

带有网守的 VoIP

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简介

本文档说明如何配置和检验带网守的VoIP网络。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco IOS® 软件版本 12.1(1)
- Cisco AS5300和Cisco 3640路由器

注意：对于所有Cisco平台上的网守功能，需要加载Cisco IOS功能集 — x-。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

规则

有关文件规则的更多信息请参见“Cisco技术提示规则”。

背景信息

网关是LAN上的一个H.323实体，为H.323终端和网关提供到LAN的地址转换和控制存取。网守可以为H.323终端和网关提供其他服务，例如带宽管理和网关位置。网守维护多媒体网络中设备的注册。在启动时，设备向网守进行注册，并且请求接收由网守发起的呼叫。

您可以使用本文档中的网守配置来实现以下目的：

- 为了帮助扩展VoIP实施，您已安装了多个网关和终端设备此配置允许在中心点（网守）进行更改。
- 帮助控制呼叫准入控制(CAC)以限制网络上的呼叫数
- 在网络上实施代理，以分别处理VoIP呼叫和数据流量

配置

本部分提供有关如何配置本文档所述功能的信息。

注：要查找有关本文档中使用的命令的其他信息，请使用[命令查找工具](#)(仅注册客户)。

网络图

此网络是一个简单的拓扑，包含两个Cisco AS5300网关。一个网关在圣何塞，另一个网关在罗利。在每个站点，都有一个在Cisco 3640上运行的网守配置。在本部分显示的拓扑中，在两个网关之间进行简单的VoIP呼叫时，实际上并不需要网守。但该图中包含一个网守，用于显示完整配置的外观。

此拓扑的Cisco网守配置与常规VoIP实施不同，其方式如下：

- 网关设置的每个网关使用h323-gateway voip接口命令向本地网守注册到。在本例中，网关为AS5300，网守为3640。
- dial-peer voice 2 voip 命令中的会话目标指向注册、准入和状态(RAS)，而不是相应的ipv4:ip地址。RAS执行以下任务：定义网关向网守注册的位置发送每个呼叫的准入请求为呼叫执行特定状态信息轮询

在H.323网络中，每个区域有一个主网守。网守可以控制区域中的多个网关或终端H.323设备。在本节说明的配置中，呼叫路由到适当的区域和网守。然后，网守使用注册网关的IP地址回复呼叫请求，该网关的技术前缀(tech-prefix)与被叫号码匹配。



呼叫处理

这些步骤说明网守进程如何工作。罗利侧的电话向圣荷西侧的电话发出呼叫：

1. Raleigh 5300A接收从PBX到4085556400的呼叫，该电话连接到San Jose PBX。此号码与拨号对等体语音2 voip下的号码匹配，并且技术前缀为408#。
2. 对Raleigh网守Raleigh 3640A的准入请求包括技术前缀和被叫号码，格式为**408#4085556400**。4085556400匹配408.....。
3. Raleigh网守向San Jose网守San Jose 3640A发送位置请求。
4. 由于圣荷西网守配置包含技术前缀为408#的圣荷西5300A，因此圣荷西网守向罗利网守回复San Jose 5300 IP地址。
5. 此IP地址通过准入确认(ACF)转发到Raleigh 5300A。
6. Raleigh 5300A与圣荷西5300A打开一通正常的H.323电话。

配置

本文档使用以下配置：

- [罗利5300A](#)
- [罗利3640A](#)
- [圣荷西5300A](#)
- [圣荷西3640A](#)

罗利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
```

罗利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
```

圣荷西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
```

圣荷西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
```

验证

本部分提供可用于确认您的配置是否正常运行的信息。

[命令输出解释程序工具 \(仅限注册用户 \) 支持某些 show 命令](#)，使用此工具可以查看对 show 命令输出的分析。

- **show debug** — 显示已启用的debug命令
- **undebg all** — 关闭所有调试
- **show gatekeeper** — 显示网守的状态
- **show log** — 显示日志文件输出
- **show call active voice brief** — 显示活动呼叫表内容的缩写版本该显示显示通过路由器的当前连接的所有呼叫。
- **show call active voice** — 显示活动呼叫表的内容此显示显示通过路由器的当前连接的所有呼叫
- **show gatekeeper endpoints** — 向网守显示终端注册状态
- **show gatekeeper call** — 显示网守处理的活动呼叫
- **show gatekeeper gw** — 显示技术前缀的终端注册状态

验证 Raleigh 5300A 路由器

```
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# undebg 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/0:-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#

验证 Raleigh 3640A 路由器

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#

[验证 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)

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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#

验证 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

[网守呼叫信息](#)

```
.
                                     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#

[故障排除](#)

本部分提供的信息可用于对配置进行故障排除。

[故障排除命令](#)

注意：在发出debug命令之前，请参阅[有关debug命令的重要信息](#)。

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

注：请参阅[了解和排除网守TTL和老化过程](#)。本文档介绍Cisco网守如何使用生存时间(TTL)值老化终端。

[相关信息](#)

- [语音技术支持](#)
- [语音和 IP 通信产品支持](#)
- [Cisco IP 电话故障排除](#)
- [技术支持和文档 - Cisco Systems](#)