VoIP met IVR

Inhoud

Inleiding

Dit document toont u hoe u basisspraak respons (IVR) in een VoIP netwerk met gateways kunt configureren en oplossen. IVR is een term die wordt gebruikt om systemen te beschrijven die informatie verstrekken in de vorm van opgenomen berichten via telefoonlijnen in reactie op gebruikersinput in de vorm van gesproken woorden of dual tone multifrekwentie (DTMF) signalering (meer gebruikelijk). Tot de voorbeelden behoren banken die het mogelijk maken uw saldo te controleren aan de hand van telefoon- en geautomatiseerde aandelenquotasystemen.

Voorwaarden

Vereisten

Er zijn geen specifieke vereisten van toepassing op dit document.

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Cisco IOS®-softwarerelease 12.1(1)die in de routers werkt.

De informatie in dit document is gebaseerd op apparaten in een specifieke laboratoriumomgeving.

Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als u in een levend netwerk werkt, zorg er dan voor dat u de potentiële impact van om het even welke opdracht begrijpt alvorens het te gebruiken.

Conventies

Raadpleeg [Cisco Technical Tips Conventions (Conventies voor technische tips van Cisco) voor meer informatie over documentconventies.](#)
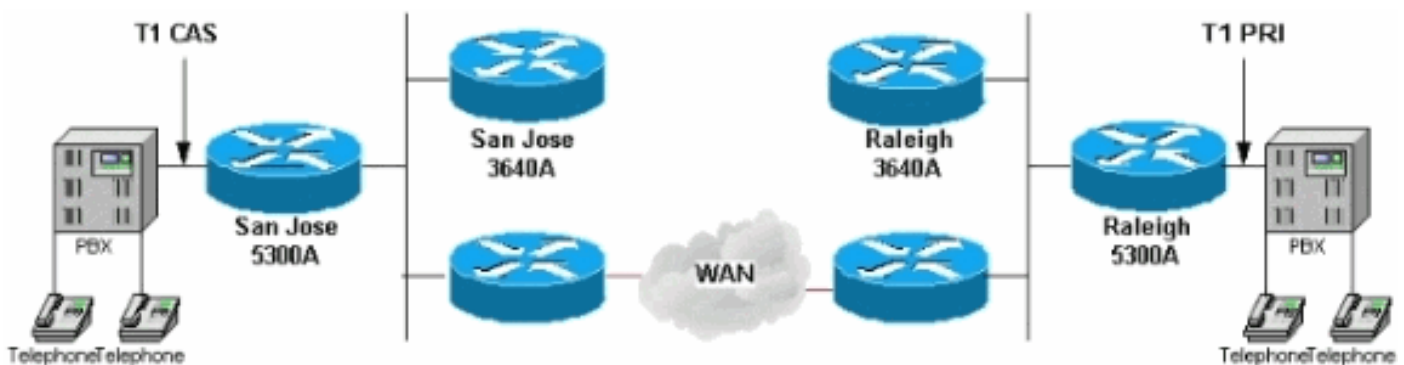
Configureren

Deze sectie bevat informatie over het configureren van de functies die in dit document worden beschreven.

N.B.: Gebruik het [Opdrachtupgereedschap](#) ([alleen geregistreerde](#) klanten) om meer informatie te vinden over de opdrachten die in dit document worden gebruikt.

Netwerkdiagram

Dit document gebruikt de netwerkinstellingen die in dit diagram worden weergegeven:

Raleigh5300 in dit netwerkdiagram draait IVR met behulp van het interne script **clides_authen_Collector**. Dit script kijkt naar de automatische nummeridentificatie van een inkomende oproep (ANI). Dit helpt de oproep die apparaten ontvangt om het nummer van de oproepende partij en de dialed number Identification Service (DNIS) te identificeren en het nummer dat werd opgeroepen om een bepaald apparaat te bereiken. Vervolgens probeert het deze aan te passen met een gebruikersnaam en wachtwoord. Als het script niet overeenkomt met een gebruikersnaam en wachtwoord, zoals het in dit geval doet, gebruikt het Voice Pro om het rekeningnummer en het wachtwoord te krijgen (vaak aangeduid als "PIN"). Nadat een aanroep de gebruikersnaam en het wachtwoord invoert en als authentiek wordt verklaard, vraagt het script om een doelnummer te bellen.

De IVR-configuratie hier is een zeer basisconfiguratie. In een echte omgeving worden de gebruikersnaam en het wachtwoord opgeslagen in een RADIUS-server (Dial-In User Service) op afstand. De verificatie, autorisatie en accounting (AAA) authenticatie H.323 punten naar RADIUS, en niet lokaal. Dit wordt bereikt met de opdracht **AAA-authenticatie h323 groepsstraal** in de configuratie van de router die IVR draait.

Onder de opdracht **dial-peers spraak 1** wordt de IVR-toepassing ingesteld. In dit geval wijst het op het **clides_authen_Collecen** script. Er zijn verschillende configuraties voor IVR in de software. Voer de exec opdracht in [**om de**](#) [summary] van de [vraagtoepassingsstem](#) te zien. Raadpleeg het

gedeelte [Interactive Voice Response configureren voor Cisco Access Platforms](#) voor meer informatie.

Configuraties

Dit document gebruikt deze configuraties:

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

Raleigh 5300A

```
Raleigh5300A#show run
Building configuration...


Current configuration:
!
! Last configuration change at 00:42:21 UTC Tue Mar 28
2000
! NVRAM config last updated at 00:42:22 UTC Tue Mar 28
2000
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Raleigh5300A
!
logging buffered 50000 debugging
AAA new-model
AAA authentication login default none
AAA authentication login h323 local
enable secret  password !--- Choose a strong password
with at least one capital letter, !--- one number, and
one special character. ! username 1234 password 0 5678
spe 1/0 1/7 firmware location
system:/ucode/mica_port_firmware ! ! resource-pool
disable ! ! ! ! ! clock calendar-valid ip subnet-zero !
isdn switch-type primary-5ess isdn voice-call-failure 0
mta receive maximum-recipients 0 ! ! controller T1 0
framing esf clock source line primary linecode b8zs pri-
group timeslots 1-24 ! controller T1 1 clock source line
secondary 1 ! controller T1 2 ! controller T1 3 ! !
voice-port 0:D ! ! dial-peer voice 1 pots application
clid_authen_collect incoming called-number 4085556400
answer-address 9195552001 destination-pattern
919#9195552... port 0:D prefix 919 ! dial-peer voice 2
voip destination-pattern 4085556400 tech-prefix 408#
session target ras ! num-exp 6... 4085556... !--- This
command is used to configure a Cisco IOS® gateway to
route the calls coming to a main direct inward dial
(DID) number to an AutoAttendant. gateway ! interface
Ethernet0 no ip address shutdown ! interface Serial0:23
no ip address ip mroute-cache isdn switch-type primary-
5ess isdn incoming-voice modem fair-queue 64 256 0 no
```

```
cdp enable ! interface FastEthernet0 ip address
172.16.120.2 255.255.255.0 duplex auto speed auto h323-
gateway voip interface h323-gateway voip id RALgk1
ipaddr 172.16.120.1 1718 h323-gateway voip h323-id
RAL5300A@cisco.com h323-gateway voip tech-prefix 919# !
ip classless ip route 172.16.110.0 255.255.255.0
172.16.120.10 no ip http server ! line con 0 transport
input none line 1 48 transport output lat pad telnet
rlogin udptn v120 lapb-ta line aux 0 line vty 0 4
password cisco ! ntp clock-period 17179842 ntp server
172.16.110.10 end
```

Raleigh 3640A

```
Raleigh3640A#show run
Building configuration...


Current configuration:
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Raleigh3640A
!
logging buffered 50000 debugging
enable secret  password
```
!--- Choose a strong password with at least one capital
letter, !--- one number, and one special character. ! !
```
! ! ! ip subnet-zero ! ip dvmrp route-limit 20000 ! ! !
! ! interface Ethernet1/0 ip address 172.16.120.1
255.255.255.0 ! interface Serial1/0 no ip address no ip
mroute-cache no fair-queue ! interface TokenRing1/0 no
ip address shutdown ring-speed 16 ! ip classless ip
route 172.16.110.0 255.255.255.0 172.16.120.10 no ip
http server ! ! gatekeeper zone local RALgk1 cisco.com
zone remote SJgk1 cisco.com 172.16.110.1 1719 zone
prefix SJgk1 408....... gw-type-prefix 408#* no shutdown
! ! line con 0 transport input none line aux 0 line vty
0 4 password cisco login ! ntp clock-period 17179856 ntp
server 172.16.110.10 end
```

San Jose 5300A-software

```
SanJose5300A#show run
Building configuration...


Current configuration:
!
! Last configuration change at 00:15:49 UTC Tue Mar 28
2000
! NVRAM config last updated at 00:15:50 UTC Tue Mar 28
2000
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname SanJose5300A
```

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

San Jose 3640A

```
SanJose3640A#show run
Building configuration...


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

Verifiëren

Deze sectie verschaft de informatie om te bevestigen dat uw configuratie correct werkt.

Het Uitvoer Tolk (uitsluitend geregistreerde klanten) (OIT) ondersteunt bepaalde **show** opdrachten. Gebruik de OIT om een analyse van **tonen** opdrachtoutput te bekijken.

- Toon gateway - Toont de huidige status van de gateway.
- show gatekeeper aanroepen - hiermee wordt de status van elke doorlopende aanroep weergegeven waarvan een gatekeeper op de hoogte is.
- voorvoegsel gatekeeper gw-type voorvoegsel van gatekeeper - Toont de tabel met voorvoegsel van de gateway-technologie.
- flitser tonen - Hiermee geeft u de inhoud van het Flash geheugen weer.
- toon de stem van de vraagtoepassing clides_autoren_Collector - toont een lijst van spraaktoepassingen die worden gevormd.
- show gatekeeper endpoints - hiermee wordt de status van alle geregistreerde endpoints voor een gatekeeper weergegeven.
- Logbestand weergeven - **Hiermee geeft u de debug-**uitvoer van de logbuffer weer wanneer **debug-**opdrachten zijn ingeschakeld.
- toon actieve stem [kort] - Toont de vraagstatus voor alle spraakpoorten.
- tonen het debuggen - displays welke **debug** opdrachten op elk gewenst moment worden ingeschakeld.

Nadat u de in dit document weergegeven configuraties hebt ingevoerd in uw routers, controleert u of het netwerk correct werkt. Deze opdrachten en respectievelijke uitvoerdocumenten tonen een succesvolle implementatie van de configuraties in dit document.

De meest voorkomende problemen met IVR zijn:

- De toepassing wordt niet goed ingesteld op de POTS-dial-peers (Plafservice).Zorg dat de inkomende telefonie aankomt bij de POTS-dial-peers met de toepassing. De POTS dial-peers past de eerste wijzerplaat-peer met het overeenkomende havenbevel in de configuratie aan of als het geroepen aantal de **inkomende** vraag-**nummer** van de wijzerplaat-peer subopdracht **aanpast**.Controleer of de toepassing daadwerkelijk bestaat door de opdracht Show Call Application Voice [summary]. Zorg dat de toepassingsnaam geen syntaxisfout bevat.
- Zorg ervoor dat de Direct-Inward-dial niet op de dial-peers wordt gevormd.
- Zorg ervoor dat de juiste audio bestanden in Flash zijn geladen.
- Zorg ervoor dat de verificatie met gebruikersnaam en wachtwoord correct is ingesteld.

Raleigh5300A-uitgang

```
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 Ramsthaler
#
# 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 {$event == "collect success"} {
        set state get_pin
        set account $info(digits)
        return 0
    }
```

```
    if {$event == "collect aborted"} {
        set state get_account
        return 0
    }


    if {$event == "collect fail" || $event == "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 {$event == "collect success"} {
        set state authenticate
        set pin $info(digits)
        return 0
    }


    if {$event == "collect aborted"} {
        set state get_account
        return 0
    }


    if {$event == "collect fail" || $event == "collect timeout"} {
        # timeout
        if {$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 { $event == "authenticated" } {
        set state authen_pass
        return 0
    }


    if {$event == "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 {$event == "collect success"} {
        set state place_call
        set destination $info(digits)
        return 0
    }


    if {$event == "collect aborted"} {
        set state get_dest
        return 0
    }


    if {$event == "collect fail" || $event == "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 {$event == "active"} {
        set state active
        return 0
    }
    if {$event == "call fail"} {
        set state place_fail
        return 0
    }


    set state end
    return 0
}


proc do_active_notimer {} {
    global state


    set event [waitEvent]
    while { $event == "digit" } {
        set event [waitEvent]
    }
    set state end
    return 0
}


proc do_active_last_timer {} {
    global state


    set event [startTimer [creditTimeLeft] info]
    while { $event == "digit" } {
        set event [startTimer $info(timeLeft) info]
    }
    if { $event == "timeout" } {
        clearOutgoingLeg retInfo
        set state out_of_time
    } else {
        set state end
    }
```

```
        return 0
}


proc do_active_timer {} {
    global state


    if { [creditTimeLeft] < 10 } {
        do_active_last_timer
        return 0
    }
    set delay [expr [creditTimeLeft] - 10]
    set event [startTimer $delay info]
    while { $event == "digit" } {
        set event [startTimer $info(timeLeft) info]
    }
    if { $event == "timeout" } {
        insertMessage flash:beep.au retInfo
        do_active_last_timer
    } else {
        set state end
    }


    return 0
}


proc do_active {} {
    global state


    if { ( [creditTimeLeft] == "unlimited") ||
        ([creditTimeLeft] == "uninitialized") } {
            do_active_notimer
    } else {
            do_active_timer
    }
    return 0
}


proc do_out_of_time {} {
    global state


    set prompt(url) flash:out_of_time.au
    set prompt(playComplete) true
    set event [promptAndCollect prompt info ]
    set state end
    return 0
}


proc do_authen_fail {} {
    global state


    set prompt(url) flash:auth_failed.au
    set prompt(playComplete) true
    set event [promptAndCollect prompt info ]
    set state end
```

```
        return 0
}


proc do_place_fail {} {
    global state


    playFailureTone 5 retInfo
    set state end
    return 0
}




#------------------------------------
# And here is the main loop
#


acceptCall


set event [authenticate [ani] [dnis] info]


if {$event != "authenticated"} {
    set state get_account
} else {
    set state authen_pass
}


while {$state != "end"} {
    puts "cid([callID]) running state $state"
    if {$state == "get_account"} {
        do_get_account
    } elseif {$state == "get_pin"} {
        do_get_pin
    } elseif {$state == "authenticate"} {
        do_authenticate
    } elseif {$state == "get_dest"} {
        do_get_dest
    } elseif {$state == "place_call"} {
        do_place_call
    } elseif {$state == "active"} {
        do_active
    } elseif {$state == "authen_fail" } {
        do_authen_fail
    } elseif {$state == "authen_pass" } {
        do_authen_pass
    } elseif {$state == "place_fail"} {
        do_place_fail
    } elseif {$state == "out_of_time"} {
        do_out_of_time
    } else {
        break
    }
}
```

De router Raleigh heeft bepaalde **debug** opdrachten ingeschakeld. De **show debug** opdracht toont dit:

```
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
```

Stel dat er een telefoontje wordt gepleegd terwijl de debugs worden weergegeven. Dit is de output die met zo een vraag voorkomt:

```
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_authetication 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)
```

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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,
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                        callID=0x34, digit=6,
                        flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:23.693: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:23.793: cc_api_call_digit (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=6, duration=150) digit=6
Mar 28 00:45:24.041: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=7, flags=0x1,
                        timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:24.045: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:24.121: cc_api_call_digit (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=7, duration=130) digit=7
Mar 28 00:45:24.321: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=8,
                        flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:24.325: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:24.421: cc_api_call_digit (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=8, duration=150) digit=8
Mar 28 00:45:24.653: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=#,
                        flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:24.653: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:24.741: cc_api_call_digit (vdbPtr=0x61B9ADAC,
                        callID=0x34, digit=#, duration=140) digit=#
Mar 28 00:45:24.745: pcapp CallID 52 returning PCAPP_MATCHED. string=5678
Mar 28 00:45:24.745: ccCallAppReturn (callID=0x34)
Mar 28 00:45:24.745: ms_delete() invoking ms_stop_play() for just in case...
Mar 28 00:45:24.745: ms_stop_play() call 52 mgdTstop at 6d07h
Mar 28 00:45:24.745: ms_delete(): mc_delete_dynamicS() mc_delete_read()
Mar 28 00:45:24.745: cid(52) ta_get_event returning collect success
Mar 28 00:45:24.745: :[callID]
Mar 28 00:45:24.745: :/puts/
Mar 28 00:45:24.745: cid( 52) running state authenticate
Mar 28 00:45:24.749: :[authenticate]
Mar 28 00:45:24.749: authenticate
Mar 28 00:45:24.749:     account=1234
Mar 28 00:45:24.749:     password=5678
Mar 28 00:45:24.749: start_authetication service: ivr tcl authentication
Mar 28 00:45:24.749: AAA: parse name= idb type=-1 tty=-1
Mar 28 00:45:24.749: AAA/MEMORY: create_user (0x61B0354C) user='1234' ruser=''
                        port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): port=''
                        list='h323' action=LOGIN service=LOGIN
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): found list h323
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): Method=LOCAL
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS
Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): continue_login (user='1234')
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS
Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): Method=LOCAL
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = PASS
Mar 28 00:45:24.749: AAA/MEMORY: free_user (0x61B0354C) user='1234' ruser=''
                        port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0
Mar 28 00:45:24.749: cid(52) ta_get_event returning authenticated
Mar 28 00:45:24.753: :[callID]
Mar 28 00:45:24.753: :/puts/
Mar 28 00:45:24.753: cid( 52) running state authen_pass
Mar 28 00:45:24.753: :/dnis/
Mar 28 00:45:24.753: :/did/
Mar 28 00:45:24.757: :[callID]
Mar 28 00:45:24.757: :/puts/
Mar 28 00:45:24.757: cid( 52) running state get_dest
Mar 28 00:45:24.757: ta_PromptCmd. CallID=52


Mar 28 00:45:24.757: ccCallApp (callID=0x34)
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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=,
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                       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
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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
OnTimeRvPlayout=15900
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=50 ms
ReceiveDelay=50 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
Raleigh5300A#
```

```
Raleigh5300A#show call active voice brief
<ID>: <start>hs.<index> +<connect> pid:<peer_id> <dir> <addr> <state>
  dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <state>
 IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
  delay:<last>/<min>/<max>ms <codec>
 FR <protocol><y/n><y/n><y/n><on/off> [int dlci cid] vad: dtmf: seq:
  sig: <codec> (payload size)
 Tele <int>: tx:<tot>/<v>/<fax>ms <codec> noise:<l> acom:<l> i/o:<l>/<l> dBm


6F   : 54456184hs.1 +1 pid:1 Answer 9195552010 active
 dur 00:00:40 tx:1279/73076 rx:172/5504
 Tele 0:D:54: tx:25890/3440/0ms g729r8 noise:-55 acom:0  i/0:-55/-41 dBm



6F   : 54457502hs.1 +1305 pid:2 Originate 4085556400 active
 dur 00:00:14 tx:172/3440 rx:925/18500
 IP 172.16.110.2:17942 rtt:2ms pl:15900/0ms lost:0/0/0 delay:50/50/70ms g729r8
```

SanJose5300A-uitgang

```
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),
                         clled(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/0:-40/-71 dBm

SanJose5300A#show call actvice 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#
```

Raleigh3600A-uitgang

```
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#
```

SanJose3640A-uitgang

```
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
```

Problemen oplossen

Deze sectie verschaft de informatie om uw configuratie problemen op te lossen.

Opdrachten voor troubleshooting

Het Uitvoer Tolk (uitsluitend geregistreerde klanten) (OIT) ondersteunt bepaalde **show** opdrachten. Gebruik de OIT om een analyse van **tonen** opdrachtoutput te bekijken.

Opmerking: Raadpleeg Belangrijke informatie over debug Commands voordat u **debug**-opdrachten afgeeft.

- **debug voip a** - hiermee kunnen de debugberichten voor gateway a worden uitgevoerd naar de systeemconsole.
- **debug ISDN Q931** - Informatie over installatie bij oproepen en verwijdering van ISDN-netwerkverbindingen (Layer 3) tussen de lokale router (gebruikerszijde) en het netwerk.
- **debug voip ccapi inout** - Hiermee wordt de API voor gespreksbeheer besproken.
- **voip ivr** debug - Hiermee wordt de IVR-toepassing ontwikkeld.
- **debug ras** - Hiermee geeft u de typen en adressering van berichten van het Registratie-, Toeleverings- en Status Protocol (RAS) die worden verzonden en ontvangen weer.

Gerelateerde informatie

- TCL IVR API versie 1.0 Programmeergids
- Interactive Voice Response configureren voor Cisco access platforms
- Verbeteringen in Cisco H.323 gateway voor beveiliging en accounting
- Ondersteuning voor spraaktechnologie
- Productondersteuning voor spraak en Unified Communications
- Probleemoplossing voor Cisco IP-telefonie
- Technische ondersteuning en documentatie – Cisco Systems