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## 简介

本文说明如何配置和验证一个VoIP网络用网守。

## 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：** 那里需求装载Cisco IOS功能集？x ？在所有Cisco平台的网守功能。

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

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## 背景信息

网守是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。网守能为H.323终端和网关提供其他服务，例如带宽管理和网关的位置。网守维护设备注册在多媒体网络的。在启动时，设备箱网守进行注册，并且请求接收由网守发起的呼叫。

您在本文能使用网守配置这些目的：

- 帮助扩展您安装几个网关和终端设备的VoIP实施此配置允许将做的更改在中心点，网守。
- 帮助控制呼叫接纳控制(CAC)为了限制呼叫数量在网络的
- 实现使用网络的一个代理分开处理您的VoIP呼叫与您的数据流

## 配置

本部分提供有关如何配置本文档所述功能的信息。

**注意：**要查找本文档所用命令的其他信息，请使用[命令查找工具](#)（[仅限注册用户](#)）。

## 网络图

此网络是一简单拓扑用两个Cisco AS5300网关。一个网关在San Jose，并且另一个网关在Raleigh。在每个站点，有在Cisco 3640运行的网守配置。在此部分显示的拓扑里，网守不是确实必要为了发出简单VoIP呼叫在两个网关之间。但是图表包括网守为了显示完整的配置如何查找。

此拓扑的Cisco网守配置与一次正常VoIP实施有所不同用这些方式：

- 网关设置的每个网关向有使用的本地关守登记h323?gateway VoIP接口命令。在这种情况下，网关是AS5300，并且网守是3640。
- 在拨号的session target ?对等体语音2 voip对注册、接纳和状态(RAS)的命令点而不是适当的ip v4 : IP地址。RAS执行这些任务：定义了网关的位置能向网守登记发送每呼叫的准入请求执行呼叫的某状态信息？

在H.323网络中，您有每个区域一个主要关守。网守能控制多个网关或结束H.323设备在区域。在此部分说明的配置，对适当的区域的呼叫路由和网守中。然后，对呼叫请求的网守回复用有技术前缀已注册网关的IP地址(技术?该的前缀)匹配被叫号码。



## 呼叫处理

这些步骤如何解释网守处理工作。在Raleigh侧的一个电话发出呼叫到电话在San Jose侧：

1. Raleigh 5300A收到从PBX的一呼叫到4085556400，是电话连接对San Jose PBX。此编号匹配编号在拨号下？对等体语音2 voip并且有408#技术前缀。
2. 对Raleigh关守的准入请求，Raleigh 3640A，在格式408#4085556400包括技术前缀和被叫号码。4085556400匹配zone prefix命令408 .....
3. Raleigh关守发送位置请求给San Jose关守，San Jose 3640A。
4. 由于San Jose关守配置包含与408#技术前缀的San Jose 5300A，对Raleigh关守的San Jose关守回复用San Jose 5300 IP地址。
5. 此IP地址转发对Raleigh 5300A通过接纳确认(ACF)。
6. Raleigh 5300A打开与San Jose 5300A的一正常H.323呼叫。

## 配置

本文档使用以下配置：

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

### Raleigh 5300A

```
Raleigh5300A# show runBuilding 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 12.1service
timestamps debug datetime msecservice timestamps log
datetime msecno service password?encryption!hostname
Raleigh5300A!logging buffered 50000 debuggingenable
secret < password > [Choose a strong password with at
least one capital letter, one number, and one special
character.]!!!resource?pool disable!!!!clock
calendar?validip subnet?zero!isdn switch?type
primary?5essisdn voice?call?failure 0mta 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 classlessip route
172.16.110.0 255.255.255.0 172.16.120.10no ip http
```

```
server!line con 0 transport input noneline 1 48
transport output lat pad telnet rlogin udptn v120
lapb?taline aux 0line vty 0 4 password cisco login!ntp
clock?period 17179850ntp server 172.16.110.10end
```

### Raleigh 3640A

```
Raleigh3640A# show runBuilding configuration...Current
configuration:!!version 12.1service timestamps debug
datetime msecservice timestamps log datetime msecno
service password?encryption!hostname
Raleigh3640A!logging buffered 50000 debuggingenable
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 classlessip route
172.16.110.0 255.255.255.0 172.16.120.10no 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 noneline aux 0line vty 0 4
password cisco login!ntp clock?period 17179864ntp server
172.16.110.10end
```

### San Jose 5300A

```
SanJose5300A# show runBuilding 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 12.1service
timestamps debug datetime msecservice timestamps log
datetime msecno service password?encryption!hostname
SanJose5300A!logging buffered 50000 debuggingenable
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 0mta 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 classlessip route 172.16.120.0
255.255.255.0 172.16.110.10no ip http server!!!line con
0 transport input noneline aux 0line vty 0 4 password
cisco login!ntp clock?period 17179892ntp server
172.16.110.10end
```

### San Jose 3640A

```
SanJose3640A# show runBuilding configuration...Current
configuration:!! NVRAM config last updated at 00:05:33
UTC Tue Mar 28 2000!version 12.1service timestamps debug
datetime msecservice timestamps log datetime msecno
```

```

service password-encryption!hostname SanJose3640A!boot
system flash c3640?ix?mz.120?7.Tlogging buffered 50000
debuggingenable 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 classlessip route 172.16.120.0 255.255.255.0
172.16.110.10no 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 noneline aux 0line
vty 0 4 password cisco login!ntp server 172.16.110.10end

```

## 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 ?** 显示启用的调试指令
- **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 ?** 显示激活呼叫表的内容的一个缩写的版本显示通过路由器显示与当前连接的所有呼叫。
- **show call active voice ?** 显示激活呼叫表的内容此显示通过路由器显示与当前连接的所有呼叫。
- **show gatekeeper endpoints ?** 显示终点注册状态到网守
- **show gatekeeper call ?** 显示网守处理的激活的呼叫
- **show gatekeeper gw ?** 显示技术前缀的终点注册状态

## 验证 Raleigh 5300A 路由器

```

Raleigh5300A# show debugISDN: 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 onvoip: voip ccAPI function enter/exit debugging is onRaleigh5300A# undebg allAll possible
debugging has been turned offRaleigh5300A# show gatekeeper Gateway RAL5300A@cisco.com is
registered to Gatekeeper RALgk1Alias list (CLI configured) H323?ID RAL5300A@cisco.comAlias list
(last RCF) H323?ID RAL5300A@cisco.comH323 resource thresholding is DisabledRaleigh5300A# show
logSyslog 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 loggedLog Buffer (50000 bytes):Mar 28 00:22:47.624: ISDN Se0:23: RX <? SETUP pd = 8
callref = 0x30Mar 28 00:22:47.624: Bearer Capability i = 0x8090A2Mar 28 00:22:47.624:
Channel ID i = 0xA98393Mar 28 00:22:47.624: Calling Party Number i = 0x2180, '9195552010',
Plan:ISDN, Type:NationalMar 28 00:22:47.624: Called Party Number i = 0xA1, '4085556400',
Plan:ISDN, Type:NationalMar 28 00:22:47.628: ISDN Se0:23: TX ?> CALL_PROC pd = 8 callref =
0x8030Mar 28 00:22:47.628: Channel ID i = 0xA98393Mar 28 00:22:47.628: ISDN Se0:23: TX
?> ALERTING pd = 8 callref = 0x8030Mar 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), cllcd(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.0abcMar 28 00:22:48.020: peer\_tag=2Mar 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 172.16.120.1:1719Mar 28 00:22:48.024: RASLib::RASSendARQ: ARQ (seq# 12119) sent to 172.16.120.1Mar 28 00:22:48.028: RASLib::RASRecvData: successfully rcvd message of length 7 from 172.16.120.1:1719Mar 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 172.16.120.1:1719Mar 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)csiz(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)csiz(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)csiz(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 = 0x8030Mar 28 00:22:51.564: ISDN Se0:23: RX <? CONNECT\_ACK pd = 8 callref = 0x30Mar 28 00:22:51.564: ISDN Se0:23: CALL\_PROGRESS: CALL\_CONNECTED call id 0x11, bchan ?1, dsl 0Mar 28 00:22:54.620: cc\_api\_call\_digit\_begin (vdbPtr=0x61B9ADAC, callID=0x20, digit=1, flags=0x1, timestamp=0xCAAF06B, 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)csiz(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)csiz(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 = 0x30Mar 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 secondsMar 28 00:22:55.124: ISDN Se0:23: TX >? RELEASE pd = 8 callref = 0x8030Mar 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)csiz(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 172.16.120.1:1719Mar 28 00:22:55.128: RASLib::RASSendDRQ: DRQ (seq# 12120)
sent to 172.16.120.1Mar 28 00:22:55.132: RASLib::RASRecvData: successfully rcvd message of
length 3 from 172.16.120.1:1719Mar 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 = 0x30Mar 28 00:23:14.251: RASLib::ras_sendto: msg length 76 from
172.16.120.2:51726 to 172.16.120.1:1719Mar 28 00:23:14.251: RASLib::RASSendRRQ: RRQ (seq# 12121)
sent to 172.16.120.1Mar 28 00:23:14.255: RASLib::RASRecvData: successfully rcvd message of
length 52 from 172.16.120.1:1719Mar 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 172.16.120.1:1719Mar 28 00:23:59.255: RASLib::RASSendRRQ: RRQ
(seq# 12122) sent to 172.16.120.1Mar 28 00:23:59.259: RASLib::RASRecvData: successfully rcvd
message of length 52 from 172.16.120.1:1719Mar 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> dBm4B : 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 dBm4B : 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 g729r8Raleigh5300A# show call active voice
GENERIC:SetupTime=54320146
msIndex=1PeerAddress=9195552010PeerSubAddress=PeerId=1PeerIfIndex=56LogicalIfIndex=26ConnectTime
=54321258CallDuration=00:00:24CallState=4CallOrigin=2ChargedUnits=0InfoType=2TransmitPackets=141
4TransmitBytes=20900ReceivePackets=615ReceiveBytes=19680TELE:ConnectionId=[0x1ACB27D8 0x98F4004B
0x0 0x206098B4]TxDuration=33700 msVoiceTxDuration=12300 msFaxTxDuration=0
msCoderTypeRate=g729r8NoiseLevel=?55ACOMLevel=0OutSignalLevel=?45InSignalLevel=?55InfoActivity=2
ERLLevel=19SessionTarget=ImgPages=0 GENERIC:SetupTime=54320146
msIndex=2PeerAddress=4085556400PeerSubAddress=PeerId=2PeerIfIndex=57LogicalIfIndex=0ConnectTime=
54321258CallDuration=00:00:24CallState=4CallOrigin=1ChargedUnits=0InfoType=2TransmitPackets=615T
ransmitBytes=12300ReceivePackets=1415ReceiveBytes=28300VOIP:ConnectionId[0x1ACB27D8 0x98F4004B
0x0 0x206098B4]RemoteIPAddress=172.16.110.2RemoteUDPPort=17024RoundTripDelay=4
msSelectedQoS=best?efforttx_DtmfRelay=inband?voiceSessionProtocol=ciscoSessionTarget=rasOnTimeRv
Playout=25900GapFillWithSilence=0 msGapFillWithPrediction=0 msGapFillWithInterpolation=0
msGapFillWithRedundancy=0 msHiWaterPlayoutDelay=70 msLoWaterPlayoutDelay=50 msReceiveDelay=50
msLostPackets=0EarlyPackets=0LatePackets=0VAD =
enabledCoderTypeRate=g729r8CodecBytes=20SignalingType=casRaleigh5300A#

```

## 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.comTotal
number of active registrations = 1Raleigh3640A# show gatekeeper gwGATEWAY TYPE PREFIX
TABLE=====Prefix: 408#*Prefix: 919#* Zone RALgk1 master gateway list:
172.16.120.2:1720 RAL5300A Raleigh3640A# show logSyslog 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 loggedLog Buffer (50000
bytes):Mar 28 00:22:48.019: RASLib::RASRecvData: successfully rcvd message of length 115 from
172.16.120.2:51726Mar 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 = 0Mar 28 00:22:48.023: RASLib::ras_sendto: msg length 7 from
172.16.120.1:1719 to 172.16.120.2:51726Mar 28 00:22:48.023: RASLib::RASSendRIP: RIP (seq# 12119)
sent to 172.16.120.2Mar 28 00:22:48.023: RASLib::RAS_WK_TInit: ipsock [0x612328CC] setup
successfulMar 28 00:22:48.027: RASLib::ras_sendto: msg length 79 from 172.16.120.1:52893
to 172.16.110.1:1719Mar 28 00:22:48.027: RASLib::RASSendLRQ: LRQ (seq# 20) sent to
172.16.110.1Mar 28 00:22:48.035: RASLib::RASRecvData: successfully rcvd message of length 128
from 172.16.110.1:1719Mar 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 = 0Mar 28 00:22:48.039: RASLib::ras_sendto: msg length 24 from 172.16.120.1:1719 to
172.16.120.2:51726Mar 28 00:22:48.039: RASLib::RASSendACF: ACF (seq# 12119) sent to
172.16.120.2Mar 28 00:22:55.123: RASLib::RASRecvData: successfully rcvd message of length 76
from 172.16.120.2:51726Mar 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 172.16.120.2:51726Mar 28 00:22:55.127: RASLib::RASSendDCF: DCF (seq#
12120) sent to 172.16.120.2Mar 28 00:23:14.247: RASLib::RASRecvData: successfully rcvd message
of length 76 from 172.16.120.2:51726Mar 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 172.16.120.2:51726Mar 28 00:23:14.251: RASLib::RASSendRCF:
RCF (seq# 12121) sent to 172.16.120.2Mar 28 00:23:59.251: RASLib::RASRecvData: successfully rcvd
message of length 76 from 172.16.120.2:51726Mar 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 172.16.120.2:51726Mar 28
00:23:59.255: RASLib::RASSendRCF: RCF (seq# 12122) sent to 172.16.120.2Mar 28 00:24:44.255:
RASLib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:51726Mar 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
172.16.120.2:51726Mar 28 00:24:44.259: RASLib::RASSendRCF: RCF (seq# 12123) sent to
172.16.120.2Raleigh3640A#Raleigh3640A# show gatekeeper callTotal number of active calls = 1.
GATEKEEPER CALL INFO =====LocalCallID
Age(secs) BW18?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 SJgk1Alias
list (CLI configured) H323?ID SJ5300A@cisco.comAlias list (last RCF) H323?ID SJ5300A@cisco.com
H323 resource thresholding is DisabledSanJose5300A# show logSyslog 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 loggedLog Buffer (50000
bytes):Mar 28 00:22:48.043: RASLib::ras_sendto: msg length 122 from 172.16.110.2:52521 to
172.16.110.1:1719Mar 28 00:22:48.043: RASLib::RASSendARQ: ARQ (seq# 12092) sent to
172.16.110.1Mar 28 00:22:48.047: RASLib::RASRecvData: successfully rcvd message of length 24
from 172.16.110.1:1719Mar 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), cllcd(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.0abcMar 28 00:22:48.051: peer_tag=1Mar
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 172.16.110.1:1719Mar 28 00:22:55.123: RASlib::RASSendDRQ: DRQ (seq# 12093)  
sent to 172.16.110.1Mar 28 00:22:55.127: RASlib::RASRecvData: successfully rcvd message of  
length 3 from 172.16.110.1:1719Mar 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 172.16.110.1:1719Mar 28  
00:22:55.443: RASlib::RASSendRRQ: RRQ (seq# 12094) sent to 172.16.110.1Mar 28 00:22:55.447:  
RASlib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719Mar 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  
172.16.110.1:1719Mar 28 00:23:40.448: RASlib::RASSendRRQ: RRQ (seq# 12095) sent to  
172.16.110.1Mar 28 00:23:40.452: RASlib::RASRecvData: successfully rcvd message of length 52  
from 172.16.110.1:1719Mar 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 172.16.110.1:1719Mar 28 00:24:25.452: RASlib::RASSendRRQ: RRQ (seq#  
12096) sent to 172.16.110.1Mar 28 00:24:25.456: RASlib::RASRecvData: successfully rcvd message  
of length 52 from 172.16.110.1:1719Mar 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 172.16.110.1:1719Mar 28 00:25:10.457: RASlib::RASSendRRQ:  
RRQ (seq# 12097) sent to 172.16.110.1Mar 28 00:25:10.461: RASlib::RASRecvData: successfully rcvd  
message of length 52 from 172.16.110.1:1719Mar 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> dBm4B : 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 g729r84B : 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/o:?41/?41 dBmSanJose5300A# show call active
voice GENERIC:SetupTime=54285525
msIndex=1PeerAddress=9195552010PeerSubAddress=PeerId=2PeerIfIndex=17LogicalIfIndex=0ConnectTime=
54286632CallDuration=00:00:44CallState=4CallOrigin=2ChargedUnits=0InfoType=2TransmitPackets=2415
TransmitBytes=48300ReceivePackets=1055ReceiveBytes=21100VOIP:ConnectionId[0x1ACB27D8 0x98F4004B
0x0 0x206098B4]RemoteIPAddress=172.16.120.2RemoteUDPPort=17698RoundTripDelay=65535
msSelectedQoS=best?efforttx_DtmfRelay=inband?voiceSessionProtocol=ciscoSessionTarget=OnTimeRvPla
yout=21090GapFillWithSilence=0 msGapFillWithPrediction=0 msGapFillWithInterpolation=0
msGapFillWithRedundancy=0 msHiWaterPlayoutDelay=70 msLoWaterPlayoutDelay=30 msReceiveDelay=30
msLostPackets=0EarlyPackets=0LatePackets=0VAD =
enabledCoderTypeRate=g729r8CodecBytes=20SignalingType=cas GENERIC:SetupTime=54285543
msIndex=1PeerAddress=408#4085556400PeerSubAddress=PeerId=1PeerIfIndex=16LogicalIfIndex=13Connect
Time=54286632CallDuration=00:00:44CallState=4CallOrigin=1ChargedUnits=0InfoType=2TransmitPackets
=1055TransmitBytes=?8108ReceivePackets=2434ReceiveBytes=77888TELE:ConnectionId=[0x1ACB27D8
0x98F4004B 0x0 0x206098B4]TxDuration=53920 msVoiceTxDuration=48690 msFaxTxDuration=0
msCoderTypeRate=g729r8NoiseLevel=?72ACOMLevel=0OutSignalLevel=?71InSignalLevel=?43InfoActivity=2
ERLLevel=9SessionTarget=ImgPages=0SanJose5300A#

```

## 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.comTotal
number of active registrations = 1SanJose3640A# show gatekeeper gwGATEWAY TYPE PREFIX
TABLE=====Prefix: 919#*Prefix: 408#* Zone SJgk1 master gateway list:
172.16.110.2:1720 SJ5300A SanJose3640A# show logSyslog 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 loggedLog Buffer (50000
bytes):Mar 28 00:22:48.025: RASLib::RASRecvData: successfully rcvd message of length 79 from
172.16.120.1:52893Mar 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 = 0Mar 28 00:22:48.033: RASlib::ras_sendto: msg length 128 from 172.16.110.1:1719 to
172.16.120.1:52893Mar 28 00:22:48.033: RASLib::RASSendLCF: LCF (seq# 20) sent to 172.16.120.1Mar
28 00:22:48.049: RASLib::RASRecvData: successfully rcvd message of length 122 from
172.16.110.2:52521Mar 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 = 0Mar 28 00:22:48.053: RASlib::ras_sendto: msg length 24 from 172.16.110.1:1719 to
172.16.110.2:52521Mar 28 00:22:48.053: RASLib::RASSendACF: ACF (seq# 12092) sent to
172.16.110.2Mar 28 00:22:55.129: RASLib::RASRecvData: successfully rcvd message of length 76
from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28 00:22:55.129: RASLib::RASSendDCF: DCF (seq#
12093) sent to 172.16.110.2Mar 28 00:22:55.449: RASLib::RASRecvData: successfully rcvd message
of length 74 from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28 00:22:55.453: RASLib::RASSendRCF:
RCF (seq# 12094) sent to 172.16.110.2Mar 28 00:23:40.453: RASLib::RASRecvData: successfully rcvd
message of length 74 from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28
00:23:40.457: RASLib::RASSendRCF: RCF (seq# 12095) sent to 172.16.110.2Mar 28 00:24:25.457:
RASLib::RASRecvData: successfully rcvd message of length 74 from 172.16.110.2:52521Mar 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
172.16.110.2:52521Mar 28 00:24:25.461: RASLib::RASSendRCF: RCF (seq# 12096) sent to

```

```
172.16.110.2Mar 28 00:25:10.465: RASLib::RASRecvData: successfully rcvd message of length 74
from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28 00:25:10.469: RASLib::RASSendRCF: RCF (seq#
12097) sent to 172.16.110.2SanJose3640A#SanJose3640A# show gatekeeper callTotal number of active
calls = 1
```

## 网守呼叫信息

```
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.comTotal
number of active registrations = 1SanJose3640A# show gatekeeper gwGATEWAY TYPE PREFIX
TABLE=====Prefix: 919#*Prefix: 408#* Zone SJgk1 master gateway list:
172.16.110.2:1720 SJ5300A SanJose3640A# show logSyslog 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 loggedLog Buffer (50000
bytes):Mar 28 00:22:48.025: RASLib::RASRecvData: successfully rcvd message of length 79 from
172.16.120.1:52893Mar 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 = 0Mar 28 00:22:48.033: RASLib::ras_sendto: msg length 128 from 172.16.110.1:1719 to
172.16.120.1:52893Mar 28 00:22:48.033: RASLib::RASSendLCF: LCF (seq# 20) sent to 172.16.120.1Mar
28 00:22:48.049: RASLib::RASRecvData: successfully rcvd message of length 122 from
172.16.110.2:52521Mar 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 = 0Mar 28 00:22:48.053: RASLib::ras_sendto: msg length 24 from 172.16.110.1:1719 to
172.16.110.2:52521Mar 28 00:22:48.053: RASLib::RASSendACF: ACF (seq# 12092) sent to
172.16.110.2Mar 28 00:22:55.129: RASLib::RASRecvData: successfully rcvd message of length 76
from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28 00:22:55.129: RASLib::RASSendDCF: DCF (seq#
12093) sent to 172.16.110.2Mar 28 00:22:55.449: RASLib::RASRecvData: successfully rcvd message
of length 74 from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28 00:22:55.453: RASLib::RASSendRCF:
RCF (seq# 12094) sent to 172.16.110.2Mar 28 00:23:40.453: RASLib::RASRecvData: successfully rcvd
message of length 74 from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28
00:23:40.457: RASLib::RASSendRCF: RCF (seq# 12095) sent to 172.16.110.2Mar 28 00:24:25.457:
RASLib::RASRecvData: successfully rcvd message of length 74 from 172.16.110.2:52521Mar 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
172.16.110.2:52521Mar 28 00:24:25.461: RASLib::RASSendRCF: RCF (seq# 12096) sent to
172.16.110.2Mar 28 00:25:10.465: RASLib::RASRecvData: successfully rcvd message of length 74
from 172.16.110.2:52521Mar 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 172.16.110.2:52521Mar 28 00:25:10.469: RASLib::RASSendRCF: RCF (seq#
12097) sent to 172.16.110.2SanJose3640A#SanJose3640A# show gatekeeper callTotal number of active
calls = 1
```

## 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](#)

**注意：** 参考的[了解和故障排除网守TTL和超时过程](#)。本文描述Cisco网守如何老化与使用的终端存活时间(TTL)值。

## [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](#)