

带有 IVR 的 VoIP

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简介

本文显示您如何配置和排除故障在一个VoIP网络的基本交互语音应答(IVR)用网关。IVR是描述提供信息以在电话线的录音消息的形式以回应用户输入以所说的话或双音多频发信号的系统的此术语用于(更加普通的形式)。示例包括允许您检查您的从所有电话和自动化的股票行情系统的平衡的内存段。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 在路由器运行的Cisco IOS软件版本12.1(1)。

本文档中的信息都是基于特定实验室环境中的设备创建的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您是在真实网络上操作，请确保您在使用任何命令前已经了解其潜在影响。

规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

配置

本部分提供有关如何配置本文档所述功能的信息。

注意：有关本文档所用命令的详细信息，请使用[命令查找工具](#)（[仅限注册用户](#)）。

网络图

本文档使用此图中所示的网络设置：

使用clid_authen_collect内部脚本，Raleigh5300在此网络图中运行IVR。此脚本查看呼入呼叫的自动数字标识(ANI)。这帮助接收设备确定主叫方编号和拨号号码识别服务(DNIS)和编号呼叫到达特定设备的呼叫。然后它设法匹配这些以用户名和密码。如果脚本不能配比到用户名和密码，在这种情况下，使用语音提示获得帐号和密码(经常指“PIN”)。在呼叫方输入用户名和密码和验证后，脚本提示输入目标号码呼叫。

此处IVR配置是一个非常基本配置。在真实的环境，用户名和密码在远程验证拨入用户服务(RADIUS)服务器存储。验证、授权和统计(AAA)认证登录H.323指向RADIUS，和不本地。这用aaa authentication login h323 group radius命令完成在运行IVR路由器的配置里。

在dial-peer voice 1命令下，IVR应用程序配置。在这种情况下，它指向clid_authen_collect脚本。有IVR的多种配置在软件里。输入exec命令[show call application voice \[summary\]](#)发现此。参考[配置思科接入平台的交互语音应答](#)欲知更多信息。

配置

本文档使用以下配置：

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

Raleigh 5300A

```
Raleigh5300A#show run Building configuration... Current
configuration: !! Last configuration change at 00:42:21
UTC Tue Mar 28 2000 ! NVRAM config last updated at
00:42:22 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 AAA new-
model AAA authentication login default none AAA
authentication login h323 local enable secret password
!--- Choose a strong password with at least one capital
letter, !--- one number, and one special character. !
username 1234 password 0 5678 spe 1/0 1/7 firmware
location system:/ucode/mica_port_firmware !! 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 application clid_authen_collect incoming called-
number 4085556400 answer-address 9195552001 destination-
pattern 919#9195552... port 0:D prefix 919 ! dial-peer
voice 2 voip destination-pattern 4085556400 tech-prefix
408# session target ras ! num-exp 6... 4085556... !---
This command is used to configure a Cisco IOS® gateway
to route the calls coming to a main direct inward dial
(DID) number to an AutoAttendant. 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 ! ntp clock-period 17179842 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 17179856 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
17179924 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
clock-period 17179867 ntp server 172.16.110.10 end

```

验证

本部分提供的信息有助于确认配置是否正常运行。

[命令输出解释程序](#) ([仅限注册用户](#)) (OIT) 支持某些 **show** 命令。使用 OIT 可查看对 **show** 命令输出的分析。

- [show gateway](#) -显示当前网关状态。
- [show gatekeeper calls](#) -显示每持续的呼叫状况网守知道。
- [show gatekeeper gw-type-prefix](#) -显示网关技术前缀表。
- [show flash](#) -显示闪存内容。
- [show call application voice clid_authen_collect](#) -显示配置语音应用的列表。
- [show gatekeeper endpoints](#) -显示所有已注册终端状况网守的。
- [show log](#) -，当调试指令启用时，显示从操作日志缓冲区的debug输出。
- [show call active voice \[brief\]](#) -显示所有语音端口的呼叫状态。
- [show debugging](#) -显示调试指令在指定时候启用。

在您输入在本文显示的配置到您的路由器后，请验证网络正确地运行。这些命令和各自输出显示配置的成功实施在本文的。

与IVR的最常见的问题包括：

- 应用程序在普通旧式电话服务dial-peer没有适当地配置。确保流入电话呼叫匹配与应用程序的POTS拨号对等。POTS拨号对等匹配第一dial-peer用matching port命令在配置里或，如果被叫号码匹配dial-peer子命令incoming called-number <number>。检查应用程序通过[show call application voice \[summary\]](#)命令实际上存在。确保应用程序名称不包含语法错误。
- 确保直接拨入在dial-peer pots没有配置。
- 保证适当的音频文件装载到闪存。
- 保证与用户名和密码的验证适当地配置。

[Raleigh5300A 输出](#)

```
Raleigh5300A#show gateway 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 flash System flash directory: File Length Name/status 1 7084904 c5300-is-mz.121-1.bin 2 23186 enter_account.au 3 38087 enter_destination.au 4 20414 enter_pin.au 5 17513 auth_failed.au [7184432 bytes used, 1204176 available, 8388608 total] 8192K bytes of processor board System flash (Read/Write) Raleigh5300A#show call application voice clid_authen_collect Idle call list has 1 calls on it. Application clid_authen_collect The script is compiled into the image It has 0 calls active. The TCL Script is: ----- # clid_authen_collect.tcl #----- # September 1998, David Ramsthaller # # Copyright (c) 1998, 1999 by cisco Systems, Inc. # All rights reserved. #----- # Mimic the clid_authen_collect script in the SP1.0 release. # # It authenticates using (ani, dnis) for (account, password). If # that fails, it collects account and pin number, then authenticates # using (account, pin). # # If authentication passes, it collects the destination number and # places the call. # # The main routine is at the bottom. Start reading the script there. # proc do_get_account {} { global state global account set prompt(url) flash:enter_account.au set prompt(interrupt) true set prompt(abortKey) * set prompt(terminationKey) # set patterns(account) .+ set event [promptAndCollect prompt info patterns ] if {$sevent == "collect success"} { set state get_pin set account $info(digits) return 0 } if {$sevent == "collect aborted"} { set state get_account return 0 } if {$sevent == "collect fail" || $sevent == "collect timeout"} { set state get_account return 0 } set state end return 0 } proc do_get_pin {} { global state global pin set prompt(url) flash:enter_pin.au set prompt(interrupt) true set prompt(abortKey) * set prompt(terminationKey) # set patterns(account) .+ set event [promptAndCollect prompt info patterns ] if {$sevent == "collect success"} { set state authenticate set pin $info(digits) return 0 } if {$sevent == "collect aborted"} { set state get_account return 0 } if {$sevent == "collect fail" || $sevent == "collect timeout"} { # timeout if {$info(code) == 102} { set state get_pin return 0 } # invalid number if {$info(code) == 28} { set state get_pin return 0 } } set state end return 0 } proc do_authenticate {} { global state global pin global account set event [authenticate $account $pin info] if { $sevent == "authenticated" } { set state authen_pass return 0 } if {$sevent == "authentication failed"} { set state authen_fail return 0 } set state end return 0 } proc do_get_dest {} { global state global destination set prompt(url) flash:enter_destination.au set prompt(interrupt) true set prompt(abortKey) * set prompt(terminationKey) # set prompt(dialPlan) true set event [promptAndCollect prompt info ] if {$sevent == "collect success"} { set state place_call set destination $info(digits) return 0 } if {$sevent == "collect aborted"} { set state get_dest return 0 } if {$sevent == "collect fail" || $sevent == "collect timeout"} { set state get_dest return 0 } set state end return 0 } proc do_authen_pass {} { global state global destination set dnislen [string len [dnis]] if { [did] && $dnislen } { set destination [dnis] set state place_call } else { set state get_dest } return 0 } proc do_place_call {} { global state global destination set event [placeCall $destination callInfo info] if {$sevent == "active"} { set state active return 0 } if {$sevent == "call fail"} { set state place_fail return 0 } set state end return 0 } proc do_active_notimer {} { global state set event [waitEvent] while { $sevent == "digit" } { set event [waitEvent] } set state end return 0 } proc do_active_last_timer {} { global state set event [startTimer [creditTimeLeft] info] while { $sevent == "digit" } { set event [startTimer $info(timeLeft) info] } if { $sevent == "timeout" } {
```

```

clearOutgoingLeg retInfo set state out_of_time } else { set state end } return 0 } proc
do_active_timer {} { global state if { [creditTimeLeft] < 10 } { do_active_last_timer return 0 }
set delay [expr [creditTimeLeft] - 10] set event [startTimer $delay info] while { $event ==
"digit" } { set event [startTimer $info(timeLeft) info] } if { $event == "timeout" } {
insertMessage flash:beep.au retInfo do_active_last_timer } else { set state end } return 0 }
proc do_active {} { global state if { ( [creditTimeLeft] == "unlimited") || ([creditTimeLeft] ==
"uninitialized") } { do_active_notimer } else { do_active_timer } return 0 } proc do_out_of_time
{} { global state set prompt(url) flash:out_of_time.au set prompt(playComplete) true set event
[promptAndCollect prompt info ] set state end return 0 } proc do_authen_fail {} { global state
set prompt(url) flash:auth_failed.au set prompt(playComplete) true set event [promptAndCollect
prompt info ] set state end return 0 } proc do_place_fail {} { global state playFailureTone 5
retInfo set state end return 0 } #----- # And here is the main
loop # acceptCall set event [authenticate [ani] [dnis] info] if {$event != "authenticated"} {
set state get_account } else { set state authen_pass } while {$state != "end"} { puts
"cid([callID]) running state $state" if {$state == "get_account"} { do_get_account } elseif
{$state == "get_pin"} { do_get_pin } elseif {$state == "authenticate"} { do_authenticate }
elseif {$state == "get_dest"} { do_get_dest } elseif {$state == "place_call"} { do_place_call }
elseif {$state == "active"} { do_active } elseif {$state == "authen_fail"} { do_authen_fail }
elseif {$state == "authen_pass"} { do_authen_pass } elseif {$state == "place_fail"} {
do_place_fail } elseif {$state == "out_of_time"} { do_out_of_time } else { break } }

```

Raleigh路由器有一些调试enabled命令。show debug命令显示此：

```

Raleigh5300A#show debug General OS: AAA Authentication debugging is on 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 AAA: voip AAA debugging is on voip: voip
ccAPI function enter/exit debugging is on ivr: ivr state transitions debugging is on

```

假设，呼叫被做，当启用与显示时的调试。这是发生在这样呼叫的输出：

```

Raleigh5300A#show log Syslog logging: enabled (0 messages dropped, 0 flushes, 0 overruns)
Console logging: level debugging, 5422 messages logged Monitor logging: level debugging, 0
messages logged Buffer logging: level debugging, 5422 messages logged Trap logging: level
informational, 230 message lines logged Log Buffer (50000 bytes): Mar 28 00:44:50.741:
RASlib::ras_sendto: msg length 76 from 172.16.120.2:49831 to 172.16.120.1:1719 Mar 28
00:44:50.741: RASLib::RASSendRRQ: RRQ (seq# 12164) sent to 172.16.120.1 Mar 28 00:44:50.745:
RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.120.1:1719 Mar 28
00:44:50.745: RASLib::RASRecvData: RCF (seq# 12164) rcvd from [172.16.120.1:1719] on sock
[0x6179E6A4] Mar 28 00:45:18.433: ISDN Se0:23: RX <- SETUP pd = 8 callref = 0x02 Mar 28
00:45:18.433: Bearer Capability i = 0x8090A2 Mar 28 00:45:18.433: Channel ID i = 0xA98393 Mar 28
00:45:18.433: Calling Party Number i = 0x2180, '9195552010', Plan:ISDN, Type:National Mar 28
00:45:18.433: Called Party Number i = 0xA1, '4085556400', Plan:ISDN, Type:National Mar 28
00:45:18.437: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0x8002 Mar 28 00:45:18.437: Channel
ID i = 0xA98393 Mar 28 00:45:18.437: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0x8002 Mar 28
00:45:18.437: cc_api_call_setup_ind (vdbPtr=0x61B9ADAC, callInfo={called=4085556400,
calling=9195552010, fdest=0 peer_tag=1}, callID=0x61A088C4) Mar 28 00:45:18.441:
start_h323_accounting: Mar 28 00:45:18.441: start_h323_ccapi_accounting: Error: Null userp Mar
28 00:45:18.441: cc_process_call_setup_ind (event=0x61BB59E8) handed call to app
"clid_authen_collect" Mar 28 00:45:18.441: App clid_authen_collect: Handling callID 52 Mar 28
00:45:18.441: callingNumber=9195552010, calledNumber=4085556400, redirectNumber= Mar 28
00:45:18.441: accountNumber=, finalDestFlag=0, guid=1acb.27d8.98f4.006b.0000.0000.2071.a5e8 Mar
28 00:45:18.441: peer_tag=1 Mar 28 00:45:18.441: ccCallHandoff (callID=0x34) Mar 28
00:45:18.445: /acceptCall/ Mar 28 00:45:18.445: Accepting CallID=52 Mar 28 00:45:18.445:
ccCallSetupAck (callID=0x34) Mar 28 00:45:18.445: ccCallProceeding (callID=0x34, prog_ind=0x0)
Mar 28 00:45:18.445: ccCallConnect (callID=0x34) Mar 28 00:45:18.445: /ani/ Mar 28
00:45:18.445: /dnis/ Mar 28 00:45:18.445: [authenticate] Mar 28 00:45:18.445: authenticate Mar
28 00:45:18.445: account=9195552010 Mar 28 00:45:18.445: password=4085556400 Mar 28
00:45:18.445: start_authentication service: ivr tcl authentication Mar 28 00:45:18.445: AAA:
parse name= idb type=-1 tty=-1 Mar 28 00:45:18.445: AAA/MEMORY: create_user (0x61EBED14)
user='9195552010' ruser='' port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0 Mar 28
00:45:18.445: AAA/AUTHEN/START (2776990538): port='' list='h323' action=LOGIN service=LOGIN Mar
28 00:45:18.445: AAA/AUTHEN/START (2776990538): found list h323 Mar 28 00:45:18.445:
AAA/AUTHEN/START (2776990538): Method=LOCAL Mar 28 00:45:18.445: AAA/AUTHEN (2776990538): User
not found, end of method list Mar 28 00:45:18.445: AAA/AUTHEN (2776990538): status = FAIL Mar 28
00:45:18.445: voip_authenticate: Authentication server ERROR: server MSG: Mar 28 00:45:18.445:

```

AAA/MEMORY: free_user (0x61EBED14) user='9195552010' ruser='' port='' rem_addr=''
authen_type=ASCII service=LOGIN priv=0 Mar 28 00:45:18.449: ISDN Se0:23: TX -> CONNECT pd = 8
callref = 0x8002 Mar 28 00:45:18.449: cid(52) ta_get_event returning authentication failed Mar
28 00:45:18.449: :[callID] Mar 28 00:45:18.449: :/puts/ Mar 28 00:45:18.449: cid(52) running
state get_account Mar 28 00:45:18.453: TA_PromptCmd. CallID=52 Mar 28 00:45:18.453: ccCallApp
(callID=0x34) Mar 28 00:45:18.453: prompt and collect app got callID 52 Mar 28 00:45:18.453:
Playing prompt enter_account.au Mar 28 00:45:18.453: Prompt interrupt enabled Mar 28
00:45:18.453: No return on play complete Mar 28 00:45:18.453: Not matching against dial plan Mar
28 00:45:18.453: Abort key is * Termination key is # Mar 28 00:45:18.453: Matching against 1
patterns. Mar 28 00:45:18.453: Pattern .+ Mar 28 00:45:18.453: ccCallSetContext (callID=0x34,
context=0x61A3AAA4) Mar 28 00:45:18.453: ms_create() Iniz ply_timer Mar 28 00:45:18.453:
ccAssociateStream (callID=0x34 coder=5 vad=0 recordFunc=0x0 evQ=0x61BE4420) Mar 28 00:45:18.453:
cc_API_call_associated (vdbPtr=0x61B9ADAC, callID=0x34, disp=0) Mar 28 00:45:18.453:
ms_associateDone(): xmitFunc = playFunc 0x60B8B358 Mar 28 00:45:18.453: ms_associateDone():
CallID 52 First Buf Play at 6d07h of enter_account.au Mar 28 00:45:18.453: ms_associateDone()
6d07h, Tstart(ply: iSndDly 1000, pSnce 0) Mar 28 00:45:18.545: ISDN Se0:23: RX <- CONNECT_ACK pd
= 8 callref = 0x02 Mar 28 00:45:18.545: ISDN Se0:23: CALL_PROGRESS: CALL_CONNECTED call id 0x1B,
bchan -1, dsl 0 Mar 28 00:45:19.453: \$ \$sms_process() >>ms_start_play() Mar 28 00:45:19.453:
ms_start_play() 6d07h mgdTstop(ply) Mar 28 00:45:20.241: cc_api_call_digit_begin
(vdbPtr=0x61B9ADAC, callID=0x34, digit=1, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar
28 00:45:20.245: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:20.353:
cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=1, duration=160) digit=1 Mar 28
00:45:20.353: ms_stop_play() call 52 mgdTstop at 6d07h Mar 28 00:45:20.353: ms_stop_play(): Play
Stopped at 6d07h Mar 28 00:45:20.353: ccDisassociateStream (callID=0x34) Mar 28 00:45:20.521:
cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=2, flags=0x1,
timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:20.525: pcapp CallID 52 event
CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:20.593: cc_api_call_digit (vdbPtr=0x61B9ADAC,
callID=0x34, digit=2, duration=120) digit=2 Mar 28 00:45:20.781: cc_api_call_digit_begin
(vdbPtr=0x61B9ADAC, callID=0x34, digit=3, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar
28 00:45:20.785: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:20.853:
cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=3, duration=120) digit=3 Mar 28
00:45:21.101: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=4, flags=0x1,
timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:21.105: pcapp CallID 52 event
CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:21.193: cc_api_call_digit (vdbPtr=0x61B9ADAC,
callID=0x34, digit=4, duration=140) digit=4 Mar 28 00:45:21.553: cc_api_call_digit_begin
(vdbPtr=0x61B9ADAC, callID=0x34, digit=#, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar
28 00:45:21.553: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:21.673:
cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=#, duration=170) digit=# Mar 28
00:45:21.673: pcapp CallID 52 returning PCAPP_MATCHED. string=1234 Mar 28 00:45:21.673:
ccCallAppReturn (callID=0x34) Mar 28 00:45:21.673: ms_delete() invoking ms_stop_play() for just
in case... Mar 28 00:45:21.673: ms_stop_play() call 52 mgdTstop at 6d07h Mar 28 00:45:21.673:
ms_delete(): mc_delete_dynamicS() mc_delete_read() Mar 28 00:45:21.673: cid(52) ta_get_event
returning collect success Mar 28 00:45:21.677: :[callID] Mar 28 00:45:21.677: :/puts/ Mar 28
00:45:21.677: cid(52) running state get_pin Mar 28 00:45:21.677: ta_PromptCmd. CallID=52 Mar 28
00:45:21.677: ccCallApp (callID=0x34) Mar 28 00:45:21.681: prompt and collect app got callID 52
Mar 28 00:45:21.681: Playing prompt enter_pin.au Mar 28 00:45:21.681: Prompt interrupt enabled
Mar 28 00:45:21.681: No return on play complete Mar 28 00:45:21.681: Not matching against dial
plan Mar 28 00:45:21.681: Abort key is * Termination key is # Mar 28 00:45:21.681: Matching
against 1 patterns. Mar 28 00:45:21.681: Pattern .+ Mar 28 00:45:21.681: ccCallSetContext
(callID=0x34, context=0x61A986B0) Mar 28 00:45:21.681: ms_create() Iniz ply_timer Mar 28
00:45:21.681: ccAssociateStream (callID=0x34 coder=5 vad=0 recordFunc=0x0 evQ=0x61BE4420) Mar 28
00:45:21.681: cc_api_call_associated (vdbPtr=0x61B9ADAC, callID=0x34, disp=0) Mar 28
00:45:21.681: ms_associateDone(): xmitFunc = playFunc 0x60B8B358 Mar 28 00:45:21.681:
ms_associateDone(): CallID 52 First Buf Play at 6d07h of enter_pin.au Mar 28 00:45:21.681:
ms_associateDone() 6d07h, Tstart(ply: iSndDly 1000, pSnce 0) Mar 28 00:45:22.681: \$
\$sms_process() >>ms_start_play() Mar 28 00:45:22.681: ms_start_play() 6d07h mgdTstop(ply) Mar 28
00:45:23.433: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=5, flags=0x1,
timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:23.433: pcapp CallID 52 event
CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:23.533: cc_api_call_digit (vdbPtr=0x61B9ADAC,
callID=0x34, digit=5, duration=150) digit=5 Mar 28 00:45:23.533: ms_stop_play() call 52 mgdTstop
at 6d07h Mar 28 00:45:23.533: ms_stop_play(): Play Stopped at 6d07h Mar 28 00:45:23.533:
ccDisassociateStream (callID=0x34) Mar 28 00:45:23.693: cc_api_call_digit_begin
(vdbPtr=0x61B9ADAC, callID=0x34, digit=6, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar
28 00:45:23.693: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:23.793:

cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=6, duration=150) digit=6 Mar 28 00:45:24.041: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=7, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:24.045: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:24.121: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=7, duration=130) digit=7 Mar 28 00:45:24.321: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=8, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:24.325: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:24.421: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=8, duration=150) digit=8 Mar 28 00:45:24.653: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=#, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:24.653: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:24.741: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=#, duration=140) digit=# Mar 28 00:45:24.745: pcapp CallID 52 returning PCAPP_MATCHED. string=5678 Mar 28 00:45:24.745: ccCallAppReturn (callID=0x34) Mar 28 00:45:24.745: ms_delete() invoking ms_stop_play() for just in case... Mar 28 00:45:24.745: ms_stop_play() call 52 mgdTstop at 6d07h Mar 28 00:45:24.745: ms_delete(): mc_delete_dynamicS() mc_delete_read() Mar 28 00:45:24.745: cid(52) ta_get_event returning collect success Mar 28 00:45:24.745: :[callID] Mar 28 00:45:24.745: :/puts/ Mar 28 00:45:24.745: cid(52) running state authenticate Mar 28 00:45:24.749: :[authenticate] Mar 28 00:45:24.749: authenticate Mar 28 00:45:24.749: account=1234 Mar 28 00:45:24.749: password=5678 Mar 28 00:45:24.749: start_authetication service: ivr tcl authentication Mar 28 00:45:24.749: AAA: parse name= idb type=-1 tty=-1 Mar 28 00:45:24.749: AAA/MEMORY: create_user (0x61B0354C) user='1234' ruser='' port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0 Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): port='' list='h323' action=LOGIN service=LOGIN Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): found list h323 Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): Method=LOCAL Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): continue_login (user='1234') Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): Method=LOCAL Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = PASS Mar 28 00:45:24.749: AAA/MEMORY: free_user (0x61B0354C) user='1234' ruser='' port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0 Mar 28 00:45:24.749: cid(52) ta_get_event returning authenticated Mar 28 00:45:24.753: :[callID] Mar 28 00:45:24.753: :/puts/ Mar 28 00:45:24.753: cid(52) running state authen_pass Mar 28 00:45:24.753: :/dnis/ Mar 28 00:45:24.753: :/did/ Mar 28 00:45:24.757: :[callID] Mar 28 00:45:24.757: :/puts/ Mar 28 00:45:24.757: cid(52) running state get_dest Mar 28 00:45:24.757: ta_PromptCmd. CallID=52 Mar 28 00:45:24.757: ccCallApp (callID=0x34) Mar 28 00:45:24.757: prompt and collect app got callID 52 Mar 28 00:45:24.757: Playing prompt enter_destination.au Mar 28 00:45:24.757: Prompt interrupt enabled Mar 28 00:45:24.757: No return on play complete Mar 28 00:45:24.757: Matching against dial plan Mar 28 00:45:24.757: Abort key is * Termination key is # Mar 28 00:45:24.757: Matching against 0 patterns. Mar 28 00:45:24.757: ccCallSetContext (callID=0x34, context=0x61A3AAA4) Mar 28 00:45:24.761: ms_create() Iniz ply_timer Mar 28 00:45:24.761: ccAssociateStream (callID=0x34 coder=5 vad=0 recordFunc=0x0 evQ=0x61BE4420) Mar 28 00:45:24.761: cc_api_call_associated (vdbPtr=0x61B9ADAC, callID=0x34, disp=0) Mar 28 00:45:24.761: ms_associateDone(): xmitFunc = playFunc 0x60B8B358 Mar 28 00:45:24.761: ms_associateDone(): CallID 52 First Buf Play at 6d07h of enter_destination.au Mar 28 00:45:24.761: ms_associateDone() 6d07h, Tstart(ply: iSndDly 1000, pSnce 0) Mar 28 00:45:25.761: \$ \$ms_process() >>ms_start_play() Mar 28 00:45:25.761: ms_start_play() 6d07h mgdTstop(ply) Mar 28 00:45:29.393: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=6, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:29.393: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:29.573: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=6, duration=230) digit=6 Mar 28 00:45:29.573: ms_stop_play() call 52 mgdTstop at 6d07h Mar 28 00:45:29.573: ms_stop_play(): Play Stopped at 6d07h Mar 28 00:45:29.573: ccDisassociateStream (callID=0x34) Mar 28 00:45:29.801: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=4, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:29.805: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:29.921: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=4, duration=170) digit=4 Mar 28 00:45:30.181: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=0, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:30.185: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:30.281: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=0, duration=150) digit=0 Mar 28 00:45:30.533: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC, callID=0x34, digit=0, flags=0x1, timestamp=0xDB1154A6, expiration=0x0) Mar 28 00:45:30.533: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored Mar 28 00:45:30.673: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=0, duration=190) digit=0 Mar 28 00:45:30.673: pcapp CallID 52 returning PCAPP_MATCHED. string=6400 Mar 28 00:45:30.673: ccCallAppReturn (callID=0x34) Mar 28 00:45:30.673: ms_delete() invoking ms_stop_play() for just in case... Mar 28 00:45:30.673: ms_stop_play() call 52 mgdTstop at 6d07h Mar 28 00:45:30.673:

ms_delete(): mc_delete_dynamicS() mc_delete_read() Mar 28 00:45:30.673: cid(52) ta_get_event
returning collect success Mar 28 00:45:30.677: :[callID] Mar 28 00:45:30.677: :/puts/ Mar 28
00:45:30.677: cid(52) running state place_call Mar 28 00:45:30.677: :[placeCall] Mar 28
00:45:30.677: Placing call for callID 52 to destination=6400 Mar 28 00:45:30.677: ccCallApp
(callID=0x34) Mar 28 00:45:30.681: placecall CallID 52 got event CC_EV_CALL_HANDOFF Mar 28
00:45:30.681: ccCallSetContext (callID=0x34, context=0x61EBED14) Mar 28 00:45:30.681: Matched
peers(1) Mar 28 00:45:30.681: placecall pc_setupPeer cid(52), destPat(4085556400), matched(10),
prefix(), peer(61C088AC) Mar 28 00:45:30.681: ccCallSetupRequest (Inbound call = 0x34, outbound
peer =2, dest=, params=0x61A650F8 mode=0, *callID=0x61BC6EF0) Mar 28 00:45:30.681:
callingNumber=9195552010, calledNumber=4085556400, redirectNumber= Mar 28 00:45:30.681:
accountNumber=1234, finalDestFlag=0, guid=1acb.27d8.98f4.006b.0000.0000.2071.a5e8 Mar 28
00:45:30.681: peer_tag=2 Mar 28 00:45:30.681: ccIFCallSetupRequest: (vdbPtr=0x6174EC64, dest=,
callParams={called=4085556400, calling=9195552010, fdest=0, voice_peer_tag=2}, mode=0x0) Mar 28
00:45:30.681: ccCallSetContext (callID=0x35, context=0x61C72B0C) Mar 28 00:45:30.681: placecall
cid(52) state change PC_CS_INIT to PC_CS_CALL_SETTING Mar 28 00:45:30.681: RASlib::ras_sendto:
msg length 115 from 172.16.120.2:49831 to 172.16.120.1:1719 Mar 28 00:45:30.685:
RASLib::RASSendARQ: ARQ (seq# 12165) sent to 172.16.120.1 Mar 28 00:45:30.685:
start_h323_accounting: Mar 28 00:45:30.685: start_h323_ccapi_accounting: Error: Null userp Mar
28 00:45:30.689: RASLib::RASRecvData: successfully rcvd message of length 7 from
172.16.120.1:1719 Mar 28 00:45:30.689: RASLib::RASRecvData: RIP (seq# 12165) rcvd from
[172.16.120.1:1719] on sock[6179E6A4] Mar 28 00:45:30.705: RASLib::RASRecvData: successfully
rcvd message of length 24 from 172.16.120.1:1719 Mar 28 00:45:30.705: RASLib::RASRecvData: ACF
(seq# 12165) rcvd from [172.16.120.1:1719] on sock [0x6179E6A4] Mar 28 00:45:31.713:
cc_api_call_alert(vdbPtr=0x6174EC64, callID=0x35, prog_ind=0x8, sig_ind=0x1) Mar 28
00:45:31.713: placecall CallID 53 got event CC_EV_CALL_ALERT Mar 28 00:45:31.713:
ccConferenceCreate (confID=0x61BC6F40, callID1=0x34, callID2=0x35, tag=0x0) Mar 28 00:45:31.713:
cc_api_bridge_done (confID=0x14, srcIF=0x6174EC64, srcCallID=0x35, dstCallID=0x34,
disposition=0, tag=0x0) Mar 28 00:45:31.713: placecall cid(52) state change PC_CS_CALL_SETTING
to PC_CS_CONFERENCING_ALERT Mar 28 00:45:31.713: cc_api_bridge_done (confID=0x14,
srcIF=0x61B9ADAC, srcCallID=0x34, dstCallID=0x35, disposition=0, tag=0x0) Mar 28 00:45:31.713:
cc_api_caps_ind (dstVdbPtr=0x6174EC64, dstCallId=0x35, srcCallId=0x34, caps={codec=0xEBF7,
fax_rate=0xFF, vad=0x3, modem=0x3 codec_bytes=48, signal_type=2}) Mar 28 00:45:31.717: placecall
CallID 52 got event CC_EV_CONF_CREATE_DONE Mar 28 00:45:31.717: placecall cid(52) state change
PC_CS_CONFERENCING_ALERT to PC_CS_CONFERENCE_ALERT Mar 28 00:45:32.321: cc_api_caps_ind
(dstVdbPtr=0x61B9ADAC, dstCallId=0x34, srcCallId=0x35, caps={codec=0x4, fax_rate=0x2, vad=0x2,
modem=0x1 codec_bytes=20, signal_type=0}) Mar 28 00:45:32.321: cc_api_caps_ack
(dstVdbPtr=0x61B9ADAC, dstCallId=0x34, srcCallId=0x35, caps={codec=0x4, fax_rate=0x2, vad=0x2,
modem=0x1 codec_bytes=20, signal_type=0}) Mar 28 00:45:32.325: cc_api_caps_ack
(dstVdbPtr=0x6174EC64, dstCallId=0x35, srcCallId=0x34, caps={codec=0x4, fax_rate=0x2, vad=0x2,
modem=0x1 codec_bytes=20, signal_type=0}) Mar 28 00:45:35.745: RASlib::ras_sendto: msg length 76
from 172.16.120.2:49831 to 172.16.120.1:1719 Mar 28 00:45:35.745: RASLib::RASSendRRQ: RRQ (seq#
12166) sent to 172.16.120.1 Mar 28 00:45:35.749: RASLib::RASRecvData: successfully rcvd message
of length 52 from 172.16.120.1:1719 Mar 28 00:45:35.749: RASLib::RASRecvData: RCF (seq# 12166)
rcvd from [172.16.120.1:1719] on sock [0x6179E6A4] Mar 28 00:45:40.673: cc_api_call_digit
(vdbPtr=0x61B9ADAC, callID=0x34, digit=T, duration=0) Mar 28 00:45:40.673: placecall CallID 52
got event CC_EV_CALL_DIGIT Mar 28 00:45:43.845: cc_api_call_connected(vdbPtr=0x6174EC64,
callID=0x35) Mar 28 00:45:43.845: placecall CallID 53 got event CC_EV_CALL_CONNECTED Mar 28
00:45:43.845: placecall CallID 52 returning PLACECALL_ACTIVE. Mar 28 00:45:43.845:
ccCallAppReturn (callID=0x34) Mar 28 00:45:43.845: pCall(0x61B00C24), settlement_credit_time=0
Mar 28 00:45:43.845: ccCallSetContext (callID=0x35, context=0x61B00C24) Mar 28 00:45:43.845:
cid(52) ta_get_event returning active Mar 28 00:45:43.845: :[callID] Mar 28 00:45:43.845:
:/puts/ Mar 28 00:45:43.845: cid(52) running state active Mar 28 00:45:43.849:
:/creditTimeLeft/ Mar 28 00:45:43.849: :[waitEvent] Mar 28 00:45:43.849: Waiting Event for
callID 52 Mar 28 00:45:51.269: cc_api_call_disconnected(vdbPtr=0x6174EC64, callID=0x35,
cause=0x10) Mar 28 00:45:51.273: ccConferenceDestroy (confID=0x14, tag=0x0) Mar 28 00:45:51.273:
cc_api_bridge_drop_done (confID=0x14, srcIF=0x6174EC64, srcCallID=0x35, dstCallID=0x34,
disposition=0 tag=0x0) Mar 28 00:45:51.273: cc_api_bridge_drop_done (confID=0x14,
srcIF=0x61B9ADAC, srcCallID=0x34, dstCallID=0x35, disposition=0 tag=0x0) Mar 28 00:45:51.273:
ccCallDisconnect (callID=0x35, cause=0x10 tag=0x0) Mar 28 00:45:51.273: RASlib::ras_sendto: msg
length 76 from 172.16.120.2:49831 to 172.16.120.1:1719 Mar 28 00:45:51.273: RASLib::RASSendDRQ:
DRQ (seq# 12167) sent to 172.16.120.1 Mar 28 00:45:51.277: RASLib::RASRecvData: successfully
rcvd message of length 3 from 172.16.120.1:1719 Mar 28 00:45:51.277: RASLib::RASRecvData: DCF
(seq# 12167) rcvd from [172.16.120.1:1719] on sock [0x6179E6A4] Mar 28 00:45:51.277:
stop_h323_ccapi_accounting: Error: Null userp Mar 28 00:45:51.281:

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cc_api_call_disconnect_done(vdbPtr=0x6174EC64, callID=0x35, disp=0, tag=0x0) Mar 28
00:45:51.281: cid(53) outgoing disconnected Mar 28 00:45:51.281: cid(52) ta_get_event returning
outgoing disconnected Mar 28 00:45:51.281: ta_WaitEventCmd(): ta_get_event(event [outgoing
disconnected]) Mar 28 00:45:51.281: TCL script eval for callID 52 completed. code=OK Mar 28
00:45:51.281: ccCallDisconnect (callID=0x34, cause=0x10 tag=0x0) Mar 28 00:45:51.297:
stop_h323_ccapi_accounting: Error: Null userp Mar 28 00:45:51.297:
cc_api_call_disconnect_done(vdbPtr=0x61B9ADAC, callID=0x34, disp=0, tag=0x0) Mar 28
00:45:51.305: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 9195552010 , call
lasted 32 seconds Mar 28 00:45:51.305: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x8002 Mar
28 00:45:51.305: Cause i = 0x8090 - Normal call clearing Mar 28 00:45:51.353: ISDN Se0:23: RX <-
RELEASE pd = 8 callref = 0x02 Mar 28 00:45:51.353: ISDN Se0:23: TX -> RELEASE_COMP pd = 8
callref = 0x8002 Mar 28 00:45:51.365: %LINK-3-UPDOWN: Interface Serial0:18, changed state to
down Mar 28 00:46:20.748: RASLib::ras_sendto: msg length 76 from 172.16.120.2:49831 to
172.16.120.1:1719 Mar 28 00:46:20.748: RASLib::RASSendRRQ: RRQ (seq# 12168) sent to 172.16.120.1
Mar 28 00:46:20.752: RASLib::RASRecvData: successfully rcvd message of length 52 from
172.16.120.1:1719 Mar 28 00:46:20.752: RASLib::RASRecvData: RCF (seq# 12168) rcvd from
[172.16.120.1:1719] on sock [0x6179E6A4] Raleigh5300A# Raleigh5300A# Raleigh5300A#show call
active voice GENERIC: SetupTime=54456184 ms Index=1 PeerAddress=9195552010 PeerSubAddress=
PeerId=1 PeerIfIndex=56 LogicalIfIndex=26 ConnectTime=54456185 CallDuration=00:00:44 CallState=4
CallOrigin=2 ChargedUnits=0 InfoType=2 TransmitPackets=1475 TransmitBytes=75244
ReceivePackets=318 ReceiveBytes=10176 TELE: ConnectionId=[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]
TxDuration=29800 ms VoiceTxDuration=6360 ms FaxTxDuration=0 ms CoderTypeRate=g729r8 NoiseLevel=-
55 ACOMLevel=0 OutSignalLevel=-42 InSignalLevel=-56 InfoActivity=2 ERLLevel=15 SessionTarget=
ImgPages=0 GENERIC: SetupTime=54457502 ms Index=1 PeerAddress=4085556400 PeerSubAddress=
PeerId=2 PeerIfIndex=57 LogicalIfIndex=0 ConnectTime=54458807 CallDuration=00:00:18 CallState=4
CallOrigin=1 ChargedUnits=0 InfoType=2 TransmitPackets=318 TransmitBytes=6360
ReceivePackets=1121 ReceiveBytes=22420 VOIP: ConnectionId[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]
RemoteIPAddress=172.16.110.2 RemoteUDPPort=17942 RoundTripDelay=2 ms SelectedQoS=best-effort
tx_DtmfRelay=inband-voice SessionProtocol=cisco SessionTarget=ras OnTimeRvPlayout=15900
GapFillWithSilence=0 ms GapFillWithPrediction=0 ms GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms HiWaterPlayOutDelay=70 ms LoWaterPlayOutDelay=50 ms ReceiveDelay=50
ms LostPackets=0 EarlyPackets=0 LatePackets=0 VAD = enabled CoderTypeRate=g729r8 CodecBytes=20
SignalingType=cas 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 dlci 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 6F : 54456184hs.1 +1
pid:1 Answer 9195552010 active dur 00:00:40 tx:1279/73076 rx:172/5504 Tele 0:D:54:
tx:25890/3440/0ms g729r8 noise:-55 acom:0 i/o:-55/-41 dBm 6F : 54457502hs.1 +1305 pid:2
Originate 4085556400 active dur 00:00:14 tx:172/3440 rx:925/18500 IP 172.16.110.2:17942 rtt:2ms
pl:15900/0ms lost:0/0/0 delay:50/50/70ms g729r8
```

SanJose5300A 输出

```
SanJose5300A#show gateway 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, 1787 messages logged Monitor
logging: level debugging, 0 messages logged Buffer logging: level debugging, 1787 messages
logged Trap logging: level informational, 97 message lines logged Log Buffer (50000 bytes): Mar
28 00:45:25.585: RASLib::ras_sendto: msg length 74 from 172.16.110.2:52521 to 172.16.110.1:1719
Mar 28 00:45:25.585: RASLib::RASSendRRQ: RRQ (seq# 12137) sent to 172.16.110.1 Mar 28
00:45:25.589: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719
Mar 28 00:45:25.589: RASLib::RASRecvData: RCF (seq# 12137) rcvd from [172.16.110.1:1719] on sock
[0x61752218] Mar 28 00:45:30.705: RASLib::ras_sendto: msg length 122 from 172.16.110.2:52521 to
172.16.110.1:1719 Mar 28 00:45:30.705: RASLib::RASSendARQ: ARQ (seq# 12138) sent to 172.16.110.1
Mar 28 00:45:30.709: RASLib::RASRecvData: successfully rcvd message of length 24 from
172.16.110.1:1719 Mar 28 00:45:30.713: RASLib::RASRecvData: ACF (seq# 12138) rcvd from
[172.16.110.1:1719] on sock [0x61752218] Mar 28 00:45:30.713: cc_api_call_setup_ind
(vdbPtr=0x616F8D2C, callInfo={called=408#4085556400, calling=9195552010, fdest=1 peer_tag=2},
callID=0x6199B54C) Mar 28 00:45:30.713: cc_process_call_setup_ind (event=0x619B2D6C) handed call
to app "SESSION" Mar 28 00:45:30.713: sess_appl: ev(23=CC_EV_CALL_SETUP_IND), cid(39), disp(0)
```

Mar 28 00:45:30.713: ccCallSetContext (callID=0x27, context=0x61A60F64) Mar 28 00:45:30.713: ssaCallSetupInd finalDest cllng(9195552010), cllcd(408#4085556400) Mar 28 00:45:30.713: ssaSetupPeer cid(39) peer list: tag(1) called number (408#4085556400) Mar 28 00:45:30.713: ssaSetupPeer cid(39), destPat(408#4085556400), matched(11), prefix(6), peer(61A03B88) Mar 28 00:45:30.713: ccCallProceeding (callID=0x27, prog_ind=0x0) Mar 28 00:45:30.713: ccCallSetupRequest (Inbound call = 0x27, outbound peer =1, dest=, params=0x61A60F78 mode=0, *callID=0x619BB9F0) Mar 28 00:45:30.713: callingNumber=9195552010, calledNumber=408#4085556400, redirectNumber= Mar 28 00:45:30.713: accountNumber=, finalDestFlag=1, guid=1acb.27d8.98f4.006b.0000.0000.2071.a5e8 Mar 28 00:45:30.713: peer_tag=1 Mar 28 00:45:30.713: ccIFCallSetupRequest: (vdbPtr=0x619AC884, dest=, callParams={called=408#4085556400, calling=9195552010, fdest=1, voice_peer_tag=1}, mode=0x0) Mar 28 00:45:30.717: ccCallSetContext (callID=0x28, context=0x6194F3AC) Mar 28 00:45:30.717: cc_api_call_proceeding(vdbPtr=0x619AC884, callID=0x28, prog_ind=0x0) Mar 28 00:45:30.717: sess_appl: ev(20=CC_EV_CALL_PROCEEDING), cid(40), disp(0) Mar 28 00:45:30.717: ssaTraceSct: cid(40)st(1)oldst(0)cfid(-1)csize(0) in(0)fDest(0)-cid2(39)st2(1)oldst2(0) Mar 28 00:45:30.717: ssaIgnore cid(40), st(1),oldst(1), ev(20) Mar 28 00:45:31.701: cc_api_call_alert(vdbPtr=0x619AC884, callID=0x28, prog_ind=0x8, sig_ind=0x1) Mar 28 00:45:31.701: sess_appl: ev(7=CC_EV_CALL_ALERT), cid(40), disp(0) Mar 28 00:45:31.701: ssaTraceSct: cid(40)st(1)oldst(1)cfid(-1)csize(0) in(0)fDest(0)-cid2(39)st2(1)oldst2(0) Mar 28 00:45:31.701: ccCallAlert (callID=0x27, prog_ind=0x8, sig_ind=0x1) Mar 28 00:45:31.701: ccConferenceCreate (confID=0x619BBA38, callID1=0x27, callID2=0x28, tag=0x0) Mar 28 00:45:31.701: cc_api_bridge_done (confID=0x14, srcIF=0x616F8D2C, srcCallID=0x27, dstCallID=0x28, disposition=0, tag=0x0) Mar 28 00:45:31.705: cc_api_bridge_done (confID=0x14, srcIF=0x619AC884, srcCallID=0x28, dstCallID=0x27, disposition=0, tag=0x0) Mar 28 00:45:31.705: cc_api_caps_ind (dstVdbPtr=0x616F8D2C, dstCallId=0x27, srcCallId=0x28,caps={codec=0xEBF7, fax_rate=0xFF, vad=0x3, modem=0x3 codec_bytes=1637472312, signal_type=2}) Mar 28 00:45:31.705: sess_appl: ev(28=CC_EV_CONF_CREATE_DONE), cid(39), disp(0) Mar 28 00:45:31.705: ssaTraceSct: cid(39)st(3)oldst(0)cfid(20)csize(0) in(1)fDest(1)-cid2(40)st2(3)oldst2(1) Mar 28 00:45:32.517: cc_api_caps_ind (dstVdbPtr=0x619AC884, dstCallId=0x28, srcCallId=0x27,caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1 codec_bytes=20, signal_type=0}) Mar 28 00:45:32.517: cc_api_caps_ack (dstVdbPtr=0x619AC884, dstCallId=0x28, srcCallId=0x27, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1 codec_bytes=20, signal_type=0}) Mar 28 00:45:32.521: cc_api_caps_ack (dstVdbPtr=0x616F8D2C, dstCallId=0x27, srcCallId=0x28,caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1 codec_bytes=20, signal_type=0}) Mar 28 00:45:43.834: cc_api_call_connected(vdbPtr=0x619AC884, callID=0x28) Mar 28 00:45:43.834: sess_appl: ev(8=CC_EV_CALL_CONNECTED), cid(40), disp(0) Mar 28 00:45:43.834: ssaTraceSct: cid(40)st(4)oldst(1)cfid(20)csize(0) in(0)fDest(0)-cid2(39)st2(4)oldst2(3) Mar 28 00:45:43.834: ccCallConnect (callID=0x27) Mar 28 00:45:43.834: ssaFlushPeerTagQueue cid(39) peer list: (empty) Mar 28 00:45:51.258: cc_api_call_disconnected(vdbPtr=0x619AC884, callID=0x28, cause=0x10) Mar 28 00:45:51.258: sess_appl: ev(12=CC_EV_CALL_DISCONNECTED), cid(40), disp(0) Mar 28 00:45:51.258: ssaTraceSct: cid(40)st(5)oldst(4)cfid(20)csize(0) in(0)fDest(0)-cid2(39)st2(5)oldst2(3) Mar 28 00:45:51.258: ssa: Disconnected cid(40) state(5) cause(0x10) Mar 28 00:45:51.258: ccConferenceDestroy (confID=0x14, tag=0x0) Mar 28 00:45:51.258: cc_api_bridge_drop_done (confID=0x14, srcIF=0x616F8D2C, srcCallID=0x27, dstCallID=0x28, disposition=0 tag=0x0) Mar 28 00:45:51.258: cc_api_bridge_drop_done (confID=0x14, srcIF=0x619AC884, srcCallID=0x28, dstCallID=0x27, disposition=0 tag=0x0) Mar 28 00:45:51.258: sess_appl: ev(29=CC_EV_CONF_DESTROY_DONE), cid(39), disp(0) Mar 28 00:45:51.258: ssaTraceSct: cid(39)st(6)oldst(3)cfid(20)csize(0) in(1)fDest(1)-cid2(40)st2(6)oldst2(5) Mar 28 00:45:51.258: ccCallDisconnect (callID=0x27, cause=0x10 tag=0x0) Mar 28 00:45:51.258: ccCallDisconnect (callID=0x28, cause=0x10 tag=0x0) Mar 28 00:45:51.262: RASLib::ras_sendto: msg length 76 from 172.16.110.2:52521 to 172.16.110.1:1719 Mar 28 00:45:51.262: RASLib::RASSendDRQ: DRQ (seq# 12139) sent to 172.16.110.1 Mar 28 00:45:51.266: RASLib::RASRecvData: successfully rcvd message of length 3 from 172.16.110.1:1719 Mar 28 00:45:51.266: RASLib::RASRecvData: DCF (seq# 12139) rcvd from [172.16.110.1:1719] on sock [0x61752218] Mar 28 00:45:51.266: cc_api_call_disconnect_done(vdbPtr=0x0, callID=0x27, disp=0, tag=0x0) Mar 28 00:45:51.270: sess_appl: ev(13=CC_EV_CALL_DISCONNECT_DONE), cid(39), disp(0) Mar 28 00:45:51.270: ssaTraceSct: cid(39)st(7)oldst(6)cfid(-1)csize(0) in(1)fDest(1)-cid2(40)st2(7)oldst2(5) Mar 28 00:45:51.278: cc_api_call_disconnect_done(vdbPtr=0x619AC884, callID=0x28, disp=0, tag=0x61726DDC) Mar 28 00:45:51.278: sess_appl: ev(13=CC_EV_CALL_DISCONNECT_DONE), cid(40), disp(0) Mar 28 00:45:51.278: ssaTraceSct: cid(40)st(7)oldst(5)cfid(-1)csize(1)in(0)fDest(0) Mar 28 00:46:10.590: RASLib::ras_sendto: msg length 74 from 172.16.110.2:52521 to 172.16.110.1:1719 Mar 28 00:46:10.590: RASLib::RASSendRRQ: RRQ (seq# 12140) sent to 172.16.110.1 Mar 28 00:46:10.594: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.110.1:1719 Mar 28 00:46:10.594: RASLib::RASRecvData: RCF (seq# 12140) rcvd from [172.16.110.1:1719] on sock

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[0x61752218] Mar 28 00:46:55.595: RASlib::ras_sendto: msg length 74 from 172.16.110.2:52521 to
172.16.110.1:1719 Mar 28 00:46:55.595: RASLib::RASSendRRQ: RRQ (seq# 12141) sent to 172.16.110.1
Mar 28 00:46:55.599: RASLib::RASRecvData: successfully rcvd message of length 52 from
172.16.110.1:1719 Mar 28 00:46:55.599: RASLib::RASRecvData: RCF (seq# 12141) rcvd from
[172.16.110.1:1719] on sock [0x61752218] Mar 28 00:47:40.600: RASlib::ras_sendto: msg length 74
from 172.16.110.2:52521 to 172.16.110.1:1719 Mar 28 00:47:40.600: RASLib::RASSendRRQ: RRQ (seq#
12142) sent to 172.16.110.1 Mar 28 00:47:40.604: RASLib::RASRecvData: successfully rcvd message
of length 52 from 172.16.110.1:1719 Mar 28 00:47:40.604: RASLib::RASRecvData: RCF (seq# 12142)
rcvd from [172.16.110.1:1719] on sock [0x61752218] Mar 28 00:48:25.604: RASlib::ras_sendto: msg
length 74 from 172.16.110.2:52521 to 172.16.110.1:1719 Mar 28 00:48:25.604: RASLib::RASSendRRQ:
RRQ (seq# 12143) sent to 172.16.110.1 Mar 28 00:48:25.608: RASLib::RASRecvData: successfully
rcvd message of length 52 from 172.16.110.1:1719 Mar 28 00:48:25.608: RASLib::RASRecvData: RCF
(seq# 12143) rcvd from [172.16.110.1:1719] on sock [0x61752218] SanJose5300A# SanJose5300A#
SanJose5300A#
SanJose5300A#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 dlci 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 6F : 54422877hs.1
+1301 pid:2 Answer 9195552010 active dur 00:00:38 tx:2122/42440 rx:836/16720 IP
172.16.120.2:16938 rtt:2ms pl:16720/0ms lost:0/0/0 delay:30/30/70ms g729r8 6F : 54422895hs.1
+1283 pid:1 Originate 408#4085556400 active dur 00:00:38 tx:836/-8996 rx:2143/68576 Tele 0:1
(42): tx:50050/42860/0ms g729r8 noise:-66 acom:0 i/o:-40/-71 dBm SanJose5300A#show call active
voice
GENERIC: SetupTime=54422877 ms Index=1 PeerAddress=9195552010 PeerSubAddress= PeerId=2
PeerIfIndex=17 LogicalIfIndex=0 ConnectTime=54424178 CallDuration=00:00:44 CallState=4
CallOrigin=2 ChargedUnits=0 InfoType=2 TransmitPackets=2414 TransmitBytes=48280
ReceivePackets=836 ReceiveBytes=16720 VOIP: ConnectionId[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]
RemoteIPAddress=172.16.120.2 RemoteUDPPort=16938 RoundTripDelay=2 ms SelectedQoS=best-effort
tx_DtmfRelay=inband-voice SessionProtocol=cisco SessionTarget= OnTimeRvPlayOut=16720
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=54422895 ms Index=1 PeerAddress=408#4085556400
PeerSubAddress= PeerId=1 PeerIfIndex=16 LogicalIfIndex=13 ConnectTime=54424178
CallDuration=00:00:44 CallState=4 CallOrigin=1 ChargedUnits=0 InfoType=2 TransmitPackets=836
TransmitBytes=-12488 ReceivePackets=2434 ReceiveBytes=77888 TELE: ConnectionId=[0x1ACB27D8
0x98F4006F 0x0 0x20755AB8] TxDuration=55880 ms VoiceTxDuration=48690 ms FaxTxDuration=0 ms
CoderTypeRate=g729r8 NoiseLevel=-66 ACOMLevel=0 OutSignalLevel=-70 InSignalLevel=-42
InfoActivity=2 ERLLevel=15 SessionTarget= ImgPages=0 SanJose5300A#

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Raleigh3600A 输出

```

Raleigh3640A#show debug H.323 RAS: H.323 RAS Messages debugging is on Raleigh3640A#und all
Raleigh3640A#show gatekeeper endpoint GATEKEEPER ENDPOINT REGISTRATION
===== CallSignalAddr Port RASSignalAddr Port Zone Name Type F -----
-----
RALgk1 VOIP-GW H323-ID: RAL5300A@cisco.com Total number of active registrations = 1
Raleigh3640A#show gatekeeper gw-type-prefix 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, 277 messages logged Monitor logging: level debugging, 0
messages logged Buffer logging: level debugging, 277 messages logged Trap logging: level
informational, 107 message lines logged Log Buffer (50000 bytes): Mar 28 00:44:50.742:
RASLib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:49831 Mar 28
00:44:50.742: RASLib::RASRecvData: RRQ (seq# 12164) rcvd from [172.16.120.2:49831] on sock
[0x60F2F9A0] Mar 28 00:44:50.746: RASlib::ras_sendto: msg length 52 from 172.16.120.1:1719 to
172.16.120.2:49831 Mar 28 00:44:50.746: RASLib::RASSendRCF: RCF (seq# 12164) sent to
172.16.120.2 Mar 28 00:45:30.682: RASLib::RASRecvData: successfully rcvd message of length 115
from 172.16.120.2:49831 Mar 28 00:45:30.686: RASLib::RASRecvData: ARQ (seq# 12165) rcvd from
[172.16.120.2:49831] on sock [0x60F2F9A0] RASLib::parse_arq_nonstd: ARQ Nonstd decode succeeded,
remlen = 0 Mar 28 00:45:30.686: RASlib::ras_sendto: msg length 7 from 172.16.120.1:1719 to
172.16.120.2:49831 Mar 28 00:45:30.686: RASLib::RASSendRIP: RIP (seq# 12165) sent to
172.16.120.2 Mar 28 00:45:30.686: RASLib::RAS_WK_TInit: ipsock [0x60F0ED1C] setup successful Mar

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28 00:45:30.690: RASlib::ras_sendto: msg length 79 from 172.16.120.1:55415 to 172.16.110.1:1719
Mar 28 00:45:30.690: RASlib::RASSendLRQ: LRQ (seq# 28) sent to 172.16.110.1 Mar 28 00:45:30.698:
RASlib::RASRecvData: successfully rcvd message of length 128 from 172.16.110.1:1719 Mar 28
00:45:30.698: RASlib::RASRecvData: LCF (seq# 28) rcvd from [172.16.110.1:1719] on sock
[0x60F0ED1C] RASlib::parse_lcf_nonstd: LCF Nonstd decode succeeded, remlen = 0 Mar 28
00:45:30.702: RASlib::ras_sendto: msg length 24 from 172.16.120.1:1719 to 172.16.120.2:49831 Mar
28 00:45:30.702: RASlib::RASSendACF: ACF (seq# 12165) sent to 172.16.120.2 Mar 28 00:45:35.746:
RASlib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:49831 Mar 28
00:45:35.746: RASlib::RASRecvData: RRQ (seq# 12166) rcvd from [172.16.120.2:49831] on sock
[0x60F2F9A0] Mar 28 00:45:35.750: RASlib::ras_sendto: msg length 52 from 172.16.120.1:1719 to
172.16.120.2:49831 Mar 28 00:45:35.750: RASlib::RASSendRCF: RCF (seq# 12166) sent to
172.16.120.2 Mar 28 00:45:51.274: RASlib::RASRecvData: successfully rcvd message of length 76
from 172.16.120.2:49831 Mar 28 00:45:51.274: RASlib::RASRecvData: DRQ (seq# 12167) rcvd from
[172.16.120.2:49831] on sock [0x60F2F9A0] Mar 28 00:45:51.274: RASlib::ras_sendto: msg length 3
from 172.16.120.1:1719 to 172.16.120.2:49831 Mar 28 00:45:51.278: RASlib::RASSendDCF: DCF (seq#
12167) sent to 172.16.120.2 Mar 28 00:46:20.750: RASlib::RASRecvData: successfully rcvd message
of length 76 from 172.16.120.2:49831 Mar 28 00:46:20.750: RASlib::RASRecvData: RRQ (seq# 12168)
rcvd from [172.16.120.2:49831] on sock [0x60F2F9A0] Mar 28 00:46:20.750: RASlib::ras_sendto: msg
length 52 from 172.16.120.1:1719 to 172.16.120.2:49831 Mar 28 00:46:20.754: RASlib::RASSendRCF:
RCF (seq# 12168) sent to 172.16.120.2 Mar 28 00:47:05.750: RASlib::RASRecvData: successfully
rcvd message of length 76 from 172.16.120.2:49831 Mar 28 00:47:05.754: RASlib::RASRecvData: RRQ
(seq# 12169) rcvd from [172.16.120.2:49831] on sock [0x60F2F9A0] Mar 28 00:47:05.754:
RASlib::ras_sendto: msg length 52 from 172.16.120.1:1719 to 172.16.120.2:49831 Mar 28
00:47:05.758: RASlib::RASSendRCF: RCF (seq# 12169) sent to 172.16.120.2 Mar 28 00:47:50.754:
RASlib::RASRecvData: successfully rcvd message of length 76 from 172.16.120.2:49831 Mar 28
00:47:50.758: RASlib::RASRecvData: RRQ (seq# 12170) rcvd from [172.16.120.2:49831] on sock
[0x60F2F9A0] Mar 28 00:47:50.758: RASlib::ras_sendto: msg length 52 from 172.16.120.1:1719 to
172.16.120.2:49831 Mar 28 00:47:50.758: RASlib::RASSendRCF: RCF (seq# 12170) sent to
172.16.120.2 Raleigh3640A# Raleigh3640A# Raleigh3640A#**show gatekeeper call** Total number of
active calls = 1. GATEKEEPER CALL INFO ===== LocalCallID Age(secs) BW 24-6872 45
64(Kbps) Endpt(s): Alias E.164Addr CallSignalAddr Port RASignalAddr Port src EP: RAL5300A
9195552010 172.16.120.2 1720 172.16.120.2 49831 dst EP: 408#408555640 172.16.110.2 1720
172.16.110.2 1720 Raleigh3640A#

SanJose3640A 输出

SanJose3640A#**show debug** H.323 RAS: H.323 RAS Messages debugging is on SanJose3640A#**show
gatekeeper endpoint** GATEKEEPER ENDPOINT REGISTRATION =====
CallSignalAddr Port RASignalAddr 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-type-
prefix** 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, 1301
messages logged Monitor logging: level debugging, 0 messages logged Buffer logging: level
debugging, 1293 messages logged Trap logging: level informational, 103 message lines logged Log
Buffer (50000 bytes): Mar 28 00:45:25.592: RASlib::RASRecvData: successfully rcvd message of
length 74 from 172.16.110.2:52521 Mar 28 00:45:25.592: RASlib::RASRecvData: RRQ (seq# 12137)
rcvd from [172.16.110.2:52521] on sock [0x60FE9B04] Mar 28 00:45:25.596: RASlib::ras_sendto: msg
length 52 from 172.16.110.1:1719 to 172.16.110.2:52521 Mar 28 00:45:25.596: RASlib::RASSendRCF:
RCF (seq# 12137) sent to 172.16.110.2 Mar 28 00:45:30.692: RASlib::RASRecvData: successfully
rcvd message of length 79 from 172.16.120.1:55415 Mar 28 00:45:30.692: RASlib::RASRecvData: LRQ
(seq# 28) rcvd from [172.16.120.1:55415] on sock [0x60FE9B04] RASlib::parse_lrq_nonstd: LRQ
Nonstd decode succeeded, remlen = 0 Mar 28 00:45:30.696: RASlib::ras_sendto: msg length 128 from
172.16.110.1:1719 to 172.16.120.1:55415 Mar 28 00:45:30.696: RASlib::RASSendLCF: LCF (seq# 28)
sent to 172.16.120.1 Mar 28 00:45:30.712: RASlib::RASRecvData: successfully rcvd message of
length 122 from 172.16.110.2:52521 Mar 28 00:45:30.712: RASlib::RASRecvData: ARQ (seq# 12138)
rcvd from [172.16.110.2:52521] on sock [0x60FE9B04] RASlib::parse_arq_nonstd: ARQ Nonstd decode
succeeded, remlen = 0 Mar 28 00:45:30.716: RASlib::ras_sendto: msg length 24 from
172.16.110.1:1719 to 172.16.110.2:52521 Mar 28 00:45:30.716: RASlib::RASSendACF: ACF (seq#
12138) sent to 172.16.110.2 Mar 28 00:45:51.268: RASlib::RASRecvData: successfully rcvd message
of length 76 from 172.16.110.2:52521 Mar 28 00:45:51.268: RASlib::RASRecvData: DRQ (seq# 12139)
rcvd from [172.16.110.2:52521] on sock [0x60FE9B04] Mar 28 00:45:51.268: RASlib::ras_sendto: msg
length 3 from 172.16.110.1:1719 to 172.16.110.2:52521 Mar 28 00:45:51.268: RASlib::RASSendDCF:

```
DCF (seq# 12139) sent to 172.16.110.2 Mar 28 00:46:10.596: RASLib::RASRecvData: successfully
rcvd message of length 74 from 172.16.110.2:52521 Mar 28 00:46:10.596: RASLib::RASRecvData: RRQ
(seq# 12140) rcvd from [172.16.110.2:52521] on sock [0x60FE9B04] Mar 28 00:46:10.600:
RASLib::ras_sendto: msg length 52 from 172.16.110.1:1719 to 172.16.110.2:52521 Mar 28
00:46:10.600: RASLib::RASSendRCF: RCF (seq# 12140) sent to 172.16.110.2 Mar 28 00:46:55.600:
RASLib::RASRecvData: successfully rcvd message of length 74 from 172.16.110.2:52521 Mar 28
00:46:55.600: RASLib::RASRecvData: RRQ (seq# 12141) rcvd from [172.16.110.2:52521] on sock
[0x60FE9B04] Mar 28 00:46:55.604: RASLib::ras_sendto: msg length 52 from 172.16.110.1:1719 to
172.16.110.2:52521 Mar 28 00:46:55.604: RASLib::RASSendRCF: RCF (seq# 12141) sent to
172.16.110.2 Mar 28 00:47:40.604: RASLib::RASRecvData: successfully rcvd message of length 74
from 172.16.110.2:52521 Mar 28 00:47:40.608: RASLib::RASRecvData: RRQ (seq# 12142) rcvd from
[172.16.110.2:52521] on sock [0x60FE9B04] Mar 28 00:47:40.608: RASLib::ras_sendto: msg length 52
from 172.16.110.1:1719 to 172.16.110.2:52521 Mar 28 00:47:40.608: RASLib::RASSendRCF: RCF (seq#
12142) sent to 172.16.110.2 Mar 28 00:48:25.608: RASLib::RASRecvData: successfully rcvd message
of length 74 from 172.16.110.2:52521 Mar 28 00:48:25.612: RASLib::RASRecvData: RRQ (seq# 12143)
rcvd from [172.16.110.2:52521] on sock [0x60FE9B04] Mar 28 00:48:25.612: RASLib::ras_sendto: msg
length 52 from 172.16.110.1:1719 to 172.16.110.2:52521 Mar 28 00:48:25.612: RASLib::RASSendRCF:
RCF (seq# 12143) sent to 172.16.110.2 SanJose3640A# SanJose3640A# SanJose3640A#show gatekeeper
calls Total number of active calls = 1. GATEKEEPER CALL INFO ===== LocalCallID
Age(secs) BW 21-6872 63 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
```

故障排除

此部分提供信息故障排除您的配置。

故障排除命令

[命令输出解释程序](#) ([仅限注册用户](#)) (OIT) 支持某些 **show** 命令。使用 OIT 可查看对 **show** 命令输出的分析。

注意： 发出 **debug** 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

- [debug voip aaa](#) -启用网关的aaa调试消息将输出到系统控制台。
- [debug isdn q931](#) - [显示关于呼叫建立及拆线、本地路由器\(用户端\)和网络之间的ISDN网络连接\(第三层\)断开的信息。](#)
- [debug voip ccapi inout](#) -调试呼叫控制API。
- [debug voip ivr](#) -调试IVR应用程序。
- [debug ras](#) -显示注册、接纳和状态协议(RAS)发送的消息种类和编址和接收。

相关信息

- [TCL IVR API版本1.0程序员的指南](#)
- [配置思科接入平台的交互语音应答](#)
- [Cisco H.323网关安全和记帐增强功能](#)
- [语音技术支持](#)
- [语音和统一通信产品支持](#)
- [Cisco IP 电话故障排除](#)
- [技术支持和文档 - Cisco Systems](#)