

# VoIP com IVR

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## [Introdução](#)

Este documento mostra-lhe como configurar e pesquisar defeitos a resposta de voz interativa básica (IVR) em uma rede voip com gateways. O IVR é um termo usado para descrever os sistemas que fornecem a informação sob a forma das mensagens gravadas sobre linhas de telefone em resposta à entrada de usuário sob a forma das palavras dita ou da sinalização multifrequency do tom dual (DTMF) (mais comum). Os exemplos incluem os bancos que permitem que você verifique seu equilíbrio de todo o telefone e sistemas automatizados da quota de ações.

## [Pré-requisitos](#)

### [Requisitos](#)

Não existem requisitos específicos para este documento.

### [Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- Software Release 12.1(1) de Cisco IOS® que é executado no Roteadores.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se você estiver trabalhando em uma rede ativa, certifique-se de que entende o impacto potencial de qualquer comando antes de utilizá-lo.

## [Convenções](#)

Consulte as [Convenções de Dicas Técnicas da Cisco](#) para obter mais informações sobre convenções de documentos.

## [Configurar](#)

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

**Nota:** Use a ferramenta [Command Lookup Tool](#) ([apenas para clientes registrados](#)) para obter mais informações sobre os comandos usados neste documento.

## [Diagrama de Rede](#)

Este documento utiliza a configuração de rede mostrada neste diagrama:

O Raleigh5300 neste diagrama da rede executa o IVR usando o script interno do **clid\_authen\_collect**. Este script olha a identificação de número automática de uma chamada recebida (ANI). Isto ajuda o atendimento que recebe dispositivos para identificar o número da chamada originada e Dialed Number Identification Service (DNIS) e o número que foi chamado para alcançar um dispositivo particular. Então tenta combinar estes com um nome de usuário e senha. Se o script não combina a um nome de usuário e senha, como faz neste caso, usa Comandos de voz para obter o account number e a senha (referidos frequentemente como o "PIN"). Depois que um chamador incorpora o nome de usuário e senha e é autenticado, o script alerta para que um número de destino esteja chamado.

A configuração de IVR aqui é muito uma configuração básica. Em um ambiente real, o nome de usuário e senha é armazenado em um server do Remote Authentication Dial-In User Service (RADIUS). A autenticação de login H.323 do Authentication, Authorization, and Accounting (AAA) aponta ao RAIO, e não local. Isto é realizado com o **comando aaa authentication login h323 group radius** na configuração do roteador que executa o IVR.

Sob o **comando dial-peer voice 1**, o aplicativo de IVR é configurado. Neste caso, aponta ao script do **clid\_authen\_collect**. Há umas várias configurações para o IVR no software. Entre no **[summary]** da [Voz do aplicativo do atendimento do exec command show](#) para ver isto. Refira [configurar a resposta de voz interativa para plataformas de acesso de Cisco](#) para mais informação.

## [Configurações](#)

Este documento utiliza as seguintes configurações:

- [Raleigh 5300A](#)
- [Raleigh 3640A](#)
- [SÃO JOSÉ 5300A](#)

• [SÃO JOSÉ 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
```

## SÃO JOSÉ 5300A

```
SanJose5300A#show run Building configuration... Current
configuration: !! Last configuration change at 00:15:49
UTC Tue Mar 28 2000 ! NVRAM config last updated at
00:15:50 UTC Tue Mar 28 2000 ! version 12.1 service
timestamps debug datetime msec service timestamps log
datetime msec no service password-encryption ! hostname
SanJose5300A ! logging buffered 50000 debugging enable
secret password !--- Choose a strong password with at
least one capital letter, !--- one number, and one
special character. !!! resource-pool disable ! ! ! ! !
ip subnet-zero ! isdn voice-call-failure 0 mta receive
maximum-recipients 0 ! ! controller T1 0 framing esf
clock source line primary linecode b8zs ds0-group 1
timeslots 1-4 type e&m-immediate-start ! controller T1 1
clock source line secondary 1 ! controller T1 2 !
controller T1 3 ! ! voice-port 0:1 ! ! dial-peer voice 1
pots answer-address 4085556001 destination-pattern
408#4085556... direct-inward-dial port 0:1 prefix 6 !
dial-peer voice 2 voip destination-pattern 9195552...
tech-prefix 919# session target ras ! num-exp 2...
9195552... gateway ! interface Ethernet0 no ip address !
interface FastEthernet0 ip address 172.16.110.2
255.255.255.0 duplex auto speed auto h323-gateway voip
interface h323-gateway voip id SJgk1 ipaddr 172.16.110.1
1718 h323-gateway voip h323-id SJ5300A@cisco.com h323-
gateway voip tech-prefix 408# ! ip classless ip route
172.16.120.0 255.255.255.0 172.16.110.10 no ip http
server ! ! ! line con 0 transport input none line aux 0
line vty 0 4 password cisco login ! ntp clock-period
17179924 ntp server 172.16.110.10 end
```

## SÃO JOSÉ 3640A

```
SanJose3640A#show run Building configuration... Current
configuration: !! NVRAM config last updated at 00:05:33
UTC Tue Mar 28 2000 ! version 12.1 service timestamps
debug datetime msec service timestamps log datetime msec
no service password-encryption ! hostname SanJose3640A !
boot system flash c3640-ix-mz.120-7.T logging buffered
50000 debugging enable secret password !--- Choose a
strong password with at least one capital letter, !---
one number, and one special character. ! ! ! ! ! ip
subnet-zero ! ip dvmrp route-limit 20000 ! ! interface
Ethernet1/0 ip address 172.16.110.1 255.255.255.0 !
interface Serial1/0 no ip address no ip mroute-cache
shutdown no fair-queue ! interface Ethernet1/1 no ip
address shutdown ! ip classless ip route 172.16.120.0
255.255.255.0 172.16.110.10 no ip http server ! tftp-
server flash:c3640-ix-mz.121-1.bin ! gatekeeper zone
local SJgk1 cisco.com zone remote RALgk1 cisco.com
172.16.120.1 1719 zone prefix RALgk1 919... gw-type-
prefix 919#* no shutdown ! ! line con 0 transport input
none line aux 0 line vty 0 4 password cisco login ! ntp
clock-period 17179867 ntp server 172.16.110.10 end
```

## [Verificar](#)

Esta seção fornece as informações para confirmar que sua configuração funciona

adequadamente.

A [Output Interpreter Tool \(apenas para clientes registrados\)](#) (OIT) suporta determinados comandos show. Use a OIT para exibir uma análise da saída do comando show.

- [gateway da mostra](#) - Indica o status atual de gateway.
- [mostre atendimentos do porteiro](#) - Indica o estado de cada atendimento em curso que um porteiro está ciente de.
- [mostre o GW-tipo-prefixo do porteiro](#) - Indica a tabela do prefixo de tecnologia do gateway.
- [flash da mostra](#) - Indica os índices da memória Flash.
- [mostre o clid\\_authen\\_collect da Voz do aplicativo do atendimento](#) - Indica uma lista de Aplicações de voz que são configuradas.
- [mostre valores-limite do porteiro](#) - Indica o estado de todos os valores-limite registrados para um porteiro.
- [log da mostra](#) - Indica o **resultado do debug** do logging buffer quando os **comandos debug** são permitidos.
- [mostre o \[brief\] da voz ativa do atendimento](#) - Indica o status de chamada para todas as portas de voz.
- [eliminação de erros da mostra](#) - Indica que **comandos debug** são permitidos a um momento determinado.

Depois que você incorpora as configurações mostradas neste documento em seu Roteadores, verifique que a rede se opera corretamente. Estes comandos e saída respectiva mostram uma implementação bem sucedida das configurações neste documento.

Os problemas mais comuns com IVR incluem:

- O aplicativo não é configurado corretamente no dial-peer do serviço de telefonia tradicional (POTS). Certifique-se de que a chamada de telefonia entrante combina o POTS dial peer com o aplicativo. O POTS dial peer combina o primeiro dial-peer com o comando port de harmonização na configuração ou se o número chamado combina o **<number> entrante do chamar-número do** subcommand do dial-peer. Certifique-se do aplicativo exista realmente com o comando do **[summary] da Voz do aplicativo do atendimento da mostra**. Certifique-se de que o nome do aplicativo não contém um erro de sintaxe.
- Certifique-se de que o direto-para dentro-seletor não está configurado nos potenciômetros do dial-peer.
- Assegure-se de que os arquivos de áudio apropriados estejam carregados no flash.
- Assegure-se de que a autenticação com nome de usuário e senha esteja configurada corretamente.

## [Saída Raleigh5300A](#)

```
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 { $sevent ==
"digit" } { set event [startTimer $info(timeLeft) info] } if { $sevent == "timeout" } {
insertMessage flash:beep.au retInfo do_active_last_timer } else { set state end } return 0 }
proc do_active {} { global state if { ( [creditTimeLeft] == "unlimited") || ([creditTimeLeft] ==
"uninitialized") } { do_active_notimer } else { do_active_timer } return 0 } proc do_out_of_time
{} { global state set prompt(url) flash:out_of_time.au set prompt(playComplete) true set event
[promptAndCollect prompt info ] set state end return 0 } proc do_authen_fail {} { global state
set prompt(url) flash:auth_failed.au set prompt(playComplete) true set event [promptAndCollect
prompt info ] set state end return 0 } proc do_place_fail {} { global state playFailureTone 5
retInfo set state end return 0 } #----- # And here is the main
loop # acceptCall set event [authenticate [ani] [dnis] info] if {$sevent != "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 } }

```

**O roteador Raleigh tem alguns comandos debug permitidos. O comando show debug mostra este:**

```

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

```

**Supõe que um atendimento está feito quando permitido com debuga mostrado. Esta é a saída**

## que ocorre com tal atendimento:

```
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\_authentication 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='' authn\_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 authn\_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=lacb.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\_CONFERENCED\_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: 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 OnTimeRvPayout=15900  
GapFillWithSilence=0 ms GapFillWithPrediction=0 ms GapFillWithInterpolation=0 ms  
GapFillWithRedundancy=0 ms HiWaterPayoutDelay=70 ms LoWaterPayoutDelay=50 ms ReceiveDelay=50  
ms LostPackets=0 EarlyPackets=0 LatePackets=0 VAD = enabled CoderTypeRate=g729r8 CodecBytes=20  
SignalingType=cas Raleigh5300A# 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: <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

## Saída SanJose5300A

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  
[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#

## Saída de Raleigh3600A

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 -----  
----- -----  
----- 172.16.120.2 1720 172.16.120.2 49831  
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  
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 RASSignalAddr 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#

## [Saída SanJose3640A](#)

SanJose3640A#**show debug** H.323 RAS: H.323 RAS Messages debugging is on SanJose3640A#**show gatekeeper endpoint** GATEKEEPER ENDPOINT REGISTRATION =====  
CallSignalAddr Port RASSignalAddr Port Zone Name Type F -----  
-----  
----- -- 172.16.110.2 1720 172.16.110.2 52521 SJgk1 VOIP-GW H323-ID:  
SJ5300A@cisco.com Total number of active registrations = 1 SanJose3640A#**show gatekeeper gw-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

## [Troubleshooting](#)

Esta seção fornece a informação para pesquisar defeitos sua configuração.

## Comandos para Troubleshooting

A [Output Interpreter Tool](#) ([apenas para clientes registrados](#)) (OIT) suporta determinados comandos show. Use a OIT para exibir uma análise da saída do comando show.

**Nota:** Consulte [Informações Importantes sobre Comandos de Debugação](#) antes de usar comandos **debug**.

- [debugar o voip aaa](#) - Permite mensagens de debugging para o gateway aaa de ser output ao console do sistema.
- [debugar o q931 de ISDN](#) - Informação dos indicadores sobre a configuração de chamada e desconexão das conexões de rede ISDN (camada 3) entre o roteador local (lado do usuário) e a rede.
- [debugar o inout do ccapi do voip](#) - Debuga o controle de chamada API.
- [debugar o ivr do voip](#) - Debuga o aplicativo de IVR.
- [debugar ras](#) - Indica os tipos e o endereçamento das mensagens do registro, da admissão e do protocolo status (RAS) enviadas e recebidas.

## Informações Relacionadas

- [O guia do programador da versão API TCL IVR 1.0](#)
- [Configurando a resposta de voz interativa para plataformas de acesso de Cisco](#)
- [Melhorias da Segurança do Gateway e de Relatório do Cisco H.323](#)
- [Suporte à Tecnologia de Voz](#)
- [Suporte ao Produto de Voz e Comunicações Unificadas](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)