

# VoIP con Gatekeeper

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## Introducción

Este documento ilustra cómo configurar y verificar una red VoIP con un gatekeeper.

## Prerequisites

## Requirements

No hay requisitos específicos para este documento.

## Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Versión 12.1(1) del software del IOS® de Cisco
- Routers Cisco AS5300 y Cisco 3640

**Nota:** Hay un requisito para cargar el conjunto de funciones de Cisco IOS -x- para la funcionalidad

del gatekeeper en todas las plataformas de 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.

## Convenciones

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

## Antecedentes

Un control de acceso es una entidad H.323 en una LAN que ofrece la traducción de direcciones y control de acceso en la LAN para terminales y puertas de enlaces H.323. El gatekeeper puede proporcionar otros servicios a los terminales H.323 y a las gateways, como la administración del ancho de banda y la ubicación de las gateways. Un control de acceso mantiene un registro de los dispositivos en la red multimedia. Los dispositivos se registran con el gatekeeper durante el inicio y le solicitan a éste la admisión a una llamada.

Puede utilizar la configuración del gatekeeper en este documento para estos fines:

- Para ayudar a ampliar una implementación de VoIP donde ha instalado varios gateways y dispositivos finales. Esta configuración permite realizar cambios en un punto central, el gatekeeper.
- Para ayudar a controlar el control de admisión de llamadas (CAC) a fin de limitar el número de llamadas en la red
- Para implementar el uso de un proxy en la red para manejar las llamadas VoIP independientemente del tráfico de datos

## Configurar

En esta sección encontrará la información para configurar las funciones descritas en este documento.

**Nota:** Para encontrar información adicional sobre los comandos usados en este documento, utilice la [Command Lookup Tool](#) (sólo clientes registrados) .

## Diagrama de la red

Esta red es una topología sencilla con dos gateways Cisco AS5300. Una puerta de enlace se encuentra en San José y la otra en Raleigh. En cada sitio, hay una configuración de gatekeeper que se ejecuta en un Cisco 3640. En la topología que muestra esta sección, un gatekeeper no es realmente necesario para realizar llamadas VoIP simples entre las dos gateways. Pero el diagrama incluye un gatekeeper para mostrar cómo se ve la configuración completa.

Las configuraciones de gatekeeper de Cisco para esta topología difieren de una implementación VoIP normal de estas maneras:

- Cada gateway para la configuración del gateway se registra con el gatekeeper local con el

uso de los comandos **h323-gateway voip interface**. En este caso, las gateways son AS5300 y el gatekeeper es el 3640.

- El **destino de la sesión** en el comando **dial-peer voice 2 voip** señala al Registro, la Admisión y el Estado (RAS) en lugar de la **dirección ip** adecuada **ipv4:ip**. RAS realiza estas tareas: Define la ubicación para que el gateway se registre con el gatekeeper Envía solicitudes de admisión para cada llamada Realiza una encuesta de información de estado para las llamadas

En la red H.323, tiene un gatekeeper primario por zona. El gatekeeper puede controlar varios gateways o finalizar dispositivos H.323 en la zona. En la configuración que se muestra en esta sección, una llamada se dirige a la zona adecuada y al gatekeeper. A continuación, el control de acceso responde a la solicitud de llamada con la dirección IP del gateway registrado que tiene el prefijo tecnológico (**tech-prefix**) que coincide con el número llamado.



## Proceso de llamada

Estos pasos explican cómo funciona el proceso del gatekeeper. Un teléfono del lado de Raleigh realiza una llamada a un teléfono del lado de San José:

1. Raleigh 5300A recibe una llamada del PBX al 4085556400, que es un teléfono que se conecta al PBX de San José. Este número coincide con el número bajo el **dial-peer voice 2 voip** y también tiene un prefijo tecnológico de **408#**.
2. La solicitud de admisión al gatekeeper de Raleigh, Raleigh 3640A, incluye el prefijo de tecnología y el número llamado en el formato **408#4085556400**. El 4085556400 coincide con el comando del prefijo de zona 408.....
3. El gatekeeper de Raleigh envía una solicitud de ubicación al gatekeeper de San José, San José 3640A.
4. Debido a que la configuración del gatekeeper de San José contiene San José 5300A con un prefijo tecnológico de **408#**, el gatekeeper de San José responde al gatekeeper de Raleigh con la dirección IP de San José 5300.
5. Esta dirección IP se reenvía a Raleigh 5300A mediante una confirmación de admisión (ACF).
6. Raleigh 5300A abre una llamada H.323 normal con San José 5300A.

## Configuraciones

En este documento, se utilizan estas configuraciones:

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

- [San José 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 José 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 José 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

```

## Verificación

En esta sección encontrará información que puede utilizar para comprobar que su configuración funciona correctamente.

La herramienta [Output Interpreter](#) (sólo para clientes registrados) permite utilizar algunos comandos “show” y ver un análisis del resultado de estos comandos.

- **show debug**—Muestra los comandos **debug** que están habilitados
- **undebg all**: desactiva todas las depuraciones
- **show gatekeeper**—Muestra el estado del gatekeeper
- **show log**—Muestra la salida del archivo de registro
- **show call active voice brief**: muestra una versión abreviada del contenido de la tabla de llamadas activa. La pantalla muestra todas las llamadas con la conexión actual a través del router.
- **show call active voice**: muestra el contenido de la tabla de llamadas activa. Esta visualización muestra todas las llamadas con conexión actual a través del router.

- **show gatekeeper endpoints**—Muestra el estado de registro de los puntos finales en el gatekeeper
- **show gatekeeper call**: muestra las llamadas activas procesadas por el gatekeeper
- **show gatekeeper gw**: muestra el estado de registro de los puntos finales para el prefijo de tecnología

## Verificación del router 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/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
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#

```

## Verificación para router 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#

## Verificación del router 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),

clled(408#4085556400)

Mar 28 00:22:48.051: ssaSetupPeer cid(25) peer list: tag(1)



called number (408#4085556400)  
Mar 28 00:22:48.051: ssaSetupPeer cid(25), destPat(408#4085556400),  
matched(11), prefix(6),  
peer(61A03B88)  
Mar 28 00:22:48.051: ccCallProceeding (callID=0x19, prog\_ind=0x0)  
Mar 28 00:22:48.051: ccCallSetupRequest (Inbound call = 0x19,  
outbound peer =1, dest=,  
params=0x61A643EC mode=0, \*callID=0x619BB9F0)  
Mar 28 00:22:48.051: callingNumber=9195552010, calledNumber=408#4085556400,  
redirectNumber=  
Mar 28 00:22:48.051: accountNumber=, finalDestFlag=1,  
guid=1acb.27d8.98f4.0043.0000.0000.205d.0abc  
Mar 28 00:22:48.051: peer\_tag=1  
Mar 28 00:22:48.051: ccIFCallSetupRequest: (vdbPtr=0x619AC884,  
dest=, callParams=  
{called=408#4085556400, calling=9195552010, fdest=1, voice\_peer\_tag=1}, mode=0x0)  
Mar 28 00:22:48.051: ccCallSetContext (callID=0x1A, context=0x61A6DCC8)  
Mar 28 00:22:48.235: cc\_api\_call\_proceeding(vdbPtr=0x619AC884, callID=0x1A,  
prog\_ind=0x0)  
Mar 28 00:22:48.235: sess\_appl: ev(20=CC\_EV\_CALL\_PROCEEDING), cid(26), disp(0)  
Mar 28 00:22:48.235: ssaTraceSct: cid(26)st(1)oldst(0)cfid(-1)  
csize(0)in(0)fDest(0)-cid2(25)st2(1)oldst2(0)  
Mar 28 00:22:48.235: ssaIgnore cid(26), st(1),oldst(1), ev(20)  
Mar 28 00:22:49.215: cc\_api\_call\_alert(vdbPtr=0x619AC884,  
callID=0x1A, prog\_ind=0x8, sig\_ind=0x1)  
Mar 28 00:22:49.215: sess\_appl: ev(7=CC\_EV\_CALL\_ALERT), cid(26), disp(0)  
Mar 28 00:22:49.215: ssaTraceSct: cid(26)st(1)oldst(1)cfid(-1)csize(0)in(0)fDest(0)  
-cid2(25)st2(1)oldst2(0)  
Mar 28 00:22:49.215: ccCallAlert (callID=0x19, prog\_ind=0x8, sig\_ind=0x1)  
Mar 28 00:22:49.215: ccConferenceCreate (confID=0x619BBA38, callID1=0x19,  
callID2=0x1A, tag=0x0)  
Mar 28 00:22:49.219: cc\_api\_bridge\_done (confID=0xD, srcIF=0x616F8D2C,  
srcCallID=0x19,dstCallID=0x1A, disposition=0, tag=0x0)  
Mar 28 00:22:49.219: cc\_api\_bridge\_done (confID=0xD, srcIF=0x619AC884,  
srcCallID=0x1A, dstCallID=0x19, disposition=0, tag=0x0)  
Mar 28 00:22:49.219: cc\_api\_caps\_ind (dstVdbPtr=0x616F8D2C, dstCallId=0x19,  
srcCallId=0x1A, caps={codec=0xEBF7, fax\_rate=0xFF, vad=0x3,  
modem=0x3codec\_bytes=1637472312, signal\_type=2})  
Mar 28 00:22:49.219: sess\_appl: ev(28=CC\_EV\_CONF\_CREATE\_DONE),  
cid(25), disp(0)  
Mar 28 00:22:49.219: ssaTraceSct: cid(25)st(3)oldst(0)cfid(13)  
csize(0)in(1)fDest(1)-cid2(26)st2(3)oldst2(1)  
Mar 28 00:22:49.631: cc\_api\_caps\_ind (dstVdbPtr=0x619AC884,  
dstCallId=0x1A, srcCallId=0x19 caps={codec=0x4, fax\_rate=0x2, vad=0x2, modem=0x1  
codec\_bytes=20, signal\_type=0})  
Mar 28 00:22:49.631: cc\_api\_caps\_ack (dstVdbPtr=0x619AC884,  
dstCallId=0x1A, srcCallId=0x19,  
caps={codec=0x4, fax\_rate=0x2, vad=0x2, modem=0x1  
codec\_bytes=20, signal\_type=0})  
Mar 28 00:22:49.635: cc\_api\_caps\_ack (dstVdbPtr=0x616F8D2C,  
dstCallId=0x19, srcCallId=0x1A,  
caps={codec=0x4, fax\_rate=0x2, vad=0x2, modem=0x1  
codec\_bytes=20, signal\_type=0})  
Mar 28 00:22:51.491: cc\_api\_call\_connected(vdbPtr=0x619AC884, callID=0x1A)  
Mar 28 00:22:51.491: sess\_appl: ev(8=CC\_EV\_CALL\_CONNECTED), cid(26), disp(0)  
Mar 28 00:22:51.491: ssaTraceSct: cid(26)st(4)oldst(1)cfid(13)  
csize(0)in(0)fDest(0)-cid2(25)st2(4)oldst2(3)  
Mar 28 00:22:51.491: ccCallConnect (callID=0x19)  
Mar 28 00:22:51.491: ssaFlushPeerTagQueue cid(25) peer list: (empty)  
Mar 28 00:22:55.119: cc\_api\_call\_disconnected(vdbPtr=0x0, callID=0x19, cause=0x10)  
Mar 28 00:22:55.119: sess\_appl: ev(12=CC\_EV\_CALL\_DISCONNECTED), cid(25), disp(0)  
Mar 28 00:22:55.119: ssaTraceSct: cid(25)st(5)oldst(3)cfid(13)  
csize(0)in(1)fDest(1)-cid2(26) st2(5)oldst2(4)  
Mar 28 00:22:55.119: ssa: Disconnected cid(25) state(5) cause(0x10)

Mar 28 00:22:55.119: ccConferenceDestroy (confID=0xD, tag=0x0)  
Mar 28 00:22:55.119: cc\_api\_bridge\_drop\_done (confID=0xD,  
srcIF=0x616F8D2C, srcCallID=0x19, dstCallID=0x1A, disposition=0 tag=0x0)  
Mar 28 00:22:55.119: cc\_api\_bridge\_drop\_done (confID=0xD,  
srcIF=0x619AC884, srcCallID=0x1A, dstCallID=0x19, disposition=0 tag=0x0)  
Mar 28 00:22:55.119: sess\_appl: ev(29=CC\_EV\_CONF\_DESTROY\_DONE),  
cid(25), disp(0)  
Mar 28 00:22:55.119: ssaTraceSct: cid(25)st(6)oldst(5)cfid(-1)  
csize(0)in(1)fDest(1)-cid2(26)st2(6)oldst2(4)  
Mar 28 00:22:55.119: ccCallDisconnect (callID=0x19, cause=0x10 tag=0x0)  
Mar 28 00:22:55.119: ccCallDisconnect (callID=0x1A, cause=0x10 tag=0x0)  
Mar 28 00:22:55.123: RASLib::ras\_sendto: msg length 76 from  
172.16.110.2:52521 to 172.16.110.1:1719  
Mar 28 00:22:55.123: RASLib::RASSendDRQ: DRQ (seq# 12093) sent to  
172.16.110.1  
Mar 28 00:22:55.127: RASLib::RASRecvData: successfully rcvd message  
of length 3 from 172.16.110.1:1719  
Mar 28 00:22:55.127: RASLib::RASRecvData: DCF (seq# 12093) rcvd  
from [172.16.110.1:1719] on sock [0x61752218]  
Mar 28 00:22:55.127: cc\_api\_call\_disconnect\_done(vdbPtr=0x0,  
callID=0x19, disp=0, tag=0x0)  
Mar 28 00:22:55.127: sess\_appl: ev(13=CC\_EV\_CALL\_DISCONNECT\_DONE),  
cid(25), disp(0)  
Mar 28 00:22:55.127: ssaTraceSct: cid(25)st(7)oldst(6)cfid(-1)  
csize(0)in(1)fDest(1)-cid2(26)st2 (7)oldst2(4)  
Mar 28 00:22:55.139: cc\_api\_call\_disconnect\_done(vdbPtr=0x619AC884,  
callID=0x1A, disp=0, tag=0x61A630BC)  
Mar 28 00:22:55.139: sess\_appl: ev(13=CC\_EV\_CALL\_DISCONNECT\_DONE),  
cid(26), disp(0)  
Mar 28 00:22:55.139: ssaTraceSct: cid(26)st(7)oldst(4)cfid(-1)  
csize(1)in(0)fDest(0)  
Mar 28 00:22:55.443: RASLib::ras\_sendto: msg length 74 from 172.16.110.2:52521 to  
172.16.110.1:1719  
Mar 28 00:22:55.443: RASLib::RASSendRRQ: RRQ (seq# 12094) sent to 172.16.110.1  
Mar 28 00:22:55.447: RASLib::RASRecvData: successfully rcvd message  
of length 52 from 172.16.110.1:1719  
Mar 28 00:22:55.447: RASLib::RASRecvData: RCF (seq# 12094) rcvd  
from [172.16.110.1:1719] on sock [0x61752218]  
Mar 28 00:23:40.448: RASLib::ras\_sendto: msg length 74 from 172.16.110.2:52521 to  
172.16.110.1:1719  
Mar 28 00:23:40.448: RASLib::RASSendRRQ: RRQ (seq# 12095) sent to 172.16.110.1  
Mar 28 00:23:40.452: RASLib::RASRecvData: successfully rcvd message  
of length 52 from 172.16.110.1:1719  
Mar 28 00:23:40.452: RASLib::RASRecvData: RCF (seq# 12095) rcvd from  
[172.16.110.1:1719] on sock [0x61752218]  
Mar 28 00:24:25.452: RASLib::ras\_sendto: msg length 74 from 172.16.110.2:52521 to  
172.16.110.1:1719  
Mar 28 00:24:25.452: RASLib::RASSendRRQ: RRQ (seq# 12096) sent to 172.16.110.1  
Mar 28 00:24:25.456: RASLib::RASRecvData: successfully rcvd message of  
length 52 from 172.16.110.1:1719  
Mar 28 00:24:25.456: RASLib::RASRecvData: RCF (seq# 12096) rcvd  
from [172.16.110.1:1719] on sock [0x61752218]  
Mar 28 00:25:10.457: RASLib::ras\_sendto: msg length 74 from 172.16.110.2:52521 to  
172.16.110.1:1719  
Mar 28 00:25:10.457: RASLib::RASSendRRQ: RRQ (seq# 12097) sent to 172.16.110.1  
Mar 28 00:25:10.461: RASLib::RASRecvData: successfully rcvd message  
of length 52 from 172.16.110.1:1719  
Mar 28 00:25:10.461: RASLib::RASRecvData: RCF (seq# 12097) rcvd  
from [172.16.110.1:1719] on sock [0x61752218]  
SanJose5300A#

Raleigh5300A# **show call active voice brief**

<ID>: <start>hs.<index> +<connect> pid:<peer\_id> <dir> <addr> <state>  
dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <state>

IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>  
delay:<last>/<min>/<max>ms <codec>  
FR <protocol><y/n><y/n><y/n><on/off> [int dici cid] vad: dtmf: seq:  
sig: <codec> (payload size)  
Tele <int>: tx:<tot>/<v>/<fax>ms <codec> noise:<l> acom:<l> i/o:<l>/<l> dBm

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

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

SanJose5300A# **show call active voice**

GENERIC:

SetupTime=54285525 ms

Index=1

PeerAddress=9195552010

PeerSubAddress=

PeerId=2

PeerIfIndex=17

LogicalIfIndex=0

ConnectTime=54286632

CallDuration=00:00:44

CallState=4

CallOrigin=2

ChargedUnits=0

InfoType=2

TransmitPackets=2415

TransmitBytes=48300

ReceivePackets=1055

ReceiveBytes=21100

VOIP:

ConnectionId[0x1ACB27D8 0x98F4004B 0x0 0x206098B4]

RemoteIPAddress=172.16.120.2

RemoteUDPPort=17698

RoundTripDelay=65535 ms

SelectedQoS=best-effort

tx\_DtmfRelay=inband-voice

SessionProtocol=cisco

SessionTarget=

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#

```

## Verificación del router San Jose 3640A

```

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

## [Información de llamadas del control de acceso](#)

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

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

### Comandos para resolución de problemas

**Nota:** Antes de ejecutar **comandos debug**, consulte [Información Importante sobre Comandos Debug](#).

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

**Nota:** Refiérase a [Comprensión y Troubleshooting del Proceso de TTL y Aging Out del Gatekeeper](#). Este documento describe cómo Cisco Gatekeeper desactualiza los terminales con el uso del valor de Tiempo de vida (TTL).

## Información Relacionada

- [Soporte de tecnología de voz](#)
- [Soporte para productos de comunicaciones IP y por voz](#)
- [Troubleshooting de Cisco IP Telephony](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)