appl: ev(23=CC_EV_CALL_SETUP_IND), cid(25), disp(0)
Mar 28 00:22:48.051: ccCallSetContext (callID=0x19, context=0x61A643D8)
Mar 28 00:22:48.051: ssaCallSetupInd finalDest cllng(9195552010),
clled(408#4085556400)
Mar 28 00:22:48.051: ssaSetupPeer cid(25) peer list: tag(1)
called number (408#4085556400)
Mar 28 00:22:48.051: ssaSetupPeer cid(25), destPat(408#4085556400),
matched(11), prefix(6),
peer(61A03B88)
Mar 28 00:22:48.051: ccCallProceeding (callID=0x19, prog_ind=0x0)
Mar 28 00:22:48.051: ccCallSetupRequest (Inbound call = 0x19,
outbound peer =1, dest=,
params=0x61A643EC mode=0, *callID=0x619BB9F0)
Mar 28 00:22:48.051: callingNumber=9195552010, calledNumber=408#4085556400,
redirectNumber=
Mar 28 00:22:48.051: accountNumber=, finalDestFlag=1,
guid=1acb.27d8.98f4.0043.0000.0000.205d.0abc
Mar 28 00:22:48.051: peer_tag=1
Mar 28 00:22:48.051: ccIFCallSetupRequest: (vdbPtr=0x619AC884,
dest=, callParams=
{called=408#4085556400, calling=9195552010, fdest=1, voice_peer_tag=1}, mode=0x0)
Mar 28 00:22:48.051: ccCallSetContext (callID=0x1A, context=0x61A6DCC8)
Mar 28 00:22:48.235: cc_api_call_proceeding(vdbPtr=0x619AC884, callID=0x1A,
prog_ind=0x0)
Mar 28 00:22:48.235: sess_appl: ev(20=CC_EV_CALL_PROCEEDING), cid(26), disp(0)
Mar 28 00:22:48.235: ssaTraceSct: cid(26)st(1)oldst(0)cfid(-1)
csize(0)in(0)fDest(0)-cid2(25)st2(1)oldst2(0)
Mar 28 00:22:48.235: ssaIgnore cid(26), st(1),oldst(1), ev(20)
Mar 28 00:22:49.215: cc_api_call_alert(vdbPtr=0x619AC884,
callID=0x1A, prog_ind=0x8, sig_ind=0x1)
Mar 28 00:22:49.215: sess_appl: ev(7=CC_EV_CALL_ALERT), cid(26), disp(0)
Mar 28 00:22:49.215: ssaTraceSct: cid(26)st(1)oldst(1)cfid(-1)csize(0)in(0)fDest(0)
-cid2(25)st2(1)oldst2(0)
Mar 28 00:22:49.215: ccCallAlert (callID=0x19, prog_ind=0x8, sig_ind=0x1)
Mar 28 00:22:49.215: ccConferenceCreate (confID=0x619BBA38, callID1=0x19,
callID2=0x1A, tag=0x0)

Mar 28 00:22:49.219: cc_api_bridge_done (confID=0xD, srcIF=0x616F8D2C, srcCallID=0x19, dstCallID=0x1A, disposition=0, tag=0x0)
Mar 28 00:22:49.219: cc_api_bridge_done (confID=0xD, srcIF=0x619AC884, srcCallID=0x1A, dstCallID=0x19, disposition=0, tag=0x0)
Mar 28 00:22:49.219: cc_api_caps_ind (dstVdbPtr=0x616F8D2C, dstCallId=0x19, srcCallId=0x1A, caps={codec=0xEBF7, fax_rate=0xFF, vad=0x3, modem=0x3codec_bytes=1637472312, signal_type=2})
Mar 28 00:22:49.219: sess_appl: ev(28=CC_EV_CONF_CREATE_DONE), cid(25), disp(0)
Mar 28 00:22:49.219: ssaTraceSct: cid(25)st(3)oldst(0)cfid(13) csize(0)in(1)fDest(1)-cid2(26)st2(3)oldst2(1)
Mar 28 00:22:49.631: cc_api_caps_ind (dstVdbPtr=0x619AC884, dstCallId=0x1A, srcCallId=0x19 caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1 codec_bytes=20, signal_type=0})
Mar 28 00:22:49.631: cc_api_caps_ack (dstVdbPtr=0x619AC884, dstCallId=0x1A, srcCallId=0x19, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1 codec_bytes=20, signal_type=0})
Mar 28 00:22:49.635: cc_api_caps_ack (dstVdbPtr=0x616F8D2C, dstCallId=0x19, srcCallId=0x1A, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1 codec_bytes=20, signal_type=0})
Mar 28 00:22:51.491: cc_api_call_connected(vdbPtr=0x619AC884, callID=0x1A)
Mar 28 00:22:51.491: sess_appl: ev(8=CC_EV_CALL_CONNECTED), cid(26), disp(0)
Mar 28 00:22:51.491: ssaTraceSct: cid(26)st(4)oldst(1)cfid(13) csize(0)in(0)fDest(0)-cid2(25)st2(4)oldst2(3)
Mar 28 00:22:51.491: ccCallConnect (callID=0x19)
Mar 28 00:22:51.491: ssaFlushPeerTagQueue cid(25) peer list: (empty)
Mar 28 00:22:55.119: cc_api_call_disconnected(vdbPtr=0x0, callID=0x19, cause=0x10)
Mar 28 00:22:55.119: sess_appl: ev(12=CC_EV_CALL_DISCONNECTED), cid(25), disp(0)
Mar 28 00:22:55.119: ssaTraceSct: cid(25)st(5)oldst(3)cfid(13) csize(0)in(1)fDest(1)-cid2(26) st2(5)oldst2(4)
Mar 28 00:22:55.119: ssa: Disconnected cid(25) state(5) cause(0x10)
Mar 28 00:22:55.119: ccConferenceDestroy (confID=0xD, tag=0x0)
Mar 28 00:22:55.119: cc_api_bridge_drop_done (confID=0xD, srcIF=0x616F8D2C, srcCallID=0x19, dstCallID=0x1A, disposition=0 tag=0x0)
Mar 28 00:22:55.119: cc_api_bridge_drop_done (confID=0xD, srcIF=0x619AC884, srcCallID=0x1A, dstCallID=0x19, disposition=0 tag=0x0)
Mar 28 00:22:55.119: sess_appl: ev(29=CC_EV_CONF_DESTROY_DONE), cid(25), disp(0)
Mar 28 00:22:55.119: ssaTraceSct: cid(25)st(6)oldst(5)cfid(-1) csize(0)in(1)fDest(1)-cid2(26)st2(6)oldst2(4)
Mar 28 00:22:55.119: ccCallDisconnect (callID=0x19, cause=0x10 tag=0x0)
Mar 28 00:22:55.119: ccCallDisconnect (callID=0x1A, cause=0x10 tag=0x0)
Mar 28 00:22:55.123: RASlib::ras_sendto: msg length 76 from 172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:22:55.123: RASlib::RASSendDRQ: DRQ (seq# 12093) sent to 172.16.110.1
Mar 28 00:22:55.127: RASlib::RASRecvData: successfully rcvd message of length 3 from 172.16.110.1:1719
Mar 28 00:22:55.127: RASlib::RASRecvData: DCF (seq# 12093) rcvd from [172.16.110.1:1719] on sock [0x61752218]
Mar 28 00:22:55.127: cc_api_call_disconnect_done(vdbPtr=0x0, callID=0x19, disp=0, tag=0x0)
Mar 28 00:22:55.127: sess_appl: ev(13=CC_EV_CALL_DISCONNECT_DONE), cid(25), disp(0)
Mar 28 00:22:55.127: ssaTraceSct: cid(25)st(7)oldst(6)cfid(-1) csize(0)in(1)fDest(1)-cid2(26)st2 (7)oldst2(4)
Mar 28 00:22:55.139: cc_api_call_disconnect_done(vdbPtr=0x619AC884, callID=0x1A, disp=0, tag=0x61A630BC)
Mar 28 00:22:55.139: sess_appl: ev(13=CC_EV_CALL_DISCONNECT_DONE), cid(26), disp(0)
Mar 28 00:22:55.139: ssaTraceSct: cid(26)st(7)oldst(4)cfid(-1) csize(1)in(0)fDest(0)

Mar 28 00:22:55.443: RASLib::ras_sendto: msg length 74 from 172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:22:55.443: RASLib::RASSendRRQ: RRQ (seq# 12094) sent to 172.16.110.1
Mar 28 00:22:55.447: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719
Mar 28 00:22:55.447: RASLib::RASRecvData: RCF (seq# 12094) rcvd from [172.16.110.1:1719] on sock [0x61752218]
Mar 28 00:23:40.448: RASLib::ras_sendto: msg length 74 from 172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:23:40.448: RASLib::RASSendRRQ: RRQ (seq# 12095) sent to 172.16.110.1
Mar 28 00:23:40.452: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719
Mar 28 00:23:40.452: RASLib::RASRecvData: RCF (seq# 12095) rcvd from [172.16.110.1:1719] on sock [0x61752218]
Mar 28 00:24:25.452: RASLib::ras_sendto: msg length 74 from 172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:24:25.452: RASLib::RASSendRRQ: RRQ (seq# 12096) sent to 172.16.110.1
Mar 28 00:24:25.456: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719
Mar 28 00:24:25.456: RASLib::RASRecvData: RCF (seq# 12096) rcvd from [172.16.110.1:1719] on sock [0x61752218]
Mar 28 00:25:10.457: RASLib::ras_sendto: msg length 74 from 172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:25:10.457: RASLib::RASSendRRQ: RRQ (seq# 12097) sent to 172.16.110.1
Mar 28 00:25:10.461: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719
Mar 28 00:25:10.461: RASLib::RASRecvData: RCF (seq# 12097) rcvd from [172.16.110.1:1719] on sock [0x61752218]
SanJose5300A#

Raleigh5300A# **show call active voice brief**

<ID>: <start>hs.<index> +<connect> pid:<peer_id> <dir> <addr> <state>
dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <state>
IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
delay:<last>/<min>/<max>ms <codec>
FR <protocol><y/n><y/n><y/n><on/off> [int dici cid] vad: dtmf: seq:
sig: <codec> (payload size)
Tele <int>: tx:<tot>/<v>/<fax>ms <codec> noise:<l> acom:<l> i/o:<l>/<l> dBm

4B : 54285525hs.1 +1107 pid:2 Answer 9195552010 active
dur 00:00:38 tx:2106/42120 rx:1023/20460
IP 172.16.120.2:17698 rtt:4ms pl:19920/0ms lost:0/0/0 delay:30/30/70ms g729r8

4B : 54285543hs.1 +1089 pid:1 Originate 408#4085556400 active
dur 00:00:38 tx:1023/-5040 rx:2125/68000
Tele 0:1 (30): tx:47730/42500/0ms g729r8 noise:-72 acom:0 i/0:-41/-41 dBm

SanJose5300A# **show call active voice**

GENERIC:
SetupTime=54285525 ms
Index=1
PeerAddress=9195552010
PeerSubAddress=
PeerId=2
PeerIfIndex=17
LogicalIfIndex=0
ConnectTime=54286632
CallDuration=00:00:44
CallState=4
CallOrigin=2

ChargedUnits=0
InfoType=2
TransmitPackets=2415
TransmitBytes=48300
ReceivePackets=1055
ReceiveBytes=21100
VOIP:
ConnectionId[0x1ACB27D8 0x98F4004B 0x0 0x206098B4]
RemoteIPAddress=172.16.120.2
RemoteUDPPort=17698
RoundTripDelay=65535 ms
SelectedQoS=best-effort
tx_DtmfRelay=inband-voice
SessionProtocol=cisco
SessionTarget=
OnTimeRvPlayout=21090
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=30 ms
ReceiveDelay=30 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
 GENERIC:
SetupTime=54285543 ms
Index=1
PeerAddress=408#4085556400
PeerSubAddress=
PeerId=1
PeerIfIndex=16
LogicalIfIndex=13
ConnectTime=54286632
CallDuration=00:00:44
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=2
TransmitPackets=1055
TransmitBytes=-8108
ReceivePackets=2434
ReceiveBytes=77888
TELE:
ConnectionId=[0x1ACB27D8 0x98F4004B 0x0 0x206098B4]
TxDuration=53920 ms
VoiceTxDuration=48690 ms
FaxTxDuration=0 ms
CoderTypeRate=g729r8
NoiseLevel=-72
ACOMLevel=0
OutSignalLevel=-71
InSignalLevel=-43
InfoActivity=2
ERLLevel=9
SessionTarget=
ImgPages=0
SanJose5300A#

驗證San Jose 3640A路由器

SanJose3640A# **show gatekeeper end**

GATEKEEPER ENDPOINT REGISTRATION

=====

CallSignalAddr	Port	RASSignalAddr	Port	Zone Name	Type	F
172.16.110.2	1720	172.16.110.2	52521	SJgk1	VOIP-GW	

H323-ID: SJ5300A@cisco.com

Total number of active registrations = 1

SanJose3640A# **show gatekeeper gw**

GATEWAY TYPE PREFIX TABLE

=====

Prefix: 919#*

Prefix: 408#*

Zone SJgk1 master gateway list:

172.16.110.2:1720 SJ5300A

SanJose3640A# **show log**

Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)

Console logging: level debugging, 1266 messages logged

Monitor logging: level debugging, 0 messages logged

Buffer logging: level debugging, 1258 messages logged

Trap logging: level informational, 102 message lines logged

Log Buffer (50000 bytes):

Mar 28 00:22:48.025: RASLib::RASRecvData: successfully rcvd message of length 79 from 172.16.120.1:52893

Mar 28 00:22:48.029: RASLib::RASRecvData: LRQ (seq# 20) rcvd from [172.16.120.1:52893] on sock [0x60FE9B04] RASLib::parse_lrq_nonstd: LRQ Nonstd decode succeeded, remlen = 0

Mar 28 00:22:48.033: RASlib::ras_sendto: msg length 128 from 172.16.110.1:1719 to 172.16.120.1:52893

Mar 28 00:22:48.033: RASLib::RASSendLCF: LCF (seq# 20) sent to 172.16.120.1

Mar 28 00:22:48.049: RASLib::RASRecvData: successfully rcvd message of length 122 from 172.16.110.2:52521

Mar 28 00:22:48.049: RASLib::RASRecvData: ARQ (seq# 12092) rcvd from [172.16.110.2:52521] on sock [0x60FE9B04] RASLib::parse_arq_nonstd: ARQ Nonstd decode succeeded, remlen = 0

Mar 28 00:22:48.053: RASlib::ras_sendto: msg length 24 from 172.16.110.1:1719 to 172.16.110.2:52521

Mar 28 00:22:48.053: RASLib::RASSendACF: ACF (seq# 12092) sent to 172.16.110.2

Mar 28 00:22:55.129: RASLib::RASRecvData: successfully rcvd message of length 76 from 172.16.110.2:52521

Mar 28 00:22:55.129: RASLib::RASRecvData: DRQ (seq# 12093) rcvd from [172.16.110.2:52521] on sock [0x60FE9B04]

Mar 28 00:22:55.129: RASlib::ras_sendto: msg length 3 from 172.16.110.1:1719 to 172.16.110.2:52521

Mar 28 00:22:55.129: RASLib::RASSendDCF: DCF (seq# 12093) sent to 172.16.110.2

Mar 28 00:22:55.449: RASLib::RASRecvData: successfully rcvd message of length 74 from 172.16.110.2:52521

Mar 28 00:22:55.449: RASLib::RASRecvData: RRQ (seq# 12094) rcvd from [172.16.110.2:52521] on sock [0x60FE9B04]

Mar 28 00:22:55.453: RASlib::ras_sendto: msg length 52 from 172.16.110.1:1719 to 172.16.110.2:52521

```
Mar 28 00:22:55.453: RASLib::RASSendRCF: RCF (seq# 12094) sent to 172.16.110.2
Mar 28 00:23:40.453: RASLib::RASRecvData: successfully rcvd message of length 74
from 172.16.110.2:52521
Mar 28 00:23:40.457: RASLib::RASRecvData: RRQ (seq# 12095) rcvd from
[172.16.110.2:52521] on sock [0x60FE9B04]
Mar 28 00:23:40.457: RASLib::ras_sendto: msg length 52 from 172.16.110.1:1719 to
172.16.110.2:52521
Mar 28 00:23:40.457: RASLib::RASSendRCF: RCF (seq# 12095) sent to 172.16.110.2
Mar 28 00:24:25.457: RASLib::RASRecvData: successfully rcvd message of length 74
from 172.16.110.2:52521
Mar 28 00:24:25.461: RASLib::RASRecvData: RRQ (seq# 12096) rcvd from
[172.16.110.2:52521] on sock [0x60FE9B04]
Mar 28 00:24:25.461: RASLib::ras_sendto: msg length 52 from 172.16.110.1:1719 to
172.16.110.2:52521
Mar 28 00:24:25.461: RASLib::RASSendRCF: RCF (seq# 12096) sent to 172.16.110.2
Mar 28 00:25:10.465: RASLib::RASRecvData: successfully rcvd message of length
74 from 172.16.110.2:52521
Mar 28 00:25:10.465: RASLib::RASRecvData: RRQ (seq# 12097) rcvd from
[172.16.110.2:52521] on sock [0x60FE9B04]
Mar 28 00:25:10.465: RASLib::ras_sendto: msg length 52 from 172.16.110.1:1719 to
172.16.110.2:52521
Mar 28 00:25:10.469: RASLib::RASSendRCF: RCF (seq# 12097) sent to 172.16.110.2
SanJose3640A#
```

SanJose3640A# **show gatekeeper call**

Total number of active calls = 1

[閘道管理員通話資訊](#)

```
.
                                     GATEKEEPER CALL INFO
                                     =====
LocalCallID                          Age(secs)   BW
15-6872                               60         64(Kbps)
  Endpt(s): Alias                    E.164Addr  CallSignalAddr  Port  RASSignalAddr  Port
   src EP:                          9195552010
   dst EP: SJ5300A                   408#408555640 172.16.110.2   1720 172.16.110.2   52521
```

SanJose3640A#

[疑難排解](#)

本節提供的資訊可用於對組態進行疑難排解。

[疑難排解指令](#)

注意：發出debug指令之前，請參閱[有關Debug指令的重要資訊](#)。

- [debug ras](#)
- [debug h245 asn1](#)
- [debug h225 asn1](#)

註：請參閱[瞭解Gatekeeper TTL和老化過程並排除故障](#)。本檔案介紹思科閘道管理員如何使用存留時間(TTL)值將終端老化。

[相關資訊](#)

- [語音技術支援](#)
- [語音和IP通訊產品支援](#)
- [Cisco IP電話故障排除](#)
- [技術支援與文件 - Cisco Systems](#)