

# VoIP con Gatekeeper

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## Introducción

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

## prerrequisitos

### Requisitos

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 de cargar al conjunto de características de Cisco IOS – x – para la

funcionalidad de gatekeeper en todas las Plataformas de Cisco.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

## [Convenciones](#)

Para obtener más información sobre las convenciones del documento, consulte las [Convenciones de Consejos Técnicos de Cisco](#).

## [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 portero puede proporcionar los otros servicios a los Terminales H.323 y a los gateways, tales como administración del ancho de banda y la ubicación de los 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.

Usted puede utilizar la configuración de control de acceso en este documento para estos propósitos:

- Para ayudar a escalar una implementación de VoIP donde usted ha instalado varios gateways y dispositivos extremos. Esta configuración permite que los cambios sean realizados en un punto central, el portero.
- Para ayudar al control de admisión de llamadas del control (CAC) para limitar el número de llamadas en la red
- Para implementar el uso de un proxy en la red de manejar sus llamadas VoIP por separado de su tráfico de datos

## [Configurar](#)

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

**Nota:** Para obtener información adicional sobre los comandos que se utilizan en este documento, use la Command Lookup Tool (solo para clientes [registrados](#)).

## [Diagrama de la red](#)

Esta red es una topología simple con dos gateways del Cisco AS5300. Un gateway está en el San José, y el otro gateway está en el Raleigh. En cada sitio, hay una configuración de control de acceso que se ejecuta en un Cisco 3640. En la topología que esta sección muestra, un portero no es realmente necesario para poner las llamadas VoIP simples entre los dos gateways. Pero el diagrama incluye a un portero para mostrar cómo la configuración completa mira.

El gatekeeper de Cisco configuraciones para esta topología diferencia de una implementación de

VoIP regular de estas maneras:

- Cada gateway para la configuración del gateway se registra con el control de acceso local con el uso de los **comandos h323 – gateway voip interface**. En este caso, los gateways son AS5300, y el portero es los 3640.
- **El destino de la sesión** en el **comando dial – peer voice 2 voip** señala al registro, a la admisión, y al estatus (RAS) en vez del **ipv4** apropiado: **IP Address**. El RAS realiza estas tareas: Define la ubicación para que el gateway se registre con el portero Envía los pedidos de admisión para cada llamada Conduce cierta interrogación de la información de estatus para las llamadas

En la red de H.323, usted tiene un gatekeeper primario por la zona. El portero puede controlar los gateways múltiples o los dispositivos de H.323 del final en la zona. En la configuración que esta sección ilustra, las rutas de una llamada a la zona apropiada y el portero. Entonces, el portero contesta al pedido de llamada con la dirección IP del gateway registrado que tiene el prefijo de tecnología (**tecnología – prefijo**) ese las coincidencias número al que se llamó.



## Proceso de llamada

Estos pasos explican cómo los procesos funciona del portero. Un teléfono en el lado del Raleigh pone una llamada a un teléfono en el lado del San José:

1. El Raleigh 5300A recibe una llamada del PBX a 4085556400, que es un teléfono que conecta con el San José PBX. Este número hace juego el número bajo el **voip de la voz de dial-peer 2** y también tiene un prefijo de tecnología de **408#**.
2. El pedido de admisión al guardabarrera Raleigh, el Raleigh 3640A, incluye el prefijo de tecnología y número al que se llamó en el formato **408#4085556400**. El 4085556400 coincide con el comando del prefijo de zona 408.....
3. El guardabarrera Raleigh envía un Location Request al gatekeeper San José, el San José 3640A.
4. Porque la configuración del gatekeeper San José contiene el San José 5300A con un prefijo de tecnología de **408#**, el gatekeeper San José contesta al guardabarrera Raleigh con la dirección IP del San José 5300.
5. Esta dirección IP adelante al Raleigh 5300A vía Confirmación de admisión (ACF).
6. El Raleigh 5300A abre una llamada normal de H.323 con el 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.

- **debug de la demostración** — Visualiza los comandos debug se habilitan que
- **undebug todo** — Apaga todos los debugs
- **portero de la demostración** — Visualiza el estatus del portero
- **registro de la demostración** — Visualiza la salida del archivo del registro
- **muestre la descripción de la voz activa de la llamada** — Visualiza una versión abreviada del contenido de la tabla de llamada activaLa visualización muestra todas las llamadas con la conexión actual a través del router.
- **muestre la voz activa de la llamada** — Visualiza el contenido de la tabla de llamada activaEsta visualización muestra todas las llamadas con la conexión actual a través del router.
- **muestre los puntos finales del portero** — Visualiza el estado de registro de los puntos finales al portero
- **show gatekeeper call** — Visualiza las llamadas activas que el portero procesó
- **muestre al portero gw** — Visualiza 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), 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.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#

```

## Verificación para router Raleigh 3640A

```

Raleigh3640A# show gatekeeper end GATEKEEPER ENDPOINT REGISTRATION
===== CallSignalAddr Port RASSignalAddr Port Zone Name Type F
-----
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 919552010 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=919552010, 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 cilng(919552010), ciled(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=919552010, 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=919552010, 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/o:-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:            919552010
  dst EP: SJ5300A    408#408555640 172.16.110.2    1720 172.16.110.2    52521
```

SanJose3640A#

# Troubleshooting

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

## Comandos para resolución de problemas

**Nota:** [Antes de ejecutar un comando de depuración, consulte Información importante sobre comandos de depuración.](#)

- [haga el debug de los ras](#)
- [haga el debug del asn1 h245](#)
- [debug h225 asn1](#)

**Nota:** Refiera a [entender y a resolver problemas el portero TTL y el proceso de desactualización](#). Este documento describe cómo el gatekeeper de Cisco envejece hacia fuera los puntos finales con el uso del valor del Time to Live (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](#)