

# ةب اوبل اةي امح جم ان رب عم VoIP

## المحتويات

<a href="#">المقدمة</a>
<a href="#">المتطلبات الأساسية</a>
<a href="#">المتطلبات</a>
<a href="#">المكونات المستخدمة</a>
<a href="#">الاصطلاحات</a>
<a href="#">معلومات أساسية</a>
<a href="#">التكوين</a>
<a href="#">الرسم التخطيطي للشبكة</a>
<a href="#">عملية المكالمة</a>
<a href="#">التكوينات</a>
<a href="#">التحقق من الصحة</a>
<a href="#">التحقق من صحة الموجه Rali 5300A</a>
<a href="#">التحقق من موجه Rali 3640A</a>
<a href="#">التحقق من موجه SAN Jose 5300A</a>
<a href="#">التحقق من موجه SAN Jose 3640A</a>
<a href="#">معلومات مكالمة برنامج حماية البوابة</a>
<a href="#">استكشاف الأخطاء وإصلاحها</a>
<a href="#">أوامر استكشاف الأخطاء وإصلاحها</a>
<a href="#">معلومات ذات صلة</a>

## [المقدمة](#)

يوضح هذا المستند كيفية تكوين شبكة VoIP والتحقق منها باستخدام برنامج حماية البوابة.

## [المتطلبات الأساسية](#)

### [المتطلبات](#)

لا توجد متطلبات خاصة لهذا المستند.

### [المكونات المستخدمة](#)

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

• برنامج IOS © الإصدار 12.1(1) من Cisco

• الموجهات Cisco AS5300 و Cisco 3640

ملاحظة: هناك متطلبات لتحميل مجموعة ميزات Cisco IOS-x- لوظائف برنامج حماية البوابة على جميع أنظمة Cisco الأساسية.

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

## [الاصطلاحات](#)

للحصول على مزيد من المعلومات حول اصطلاحات المستندات، ارجع إلى [اصطلاحات تلميحات Cisco التقنية](#).

## [معلومات أساسية](#)

A gatekeeper هو كيان H.323 على شبكة LAN يوفر ترجمة العنوان والتحكم في الوصول إلى شبكة LAN للوحدات الطرفية والعبارات H.323. يمكن أن يوفر برنامج حماية البوابة خدمات أخرى إلى محطات H.323 والعبارات، مثل إدارة النطاق الترددي وموقع البوابات. يحتفظ برنامج حماية البوابة بسجل للأجهزة في شبكة الوسائط المتعددة. تقوم الأجهزة بالتسجيل مع برنامج حماية البوابة عند بدء التشغيل وطلب الإذن بإجراء مكالمات من برنامج حماية البوابة.

يمكنك استخدام تكوين برنامج حماية البوابة في هذا المستند لهذه الأغراض:

- للمساعدة على تطوير عملية تنفيذ بروتوكول VoIP حيث قمت بتثبيت عدة بوابات وأجهزة طرفية يتيح هذا التكوين إجراء التغييرات في نقطة مركزية، وهي حماية البوابة.
- للمساعدة في التحكم في الدخول للاستدعاء (CAC) للحد من عدد المكالمات على الشبكة
- لتنفيذ استخدام وكيل على الشبكة لمعالجة مكالمات VoIP الخاصة بك بشكل منفصل عن حركة مرور البيانات

## [التكوين](#)

في هذا القسم، تُقدّم لك معلومات تكوين الميزات الموضحة في هذا المستند.

**ملاحظة:** للعثور على معلومات إضافية حول الأوامر المستخدمة في هذا المستند، استخدم [أداة بحث الأوامر \(للعلماء المسجلين فقط\)](#).

## [الرسم التخطيطي للشبكة](#)

هذه الشبكة عبارة عن مخطط بسيط مزود ببوابتين Cisco AS5300. توجد إحدى البوابات في سان خوسيه، أما البوابة الأخرى فهي في رالي. في كل موقع، هناك تكوين برنامج حماية البوابة الذي يعمل على Cisco 3640. في الطوبولوجيا التي يظهرها هذا القسم، ليس من الضروري حقا توفر "حارس بوابة" لوضع مكالمات VoIP بسيطة بين البوابين. غير أن المخطط يتضمن برنامج حماية البوابة لعرض كيفية ظهور التكوين الكامل.

تختلف تكوينات "برنامج حماية البوابة" من Cisco لهذا المخطط عن التنفيذ المنتظم لبروتوكول VoIP بهذه الطرق:

- تقوم كل بوابة لإعداد البوابة بالتسجيل مع البوابة المحلية باستخدام أوامر واجهة voip للعبارة h323. في هذه الحالة، تكون البوابات AS5300s، ومسؤول البوابة هو 3640.
- يشير هدف جلسة العمل في الأمر dial-peer voice 2 voip إلى التسجيل والقبول والحالة (RAS) بدلا من عنوان IP:IPv4 المناسب. يقوم نظام الوصول عن بعد (RAS) بتنفيذ هذه المهام: تحديد موقع البوابة للتسجيل مع برنامج حماية البوابة إرسال طلبات قبول لكل مكالمات إجراء فحص لمعلومات حالة معينة للمكالمات في شبكة H.323، لديك برنامج حماية البوابة الرئيسي لكل منطقة. يمكن أن يتحكم برنامج حماية البوابة في عدة بوابات أو إنهاء أجهزة H.323 في المنطقة. في التكوين الذي يوضح هذا القسم، يتم توجيه مكالمات إلى المنطقة المناسبة وبرنامج حماية البوابة. بعد ذلك، يستجيب برنامج حماية البوابة إلى طلب الاستدعاء باستخدام عنوان IP الخاص بالبوابة المسجلة التي تحتوي على بادئة التقنية (tech-prefix) التي تطابق الرقم المستدعي.



## عملية المكالمة

توضح هذه الخطوات كيفية عمل عملية برنامج حماية البوابة. يضع هاتف على جانب الراي مكالمة على الهاتف على جانب سان خوسيه:

1. Raleigh 5300a يتلقى مكالمة من ال PBX إلى 4085556400، وهو هاتف يتصل ب San Jose PBX. يتطابق هذا الرقم مع الرقم الموجود تحت صوت نظير الطلب 2 voIP كما يحتوي على بادئة تقنية #408.
2. يتضمن طلب الدخول إلى حارس بوابة Raleigh 3640A، البادئة التقنية والرقم المستدعي بالتنسيق 4085556400#408. يطابق ال 4085556400 أمر بادئة المنطقة من 408.....
3. يرسل برنامج حماية البوابة في مدينة رالي طلب تحديد موقع إلى حارس بوابة سان خوسيه، سان خوسيه 3640A.
4. بما أن تكوين برنامج حماية البوابة في سان خوسيه يحتوي على San Jose 5300A مع بادئة تقنية #408، فإن برنامج حماية البوابة في سان خوسيه يرد على برنامج حماية البوابة في سان خوسيه 5300.
5. يتم إعادة توجيه عنوان IP هذا إلى Rali 5300A عبر تأكيد الدخول (ACF).
6. رالي 5300a تفتح مكالمة H.323 عادية مع سان خوسيه 5300a.

## التكوينات

يستخدم هذا المستند التكوينات التالية:

- [رالي 5300a](#)
- [رالي 3640a](#)
- [سان خوسيه 5300a](#)
- [سان خوسيه 3640a](#)

```

5300a رالي
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

```

### 3640a رالي

```

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

```

### سان خوسيه 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
```

### سان خوسيه 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

```

## التحقق من الصحة

يوفر هذا القسم معلومات يمكنك استخدامها للتأكد من أن التكوين يعمل بشكل صحيح.

يتم دعم بعض أوامر العرض بواسطة [أداة مترجم الإخراج \(العملاء المسجلون فقط\)](#)، والتي تتيح لك عرض تحليل [إخراج أمر العرض](#).

- **show debug** — يعرض أوامر **debug** التي يتم تمكينها
- **إلغاء تصحيح الأخطاء الكل** — يوقف تشغيل كل تصحيح الأخطاء
- **show gatekeeper** — يعرض حالة برنامج حماية البوابة
- **show log** — يعرض إخراج ملف السجل
- **إظهار ملخص الصوت النشط** — يعرض إصدارا مختصرا لمحتويات جدول المكالمات النشط يعرض العرض جميع المكالمات ذات الاتصال الحالي من خلال الموجه.
- **إظهار الصوت النشط** — يعرض محتويات جدول الاتصال النشط يعرض جميع المكالمات ذات الاتصال الحالي من خلال الموجه.
- **show gatekeeper endpoints** — يعرض حالة تسجيل نقاط النهاية إلى برنامج حماية البوابة
- **show gatekeeper call** — يعرض المكالمات النشطة التي قام برنامج حماية البوابة بمعالجتها
- **show gatekeeper gw** — يعرض حالة تسجيل نقاط النهاية لبادئة التقنية

## التحقق من صحة الموجه Rali 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# undebg 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  
(called4085556400  
(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
                                to 172.16.120.1:1719 172.16.120.2:51726
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
OnTimeRvPlyout=25900
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlyoutDelay=70 ms
LoWaterPlyoutDelay=50 ms
ReceiveDelay=50 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
#Raleigh5300A

```

## Rali 3640A التحقق من موجه

```

Raleigh3640A# show gatekeeper end
GATEKEEPER ENDPOINT REGISTRATION
=====
CallSignalAddr  Port  RASignalAddr  Port  Zone Name          Type  F
-----
RALgk1          VOIP-GW 51726   172.16.120.2  1720   172.16.120.2
                                     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
RAL5300A 172.16.120.2:1720

```

```

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
on sock [0x60F2F9A0] RASLib::parse_arq_nonstd: ARQ [172.16.120.2:51726]
Nonstd decode succeeded, remlen = 0
Mar 28 00:22:48.023: RASlib::ras_sendto: msg length 7 from

```

```

to 172.16.120.2:51726 172.16.120.1:1719
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
to 172.16.110.1:1719 172.16.120.1:52893
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
from 172.16.110.1:1719 128
Mar 28 00:22:48.035: RASLib::RASRecvData: LCF (seq# 20) rcvd from
:on sock [0x612328CC] RASLib::parse_lcf_nonstd [172.16.110.1:1719]
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
from 172.16.120.2:51726 76
Mar 28 00:22:55.123: RASLib::RASRecvData: DRQ (seq# 12120) rcvd from
[on sock [0x60F2F9A0 [172.16.120.2:51726]
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
[on sock [0x60F2F9A0 [172.16.120.2:51726]
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
[on sock [0x60F2F9A0 [172.16.120.2:51726]
Mar 28 00:23:59.255: RASlib::ras_sendto: msg length 52 from
to 172.16.120.2:51726 172.16.120.1:1719
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
[on sock [0x60F2F9A0 [172.16.120.2:51726]
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
	(Kbps)64	41	6872-18
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

[التحقق من موجة 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  
to 172.16.110.1:1719 172.16.110.2:52521  
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  
from 172.16.110.1:1719 24  
Mar 28 00:22:48.047: RASLib::RASRecvData: ACF (seq# 12092) rcvd from  
[on sock [0x61752218 [172.16.110.1:1719]  
,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  
(called(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
to 172.16.110.1:1719 172.16.110.2:52521
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  
[on sock [0x61752218 [172.16.110.1:1719]  
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  
OnTimeRvPlayout=21090  
GapFillWithSilence=0 ms  
GapFillWithPrediction=0 ms  
GapFillWithInterpolation=0 ms  
GapFillWithRedundancy=0 ms  
HiWaterPlayoutDelay=70 ms  
LoWaterPlayoutDelay=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

## SAN Jose 3640A التحقق من موجه

SanJose3640A# **show gatekeeper end**

### GATEKEEPER ENDPOINT REGISTRATION

=====

CallSignalAddr	Port	RASignalAddr	Port	Zone Name	Type	F
SJgk1		VOIP-GW 52521	172.16.110.2	1720	172.16.110.2	

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

SJ5300A 172.16.110.2:1720

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 on sock [0x60FE9B04] RASLib::parse\_lrq\_nonstd: LRQ Nonstd [172.16.120.1:52893] 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 from 172.16.110.2:52521 122

Mar 28 00:22:48.049: RASLib::RASRecvData: ARQ (seq# 12092) rcvd from :on sock [0x60FE9B04] RASLib::parse\_arq\_nonstd [172.16.110.2:52521] 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 [on sock [0x60FE9B04] [172.16.110.2:52521]

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

```
[on sock [0x60FE9B04 [172.16.110.2:52521]]
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
[on sock [0x60FE9B04 [172.16.110.2:52521]]
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
[on sock [0x60FE9B04 [172.16.110.2:52521]]
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
from 172.16.110.2:52521 74
Mar 28 00:25:10.465: RASLib::RASRecvData: RRQ (seq# 12097) rcvd from
[on sock [0x60FE9B04 [172.16.110.2:52521]]
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
```

## معلومات مكالمة برنامج حماية البوابة

```
GATEKEEPER CALL INFO
=====
LocalCallID                               Age(secs)  BW
(Kbps)64                                  60         6872-15
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
```

## استكشاف الأخطاء وإصلاحها

يوفر هذا القسم معلومات يمكنك استخدامها لاستكشاف أخطاء التكوين وإصلاحها.

## أوامر استكشاف الأخطاء وإصلاحها

ملاحظة: قبل إصدار أوامر debug، راجع [المعلومات المهمة في أوامر تصحيح الأخطاء](#).

[debug ras](#) •

[debug h245 asn1](#) •

[debug h225 asn1](#) •

ملاحظة: ارجع إلى [فهم مدة البقاء \(TTL\) لبرنامج Gatekeeper واستكشاف أخطاء هذه العملية وإصلاحها](#). يصف هذا المستند كيفية قيام Cisco Gatekeeper بسحب نقاط النهاية باستخدام قيمة مدة البقاء (TTL).

## معلومات ذات صلة

- دعم تقنية الصوت
- دعم منتجات الاتصالات الصوتية واتصالات IP
- استكشاف أخطاء خدمة IP الهاتفية من Cisco وإصلاحها
- الدعم التقني والمستندات - Cisco Systems

