

VoIP com Gatekeeper

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Introduction

Este documento ilustra como configurar e verificar uma rede VoIP com um gatekeeper.

Prerequisites

Requirements

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Software Cisco IOS® versão 12.1(1)
- Cisco AS5300 e Cisco 3640 routers

Observação: há um requisito para carregar o conjunto de recursos do Cisco IOS -x- para a funcionalidade do gatekeeper em todas as plataformas Cisco.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

Informações de Apoio

Um gatekeeper é uma entidade H.323 em uma LAN que fornece conversão de endereço e acesso de controle à LAN para terminais e gateways H.323. O gatekeeper pode fornecer outros serviços para os terminais e gateways H.323, como o gerenciamento de largura de banda e a localização dos gateways. Um gatekeeper mantém um registro dos dispositivos na rede multimídia. Os dispositivos são registrados com o gatekeeper na inicialização e solicitam a admissão de uma chamada do gatekeeper.

Você pode usar a configuração de gatekeeper neste documento para estes fins:

- Para ajudar a dimensionar uma implementação de VoIP onde você instalou vários gateways e dispositivos finais. Essa configuração permite que as alterações sejam feitas em um ponto central, o gatekeeper.
- Para ajudar a controlar o controle de admissão de chamadas (CAC) a fim limitar o número de chamadas na rede
- Para implementar o uso de um proxy na rede para tratar suas chamadas VoIP separadamente do tráfego de dados

Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

Observação: para encontrar informações adicionais sobre os comandos usados neste documento, use a [ferramenta Command Lookup Tool](#) (somente clientes [registrados](#)).

Diagrama de Rede

Essa rede é uma topologia simples com dois gateways Cisco AS5300. Um gateway está em San Jose, e o outro está em Raleigh. Em cada local, há uma configuração de gatekeeper executada em um Cisco 3640. Na topologia mostrada nesta seção, um gatekeeper não é realmente necessário para fazer chamadas VoIP simples entre os dois gateways. Mas o diagrama inclui um gatekeeper para mostrar a aparência da configuração completa.

As configurações de gatekeeper da Cisco para esta topologia diferem de uma implementação VoIP regular das seguintes maneiras:

- Cada gateway para a configuração do gateway se registra com o gatekeeper local com o uso dos comandos **h323-gateway voip interface**. Nesse caso, os gateways são AS5300s e o gatekeeper é o 3640.

- O **destino da sessão** no comando **dial-peer voice 2 voip** aponta para Registration, Admission e Status (RAS) em vez do **endereço ipv4:ip apropriado**. O RAS executa estas tarefas: Define a localização para o gateway se registrar no gatekeeper Envia solicitações de admissão para cada chamada Realiza uma pesquisa de informações de status para chamadas

Na rede H.323, você tem um gatekeeper principal por zona. O gatekeeper pode controlar vários gateways ou terminar dispositivos H.323 na zona. Na configuração ilustrada por esta seção, uma chamada roteia para a zona apropriada e o gatekeeper. Em seguida, o gatekeeper responde à solicitação de chamada com o endereço IP do gateway registrado que tem o prefixo de tecnologia (**tech-prefix**) que corresponde ao número chamado.



Processo de chamada

Estas etapas explicam como o processo de gatekeeper funciona. Um telefone no lado de Raleigh faz uma chamada para um telefone no lado de San Jose:

1. O Raleigh 5300A recebe uma chamada do PBX para 408556400, que é um telefone que se conecta ao PBX San Jose. Esse número corresponde ao número sob o **dial-peer voice 2 voip** e também tem um prefixo de tecnologia **408#**.
2. A solicitação de admissão ao gatekeeper Raleigh 3640A inclui o prefixo de tecnologia e o número chamado no formato **408#408556400**. O **408556400** corresponde ao comando **zone prefix** de **408.....**
3. O gatekeeper Raleigh envia uma solicitação de local ao gatekeeper San Jose, San Jose 3640A.
4. Como a configuração do gatekeeper San Jose contém San Jose 5300A com um prefixo de tecnologia **408#**, o gatekeeper San Jose responde ao gatekeeper Raleigh com o endereço IP San Jose 5300.
5. Este endereço IP encaminha para Raleigh 5300A através de uma confirmação de admissão (ACF).
6. Raleigh 5300A abre uma chamada H.323 normal com San Jose 5300A.

Configurações

Este documento utiliza as seguintes configurações:

- [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

```

Verificar

Esta seção fornece informações que você pode usar para verificar se sua configuração está funcionando adequadamente.

A [Output Interpreter Tool \(somente clientes registrados\)](#) oferece suporte a determinados comandos `show`, o que permite exibir uma análise da saída do comando `show`.

- **show debug** — Exibe os comandos **debug** que estão ativados
- **undebg all** — Desativa todas as depurações
- **show gatekeeper** — Exibe o status do gatekeeper
- **show log** — Exibe a saída do arquivo de log
- **show call active voice brief** — Exibe uma versão abreviada do conteúdo da tabela de chamadas ativas. A tela mostra todas as chamadas com conexão atual através do roteador.
- **show call active voice** — Exibe o conteúdo da tabela de chamadas ativas. Essa exibição mostra todas as chamadas com conexão atual através do roteador.
- **show gatekeeper endpoints** — Exibe o status do registro de endpoints no gatekeeper
- **show gatekeeper call** — Exibe as chamadas ativas processadas pelo gatekeeper
- **show gatekeeper gw** — Exibe o status de registro de endpoints para o prefixo de tecnologia

Verificação do roteador Raleigh 5300A

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=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)
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
OnTimeRvPayout=25900
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPayoutDelay=70 ms
LoWaterPayoutDelay=50 ms
ReceiveDelay=50 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
Raleigh5300A#

```

Verificação para roteador Raleigh 3640A

```

Raleigh3640A# show gatekeeper end
                GATEKEEPER ENDPOINT REGISTRATION
                =====
CallSignalAddr  Port  RASignalAddr  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#

[Verificação para roteador San Jose 5300A](#)

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), 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.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=

OnTimeRvPayout=21090

GapFillWithSilence=0 ms

GapFillWithPrediction=0 ms

GapFillWithInterpolation=0 ms

GapFillWithRedundancy=0 ms

HiWaterPayoutDelay=70 ms

LoWaterPayoutDelay=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#

Verificação para San Jose 3640A Router

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

```

Informações de chamada de gatekeeper

```

.
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#
```

Troubleshoot

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Comandos para Troubleshooting

Observação: antes de emitir comandos **debug**, consulte [Informações Importantes sobre Comandos Debug](#).

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

Observação: consulte [Entendendo e Troubleshooting de TTL do Gatekeeper e Processo de Envelhecimento](#). Este documento descreve como o Cisco Gatekeeper separa os endpoints com o uso do valor Time to Live (TTL).

Informações Relacionadas

- [Suporte à Tecnologia de Voz](#)
- [Suporte aos produtos de Voz e Comunicação por IP](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)