

# VoIP con Gatekeeper

## Sommario

[Introduzione](#)

[Prerequisiti](#)

[Requisiti](#)

[Componenti usati](#)

[Convenzioni](#)

[Premesse](#)

[Configurazione](#)

[Esempio di rete](#)

[Processo di chiamata](#)

[Configurazioni](#)

[Verifica](#)

[Verifica per router Raleigh 5300A](#)

[Verifica per Raleigh 3640A Router](#)

[Verifica per San Jose 5300A Router](#)

[Verifica per San Jose 3640A Router](#)

[Informazioni chiamata Gatekeeper](#)

[Risoluzione dei problemi](#)

[Comandi per la risoluzione dei problemi](#)

[Informazioni correlate](#)

## Introduzione

In questo documento viene spiegato come configurare e verificare una rete VoIP con un gatekeeper.

## Prerequisiti

### Requisiti

Nessun requisito specifico previsto per questo documento.

### Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- Software Cisco IOS® versione 12.1(1)
- Router Cisco AS5300 e Cisco 3640

**Nota:** è necessario caricare il set di funzionalità di Cisco IOS -x- per la funzionalità gatekeeper su tutte le piattaforme Cisco.

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

## Convenzioni

Per ulteriori informazioni sulle convenzioni usate, consultare il documento [Cisco sulle convenzioni nei suggerimenti tecnici](#).

## Premesse

Un gatekeeper è un'entità H.323 presente su una LAN che fornisce la conversione degli indirizzi e il controllo dell'accesso alla LAN per i terminali e i gateway H.323. Il gatekeeper può fornire altri servizi ai terminali e ai gateway H.323, quali la gestione della larghezza di banda e la posizione dei gateway. Un gatekeeper mantiene un registro dei dispositivi nella rete multimediale. I dispositivi si registrano con il gatekeeper all'avvio e richiedono l'ammissione a una chiamata dal gatekeeper.

La configurazione gatekeeper può essere utilizzata in questo documento per i seguenti scopi:

- Per scalare un'implementazione VoIP in cui sono stati installati più gateway e dispositivi terminali. Questa configurazione permette di apportare le modifiche in un punto centrale, il gatekeeper.
- Controllare il controllo di ammissione di chiamata (CAC) per limitare il numero di chiamate in rete
- Per implementare l'utilizzo di un proxy in rete per gestire le chiamate VoIP separatamente dal traffico dati

## Configurazione

In questa sezione vengono presentate le informazioni necessarie per configurare le funzionalità descritte più avanti nel documento.

**Nota:** per ulteriori informazioni sui comandi menzionati in questo documento, usare lo [strumento di ricerca dei comandi](#) (solo utenti [registrati](#)).

## Esempio di rete

Questa rete è una topologia semplice con due gateway Cisco AS5300. Una porta si trova a San Jose, l'altra a Raleigh. In ciascun sito è presente una configurazione gatekeeper su Cisco 3640. Nella topologia illustrata in questa sezione, un gatekeeper non è realmente necessario per effettuare semplici chiamate VoIP tra i due gateway. Ma il diagramma include un gatekeeper per mostrare come appare la configurazione completa.

Le configurazioni Gatekeeper Cisco per questa topologia differiscono da un'implementazione VoIP

standard per i seguenti aspetti:

- Ogni gateway per la configurazione del gateway viene registrato con il gatekeeper locale con l'uso dei comandi **dell'interfaccia voip del gateway h323**. In questo caso, i gateway sono AS5300 e il gatekeeper è 3640.
- La **destinazione della sessione** nel comando **dial-peer voice 2 voip** punta a Registration, Admission, and Status (RAS) anziché all'**indirizzo ipv4:ip appropriato**. RAS esegue le seguenti attività:  
Definisce la posizione di registrazione del gateway con il gatekeeper  
Invia richieste di ammissione per ogni chiamata  
Esegue il polling di informazioni sullo stato per le chiamate

Nella rete H.323, si ha un gatekeeper primario per zona. Il gatekeeper può controllare più gateway o terminare i dispositivi H.323 nella zona. Nella configurazione illustrata in questa sezione, una chiamata viene indirizzata alla zona e al gatekeeper appropriati. Quindi, il gatekeeper risponde alla richiesta di chiamata con l'indirizzo IP del gateway registrato con il prefisso tecnologico (**tech-prefix**) che corrisponde al numero chiamato.



## Processo di chiamata

Questi passaggi spiegano come funziona il processo gatekeeper. Un telefono sul lato di Raleigh chiama un telefono sul lato di San Jose:

1. Raleigh 5300A riceve una chiamata dal PBX a 408556400, un telefono che si connette al PBX di San Jose. Questo numero corrisponde al numero sotto il **dial-peer voice 2 voip** e ha anche un prefisso tecnologico di **408#**.
2. La richiesta di ammissione al gatekeeper di Raleigh, Raleigh 3640A, include il prefisso tecnologico e il numero chiamato nel formato **408#408556400**. Lo switch **408556400** corrisponde al comando **zone prefix** di **408.....**
3. Il gatekeeper di Raleigh invia una richiesta di posizione al gatekeeper di San Jose, San Jose 3640A.
4. Poiché la configurazione del gatekeeper San Jose contiene San Jose 5300A con un prefisso tecnologico di **408#**, il gatekeeper San Jose risponde al gatekeeper Raleigh con l'indirizzo IP San Jose 5300.
5. Questo indirizzo IP viene inoltrato a Raleigh 5300A tramite una conferma di ammissione (ACF).
6. Raleigh 5300A apre una normale chiamata H.323 con San Jose 5300A.

## Configurazioni

Nel documento vengono usate queste configurazioni:

- [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

```

## Verifica

Le informazioni contenute in questa sezione permettono di verificare che la configurazione funzioni correttamente.

Alcuni comandi **show** sono supportati dallo [strumento Output Interpreter \(solo utenti registrati\)](#); lo strumento permette di visualizzare un'analisi dell'output del comando **show**.

- **show debug**: visualizza i comandi di **debug** abilitati
- **undebg all**: disattiva tutti i debug
- **show gatekeeper**: visualizza lo stato del gatekeeper
- **show log**: visualizza l'output del file di log.
- **show call active voice brief**: visualizza una versione abbreviata del contenuto della tabella delle chiamate attive. Sul display compaiono tutte le chiamate con la connessione corrente

attraverso il router.

- **show call active voice**: visualizza il contenuto della tabella delle chiamate attive. In questo display vengono visualizzate tutte le chiamate con la connessione corrente attraverso il router.
- **show gatekeeper endpoints**: visualizza lo stato di registrazione degli endpoint sul gatekeeper
- **show gatekeeper call**: visualizza le chiamate attive elaborate dal gatekeeper
- **show gatekeeper gw**: visualizza lo stato di registrazione degli endpoint per il prefisso tecnologico

## Verifica per 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/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#

```

## [Verifica per Raleigh 3640A Router](#)

```
Raleigh3640A# show gatekeeper end
```

```
GATEKEEPER ENDPOINT REGISTRATION
```

```
=====
```

CallSignalAddr	Port	RASSignalAddr	Port	Zone Name	Type	F
172.16.120.2	1720	172.16.120.2	51726	RALgk1	VOIP-GW	

H323-ID: RAL5300A@cisco.com  
Total number of active registrations = 1

Raleigh3640A# **show gatekeeper gw**

GATEWAY TYPE PREFIX TABLE

=====

Prefix: 408#\*

Prefix: 919#\*

Zone RALgk1 master gateway list:

172.16.120.2:1720 RAL5300A

Raleigh3640A# **show log**

Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)

Console logging: level debugging, 239 messages logged

Monitor logging: level debugging, 0 messages logged

Buffer logging: level debugging, 239 messages logged

Trap logging: level informational, 106 message lines logged

Log Buffer (50000 bytes):

Mar 28 00:22:48.019: RASLib::RASRecvData: successfully rcvd message of length 115 from 172.16.120.2:51726

Mar 28 00:22:48.019: RASLib::RASRecvData: ARQ (seq# 12119) rcvd from [172.16.120.2:51726] on sock [0x60F2F9A0] RASLib::parse\_arq\_nonstd: ARQ Nonstd decode succeeded, remlen = 0

Mar 28 00:22:48.023: RASLib::ras\_sendto: msg length 7 from 172.16.120.1:1719 to 172.16.120.2:51726

Mar 28 00:22:48.023: RASLib::RASSendRIP: RIP (seq# 12119) sent to 172.16.120.2

Mar 28 00:22:48.023: RASLib::RAS\_WK\_TInit: ipsock [0x612328CC] setup successful

Mar 28 00:22:48.027: RASLib::ras\_sendto: msg length 79 from 172.16.120.1:52893 to 172.16.110.1:1719

Mar 28 00:22:48.027: RASLib::RASSendLRQ: LRQ (seq# 20) sent to 172.16.110.1

Mar 28 00:22:48.035: RASLib::RASRecvData: successfully rcvd message of length 128 from 172.16.110.1:1719

Mar 28 00:22:48.035: RASLib::RASRecvData: LCF (seq# 20) rcvd from [172.16.110.1:1719] on sock [0x612328CC] RASLib::parse\_lcf\_nonstd: LCF Nonstd decode succeeded, remlen = 0

Mar 28 00:22:48.039: RASLib::ras\_sendto: msg length 24 from 172.16.120.1:1719 to 172.16.120.2:51726

Mar 28 00:22:48.039: RASLib::RASSendACF: ACF (seq# 12119) sent to 172.16.120.2

Mar 28 00:22:55.123: RASLib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:51726

Mar 28 00:22:55.123: RASLib::RASRecvData: DRQ (seq# 12120) rcvd from [172.16.120.2:51726] on sock [0x60F2F9A0]

Mar 28 00:22:55.127: RASLib::ras\_sendto: msg length 3 from 172.16.120.1:1719 to 172.16.120.2:51726

Mar 28 00:22:55.127: RASLib::RASSendDCF: DCF (seq# 12120) sent to 172.16.120.2

Mar 28 00:23:14.247: RASLib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:51726

Mar 28 00:23:14.251: RASLib::RASRecvData: RRQ (seq# 12121) rcvd from [172.16.120.2:51726] on sock [0x60F2F9A0]

Mar 28 00:23:14.251: RASLib::ras\_sendto: msg length 52 from 172.16.120.1:1719 to 172.16.120.2:51726

Mar 28 00:23:14.251: RASLib::RASSendRCF: RCF (seq# 12121) sent to 172.16.120.2

Mar 28 00:23:59.251: RASLib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:51726

Mar 28 00:23:59.251: RASLib::RASRecvData: RRQ (seq# 12122) rcvd from [172.16.120.2:51726] on sock [0x60F2F9A0]

```
Mar 28 00:23:59.255: RASLib::ras_sendto: msg length 52 from
172.16.120.1:1719 to 172.16.120.2:51726
Mar 28 00:23:59.255: RASLib::RASSendRCF: RCF (seq# 12122) sent to 172.16.120.2
Mar 28 00:24:44.255: RASLib::RASRecvData: successfully rcvd message of length 76
from 172.16.120.2:51726
Mar 28 00:24:44.255: RASLib::RASRecvData: RRQ (seq# 12123) rcvd from
[172.16.120.2:51726] on sock [0x60F2F9A0]
Mar 28 00:24:44.259: RASLib::ras_sendto: msg length 52 from 172.16.120.1:1719
to 172.16.120.2:51726
Mar 28 00:24:44.259: RASLib::RASSendRCF: RCF (seq# 12123) sent to 172.16.120.2
Raleigh3640A#
```

Raleigh3640A# **show gatekeeper call**

Total number of active calls = 1.

GATEKEEPER CALL INFO

=====

LocalCallID	Age(secs)	BW			
18-6872	41	64 (Kbps)			
Endpt(s): Alias	E.164Addr	CallSignalAddr	Port	RASSignalAddr	Port
src EP: RAL5300A	9195552010	172.16.120.2	1720	172.16.120.2	51726
dst EP:	408#408555640	172.16.110.2	1720	172.16.110.2	1720

Raleigh3640A#

## [Verifica per San Jose 5300A Router](#)

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),  
clded(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/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#

```

**[Verifica per 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

[Informazioni chiamata 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#

## Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

### Comandi per la risoluzione dei problemi

**Nota:** prima di usare i comandi di **debug**, consultare le [informazioni importanti sui comandi di debug](#).

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

**Nota:** fare riferimento a [Descrizione e risoluzione dei problemi di TTL Gatekeeper e processo di aging out](#). Questo documento descrive come Cisco Gatekeeper analizza gli endpoint con l'utilizzo del valore TTL (Time to Live).

## Informazioni correlate

- [Supporto alla tecnologia vocale](#)
- [Supporto dei prodotti per le comunicazioni voce e IP](#)
- [Risoluzione dei problemi di Cisco IP Telephony](#)
- [Documentazione e supporto tecnico – Cisco Systems](#)