

# VoIP с IVR

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## [Введение](#)

Этот документ показывает вам, как настроить и устранить неполадки основного интерактивного голосового ответа (IVR) в Сети VoIP со шлюзами. IVR является термином, использованным для описания систем, которые предоставляют сведения в форме записанных сообщений по телефонным линиям в ответ на ввод пользователя в форме произнесенных слов или двухтонального многочастотного набора (DTMF), сигнализирующий (более распространенный). Примеры включают банки, которые позволяют вам проверять свой баланс с любого телефона и автоматизированных систем котировки акций.

## [Предварительные условия](#)

### [Требования](#)

Для этого документа отсутствуют особые требования.

### [Используемые компоненты](#)

Сведения, содержащиеся в данном документе, касаются следующих версий программного обеспечения и оборудования:

- Релиз 12.1 Программного обеспечения Cisco IOS (1), который выполняется в маршрутизаторах.

Сведения, содержащиеся в данном документе, были получены с устройств в специальной лабораторной среде. Все устройства, описанные в данном документе, были запущены с конфигурацией по умолчанию. При работе с реальной сетью необходимо полностью осознавать возможные результаты использования всех команд.

## Условные обозначения

[Дополнительные сведения об условных обозначениях см. в документе Условные обозначения технических терминов Cisco.](#)

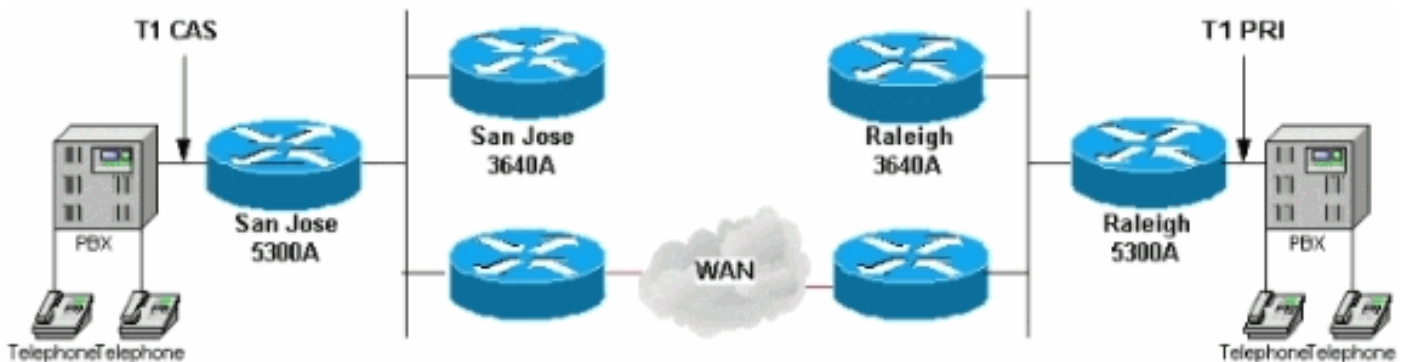
## Настройка

В этом разделе содержатся сведения о настройке функций, описанных в этом документе.

**Примечание:** [Чтобы получить подробные сведения о командах в данном документе, используйте Средство поиска команд \(только для зарегистрированных клиентов\).](#)

## Схема сети

В этом документе используются настройки сети, показанные на данной диаграмме:



Raleigh5300 в этой схеме сети выполняет IVR с помощью `clid_authn_collect` внутренний сценарий. Этот сценарий посмотрел на автоматическое определение номера (ANI) входящего вызова. Это помогает вызову, который получает устройства для определения количества вызывающей стороны и сервиса идентификации набранного номера (DNIS) и номера, который вызвали для достижения конкретного устройства. Затем это пытается совпасть с ними с именем пользователя и паролем. Если сценарий не в состоянии совпадать к имени пользователя и паролю, как он делает в этом случае, он использует голосовые инструкции для получения номера учетной записи и пароля (часто называемый "PIN"). После того, как абонент вводит имя пользователя и пароль и аутентифицируется, приглашения сценария для назначенного номера, который вызовут.

Конфигурация IVR здесь является очень простой конфигурацией. В реальной среде имя пользователя и пароль сохранено в сервере Сервиса RADIUS. H.323 регистрационного имени для проверки подлинности аутентификации, авторизации и учета (AAA) указывает к RADIUS, и не локальный. Это выполнено с командой `aaa authentication login h323 group radius` в конфигурации маршрутизатора, который выполняет IVR.

При команде `dial-peer voice 1` настроено приложение IVR. В этом случае это указывает к сценарию `clid_authen_collect`. Существуют различные конфигурации для IVR в программном обеспечении. Введите [call application voice exec command show \[сводка\]](#) для наблюдения этого. См. [Интерактивный голосовой ответ Настройки для Платформ доступа Cisco](#) для получения дополнительной информации.

## [Конфигурации](#)

Эти конфигурации используются в данном документе:

- [Raleigh 5300A](#)
- [Raleigh 3640 A](#)
- [Сан-Хосе 5300 A](#)
- [Сан-Хосе 3640 A](#)

### **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 3640 A

```
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 RALgkl cisco.com
zone remote SJgkl cisco.com 172.16.110.1 1719 zone
prefix SJgkl 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-Xoce 5300 A

```
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 SJgkl 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-Xoce 3640 A

```
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
```

## Проверка

В этом разделе дается информация для проверки правильности функционирования вашей конфигурации.

[Средство Output Interpreter \(OIT\) \(только для зарегистрированных клиентов\) поддерживает определенные команды show.](#) Посредством OIT можно анализировать выходные данные команд show.

- [show gateway](#)- Отображает текущий статус шлюза.
- [show gatekeeper calls](#) - Отображает статус каждого текущего вызова, о котором знает сторожевое устройство.
- [show gatekeeper gw-type-prefix](#) - Отображает таблицу технологического префикса шлюза.
- [show flash](#)- Отображает содержание флэш-памяти.
- [clid\\_authn\\_collect show call application voice](#) - Отображает список голосовых приложений, которые настроены.
- [show gatekeeper endpoints](#)- Отображает статус всех зарегистрированных оконечных точек для сторожевого устройства.
- [show log](#)- Когда команды отладки включены, отображает **выходные данные отладки** от буфера журнала.
- [show call active voice \[краткое описание\]](#) - Отображает состояние вызова для всех голосовых портов.
- [show debugging](#)- Показы, которые **команды отладки** включены в любое заданное время.

После того, как вы введете конфигурации, показанные в этот документ в ваши маршрутизаторы, проверите, что сеть работает правильно. Эти команды и соответствующие выходные данные show успешное внедрение конфигураций в этом документе.

Самые обычные проблемы с IVR включают:

- Приложение должным образом не настроено на точке вызова PlainOld Telephone Service (POTS) (обычная телефонная сеть). Удостоверьтесь, что входящие Вызовы в телефонии совпадают с узлом обычной телефонной сети с приложением. Если вызываемый номер совпадает с подкомандой `incoming called-number <number>` точки вызова, узел обычной телефонной сети совпадает с первой точкой вызова с командой соответствующего порта в конфигурации или. Проверьте, что приложение фактически существует через [show call application voice \[сводка\]](#) команда. Удостоверьтесь, что имя приложения не

содержит синтаксическую ошибку.

- Удостоверьтесь, что direct-inward-dial не настроен на горшках точки вызова.
- Гарантируйте, что надлежащие аудио файл загружены во Флэш.
- Гарантируйте, что должным образом настроена аутентификация с именем пользователя и паролем.

## [Выходные данные 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 } }

```

**Маршрутизатор RALEIGH имеет некоторые включенные команды отладки. Команда show debug показывает это:**

```

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

```

**Предположите, что вызов выполнен, в то время как включено с показанными отладками. Это - выходные данные, которые происходят при таком вызове:**

```

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: \$ \$ms\_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: \$  
\$ms\_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='' 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 00:45:30.677: :[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\_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:

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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: 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
```

## [Выходные данные 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#
```

## [Выход 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 -----
-----
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#

## Выход 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

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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
```

## Устранение неполадок

В этом разделе содержатся сведения по устранению неполадок конфигурации.

### Команды для устранения неполадок

Средство Output Interpreter (OIT) (только для зарегистрированных клиентов) поддерживает определенные команды show. Посредством OIT можно анализировать выходные данные команд show.

**Примечание:** Обратитесь к документу Важная информация о командах отладки, прежде чем использовать команды debug.

- [debug voip aaa](#) - Включает отладку сообщения для aaa шлюза, который будет выведен к консоли системы.
- [debug isdn q931](#) - отображение сведений об установлении соединения и освобождении канала в сети ISDN (третий уровень модели OSI) между локальным маршрутизатором (на стороне пользователя) и сетью.
- [debug voip ccapi inout](#)- Отлаживает API управления вызовами.
- [debug voip ivr](#) - Отлаживает приложение IVR.
- [debug ras](#) - Отображает типы и адресацию Регистрации, Разрешения и Протокола Статуса (RAS) сообщения, передаваемые и полученные.

## Дополнительные сведения

- [Руководство программиста ВЕРСИИ API TCL IVR 1.0](#)
- [Интерактивный голосовой ответ Настройки для платформ доступа Cisco](#)
- [Усовершенствования безопасности и учета в шлюзе Cisco H.323 Gateway](#)
- [Поддержка голосовых технологий](#)
- [Поддержка продуктов Голосовой и Унифицированной связи](#)
- [Устранение неполадок в системах IP-телефонии Cisco](#)
- [Cisco Systems – техническая поддержка и документация](#)