

# VoIP mit IVR

## Inhalt

[Einführung](#)

[Voraussetzungen](#)

[Anforderungen](#)

[Verwendete Komponenten](#)

[Konventionen](#)

[Konfigurieren](#)

[Netzwerkdigramm](#)

[Konfigurationen](#)

[Überprüfen](#)

[Raleigh5300A-Ausgabe](#)

[SanJose5300A Ausgabe](#)

[Raleigh3600A-Ausgabe](#)

[SanJose3640A Ausgabe](#)

[Fehlerbehebung](#)

[Befehle zur Fehlerbehebung](#)

[Zugehörige Informationen](#)

## [Einführung](#)

Dieses Dokument beschreibt die Konfiguration und Fehlerbehebung von grundlegenden interaktiven Sprachreaktionen (IVR) in einem VoIP-Netzwerk mit Gateways. IVR ist ein Begriff zur Beschreibung von Systemen, die Informationen in Form von aufgezeichneten Nachrichten über Telefonleitungen als Antwort auf Benutzereingaben in Form von gesprochenen Wörtern oder Mehrfrequenzwahlsignalen (DTMF) (häufiger) bereitstellen. Beispiele hierfür sind Banken, mit denen Sie Ihr Guthaben von einem beliebigen Telefon- und automatisierten Börsennotierungssystem aus überprüfen können.

## [Voraussetzungen](#)

### [Anforderungen](#)

Für dieses Dokument bestehen keine speziellen Anforderungen.

### [Verwendete Komponenten](#)

Die Informationen in diesem Dokument basieren auf den folgenden Software- und Hardwareversionen:

- Cisco IOS® Softwareversion 12.1(1), die auf den Routern ausgeführt wird.

Die in diesem Dokument enthaltenen Informationen wurden aus Geräten in einer bestimmten Laborumgebung erstellt. Alle in diesem Dokument verwendeten Geräte haben mit einer leeren (Standard-)Konfiguration begonnen. Wenn Sie in einem Live-Netzwerk arbeiten, stellen Sie sicher, dass Sie die potenziellen Auswirkungen eines Befehls verstehen, bevor Sie es verwenden.

## Konventionen

Weitere Informationen zu Dokumentkonventionen finden Sie unter [Cisco Technical Tips Conventions](#) (Technische Tipps zu Konventionen von Cisco).

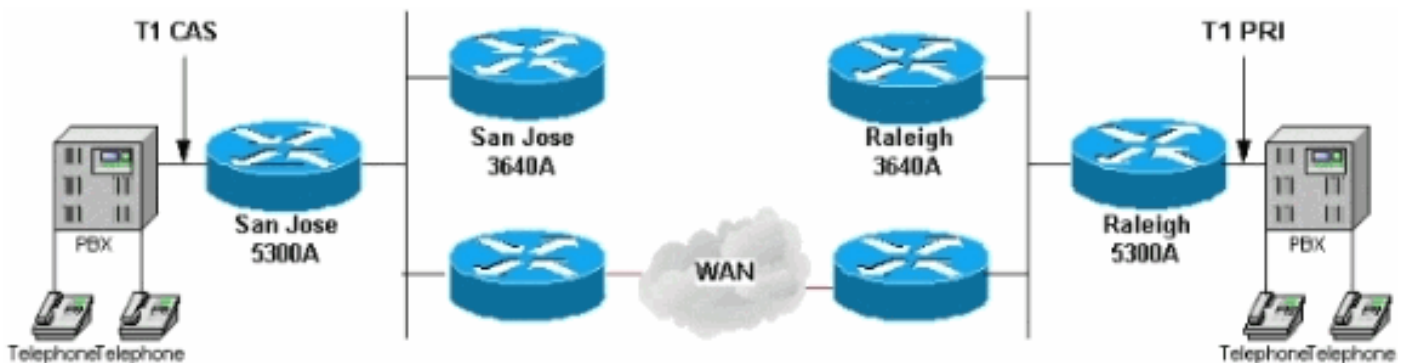
## Konfigurieren

In diesem Abschnitt erhalten Sie Informationen zum Konfigurieren der in diesem Dokument beschriebenen Funktionen.

**Hinweis:** Verwenden Sie das [Command Lookup Tool](#) (nur [registrierte](#) Kunden), um weitere Informationen zu den in diesem Dokument verwendeten Befehlen zu erhalten.

## Netzwerkdigramm

In diesem Dokument wird die in diesem Diagramm dargestellte Netzwerkeinrichtung verwendet:



Der Raleigh5300 in diesem Netzwerkdigramm führt IVR mit dem internen Skript **clid\_authn\_collection aus**. Dieses Skript untersucht die automatische Rufnummernerkennung (Automatic Number Identification, ANI) eines eingehenden Anrufs. So kann der Anruf, der Geräte empfängt, die Nummer des anrufenden Teilnehmers und des gewählten Rufnummernidentifizierungsdienstes (DNIS) sowie die Nummer identifizieren, die zum Erreichen eines bestimmten Geräts angerufen wurde. Anschließend wird versucht, diese mit einem Benutzernamen und einem Kennwort abzugleichen. Wenn das Skript nicht mit einem Benutzernamen und einem Kennwort übereinstimmt, wie in diesem Fall, verwendet es Sprachansagen, um die Kontonummer und das Kennwort abzurufen (häufig als "PIN" bezeichnet). Nachdem ein Anrufer den Benutzernamen und das Kennwort eingegeben und authentifiziert hat, fordert das Skript den Aufruf einer Zielnummer an.

Die IVR-Konfiguration ist eine sehr einfache Konfiguration. In einer realen Umgebung werden Benutzername und Kennwort in einem RADIUS-Server (Remote Authentication Dial-In User Service) gespeichert. Die Authentifizierungs-Anmeldung für Authentifizierung, Autorisierung und Abrechnung (Authentication, Authorization, Accounting - AAA) H.323 verweist auf RADIUS und nicht auf lokal. Dies wird mithilfe des Befehls **aaa authentication login h323 group radius** in der

Konfiguration des Routers erreicht, auf dem IVR ausgeführt wird.

Unter dem Befehl **dial-peer voice 1** wird die IVR-Anwendung konfiguriert. In diesem Fall verweist er auf das Skript **clid\_authen\_collection**. Die Software enthält verschiedene Konfigurationen für IVR. Geben Sie den Befehl **exec show call application voice [summary]** ein, um dies anzuzeigen. Weitere Informationen finden Sie unter [Konfigurieren von Interactive Voice Response für Cisco Access-Plattformen](#).

## Konfigurationen

In diesem Dokument werden folgende Konfigurationen verwendet:

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

### Raleigh 5300 A

```
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 RALgk1 cisco.com
zone remote SJgk1 cisco.com 172.16.110.1 1719 zone
prefix SJgk1 408..... gw-type-prefix 408#* no shutdown
!! line con 0 transport input none line aux 0 line vty
0 4 password cisco login ! ntp clock-period 17179856 ntp
server 172.16.110.10 end
```

## San Jose 5300A

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

```
Current configuration:
```

```
!
! Last configuration change at 00:15:49 UTC Tue Mar 28
2000
! NVRAM config last updated at 00:15:50 UTC Tue Mar 28
2000
!
```

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

## San Jose 3640A

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

Current configuration:
!
! NVRAM config last updated at 00:05:33 UTC Tue Mar 28
2000
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname SanJose3640A
!
boot system flash c3640-ix-mz.120-7.T
logging buffered 50000 debugging
enable secret password !--- Choose a strong password
with at least one capital letter, !--- one number, and
one special character. ! ! ! ! ! ip subnet-zero ! ip
dvmrp route-limit 20000 ! ! interface Ethernet1/0 ip
address 172.16.110.1 255.255.255.0 ! interface Serial1/0
no ip address no ip mroute-cache shutdown no fair-queue
! interface Ethernet1/1 no ip address shutdown ! ip
classless ip route 172.16.120.0 255.255.255.0
172.16.110.10 no ip http server ! tftp-server
flash:c3640-ix-mz.121-1.bin ! gatekeeper zone local
```

```
SJgk1 cisco.com zone remote RALgk1 cisco.com
172.16.120.1 1719 zone prefix RALgk1 919..... gw-type-
prefix 919#* no shutdown !! line con 0 transport input
none line aux 0 line vty 0 4 password cisco login ! ntp
clock-period 17179867 ntp server 172.16.110.10 end
```

## Überprüfen

Dieser Abschnitt enthält Informationen zur Bestätigung, dass Ihre Konfiguration ordnungsgemäß funktioniert.

Das [Output Interpreter Tool](#) (nur [registrierte](#) Kunden) (OIT) unterstützt bestimmte **show**-Befehle. Verwenden Sie das OIT, um eine Analyse der **Ausgabe des Befehls show anzuzeigen**.

- [show gateway](#) - Zeigt den aktuellen Gateway-Status an.
- [Gatekeeper-Anrufe anzeigen](#): Zeigt den Status aller laufenden Anrufe an, die einem Gatekeeper bekannt sind.
- [show gatekeeper gw-type-prefix](#) - Zeigt die Präfixtabelle für die Gateway-Technologie an.
- [show flash](#) - Zeigt den Inhalt des Flash-Speichers an.
- [show call application voiceclid\\_authen\\_collection](#) - Zeigt eine Liste der konfigurierten Sprachanwendungen an.
- [Gatekeeper-Endpunkte anzeigen](#): Zeigt den Status aller registrierten Endpunkte für einen Gatekeeper an.
- [show log](#) - Zeigt die **Debugausgabe** aus dem Protokollierungspuffer an, wenn **Debug**-Befehle aktiviert sind.
- [show call active voice \[brief\]](#) - Zeigt den Anrufstatus für alle Sprach-Ports an.
- [show debugging](#) - Zeigt an, welche **Debug**-Befehle zu einem bestimmten Zeitpunkt aktiviert sind.

Nachdem Sie die in diesem Dokument angegebenen Konfigurationen in die Router eingegeben haben, überprüfen Sie, ob das Netzwerk ordnungsgemäß funktioniert. Diese Befehle und die entsprechende Ausgabe zeigen eine erfolgreiche Implementierung der Konfigurationen in diesem Dokument.

Zu den häufigsten Problemen mit IVR gehören:

- Die Anwendung ist auf dem DFÜ-Peer (Plain Old Telephone Service, POTS) nicht ordnungsgemäß konfiguriert. Stellen Sie sicher, dass der eingehende Telefonanruf mit dem POTS-DFÜ-Peer der Anwendung übereinstimmt. Der POTS-Dial-Peer vergleicht den ersten Dial-Peer mit dem entsprechenden Port-Befehl in der Konfiguration oder wenn die angerufene Nummer mit dem **eingehenden** Dial-Peer-Unterbefehl **incoming called-number <Nummer>** übereinstimmt. Stellen Sie sicher, dass die Anwendung über den Befehl [show call application voice \[summary\]](#) vorhanden ist. Stellen Sie sicher, dass der Anwendungsname keinen Syntaxfehler enthält.
- Stellen Sie sicher, dass Direct-Inward-Dial nicht auf den Dial-Peer-Ports konfiguriert ist.
- Stellen Sie sicher, dass die richtigen Audiodateien in Flash geladen werden.
- Stellen Sie sicher, dass die Authentifizierung mit Benutzername und Kennwort ordnungsgemäß konfiguriert ist.

## [Raleigh5300A-Ausgabe](#)

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 {$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
    }
}

```

Auf dem Raleigh-Router sind einige **Debugbefehle** aktiviert. Der Befehl **show debug** zeigt Folgendes:

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

```

Gehen Sie davon aus, dass ein Anruf bei aktivierter Debugging-Funktion ausgeführt wird. Dies ist die Ausgabe, die bei einem solchen Anruf auftritt:

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=lacb.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_authetication service: ivr tcl authentication
Mar 28 00:45:24.749: AAA: parse name= idb type=-1 tty=-1
Mar 28 00:45:24.749: AAA/MEMORY: create_user (0x61B0354C) user='1234' ruser=''
port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): port=''
list='h323' action=LOGIN service=LOGIN
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): found list h323
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): Method=LOCAL
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS
Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): continue_login (user='1234')
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS
Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): Method=LOCAL
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = PASS
Mar 28 00:45:24.749: AAA/MEMORY: free_user (0x61B0354C) user='1234' ruser=''
port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0
Mar 28 00:45:24.749: cid(52) ta_get_event returning authenticated
```



```
Mar 28 00:45:24.753: :[callID]
Mar 28 00:45:24.753: :/puts/
Mar 28 00:45:24.753: cid( 52) running state authen_pass
Mar 28 00:45:24.753: :/dnis/
Mar 28 00:45:24.753: :/did/
Mar 28 00:45:24.757: :[callID]
Mar 28 00:45:24.757: :/puts/
Mar 28 00:45:24.757: cid( 52) running state get_dest
Mar 28 00:45:24.757: ta_PromptCmd. CallID=52

Mar 28 00:45:24.757: ccCallApp (callID=0x34)
Mar 28 00:45:24.757: prompt and collect app got callID 52
Mar 28 00:45:24.757:     Playing prompt enter_destination.au
Mar 28 00:45:24.757:     Prompt interrupt enabled
Mar 28 00:45:24.757:     No return on play complete
Mar 28 00:45:24.757:     Matching against dial plan
Mar 28 00:45:24.757:     Abort key is *      Termination key is #
Mar 28 00:45:24.757:     Matching against 0 patterns.
Mar 28 00:45:24.757: ccCallSetContext (callID=0x34, context=0x61A3AAA4)
Mar 28 00:45:24.761: ms_create() Iniz ply_timer
Mar 28 00:45:24.761: ccAssociateStream (callID=0x34 coder=5 vad=0
    recordFunc=0x0 evQ=0x61BE4420)
Mar 28 00:45:24.761: cc_api_call_associated (vdbPtr=0x61B9ADAC,
    callID=0x34, disp=0)
Mar 28 00:45:24.761: ms_associateDone(): xmitFunc = playFunc 0x60B8B358
Mar 28 00:45:24.761: ms_associateDone(): CallID 52 First Buf Play
    at 6d07h of enter_destination.au
Mar 28 00:45:24.761: ms_associateDone() 6d07h, Tstart(ply: iSndDly 1000, pSnce 0)
Mar 28 00:45:25.761: $ $ms_process() >>ms_start_play()
Mar 28 00:45:25.761: ms_start_play() 6d07h mgdTstop(ply)
Mar 28 00:45:29.393: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
    callID=0x34, digit=6,
    flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:29.393: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:29.573: cc_api_call_digit (vdbPtr=0x61B9ADAC,
    callID=0x34, digit=6, duration=230) digit=6
Mar 28 00:45:29.573: ms_stop_play() call 52 mgdTstop at 6d07h
Mar 28 00:45:29.573: ms_stop_play(): Play Stopped at 6d07h
Mar 28 00:45:29.573: ccDisassociateStream (callID=0x34)
Mar 28 00:45:29.801: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
    callID=0x34, digit=4,
    flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:29.805: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:29.921: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
    digit=4, duration=170) digit=4
Mar 28 00:45:30.181: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
    callID=0x34, digit=0,
    flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:30.185: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:30.281: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
    digit=0, duration=150) digit=0
Mar 28 00:45:30.533: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
    callID=0x34, digit=0,
    flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:30.533: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:30.673: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
    digit=0, duration=190) digit=0
Mar 28 00:45:30.673: pcapp CallID 52 returning PCAPP_MATCHED. string=6400
Mar 28 00:45:30.673: ccCallAppReturn (callID=0x34)
Mar 28 00:45:30.673: ms_delete() invoking ms_stop_play() for just in case...
Mar 28 00:45:30.673: ms_stop_play() call 52 mgdTstop at 6d07h
Mar 28 00:45:30.673: ms_delete(): mc_delete_dynamicS() mc_delete_read()
Mar 28 00:45:30.673: cid(52) ta_get_event returning collect success
```

```
Mar 28 00:45:30.677: :[callID]
Mar 28 00:45:30.677: :/puts/
Mar 28 00:45:30.677: cid( 52) running state place_call
Mar 28 00:45:30.677: :[placeCall]
Mar 28 00:45:30.677: Placing call for callID 52 to destination=6400
Mar 28 00:45:30.677: ccCallApp (callID=0x34)
Mar 28 00:45:30.681: placecall CallID 52 got event CC_EV_CALL_HANDOFF
Mar 28 00:45:30.681: ccCallSetContext (callID=0x34, context=0x61EBED14)
Mar 28 00:45:30.681: Matched peers(1)
Mar 28 00:45:30.681: placecall pc_setupPeer cid(52), destPat(4085556400), matched(10),
    prefix(), peer(61C088AC)
Mar 28 00:45:30.681: ccCallSetupRequest (Inbound call = 0x34, outbound peer =2, dest=,
    params=0x61A650F8 mode=0, *callID=0x61BC6EF0)
Mar 28 00:45:30.681: callingNumber=9195552010, calledNumber=4085556400, redirectNumber=
Mar 28 00:45:30.681: accountNumber=1234, finalDestFlag=0,
    guid=lacb.27d8.98f4.006b.0000.0000.2071.a5e8
Mar 28 00:45:30.681: peer_tag=2
Mar 28 00:45:30.681: ccIFCallSetupRequest: (vdbPtr=0x6174EC64, dest=,
    callParams={called=4085556400,
    calling=9195552010, fdest=0, voice_peer_tag=2}, mode=0x0)
Mar 28 00:45:30.681: ccCallSetContext (callID=0x35, context=0x61C72B0C)
Mar 28 00:45:30.681: placecall cid(52) state change PC_CS_INIT to PC_CS_CALL_SETTING
Mar 28 00:45:30.681: RASlib::ras_sendto: msg length 115 from 172.16.120.2:49831
    to 172.16.120.1:1719
Mar 28 00:45:30.685: RASlib::RASSendARQ: ARQ (seq# 12165) sent to 172.16.120.1
Mar 28 00:45:30.685: start_h323_accounting:
Mar 28 00:45:30.685: start_h323_ccapi_accounting: Error: Null userp
Mar 28 00:45:30.689: RASlib::RASRecvData: successfully rcvd message
    of length 7 from 172.16.120.1:1719
Mar 28 00:45:30.689: RASlib::RASRecvData: RIP (seq# 12165) rcvd
    from [172.16.120.1:1719] on sock[6179E6A4]
Mar 28 00:45:30.705: RASlib::RASRecvData: successfully rcvd message
    of length 24 from 172.16.120.1:1719
Mar 28 00:45:30.705: RASlib::RASRecvData: ACF (seq# 12165) rcvd from
    [172.16.120.1:1719] on sock [0x6179E6A4]
Mar 28 00:45:31.713: cc_api_call_alert(vdbPtr=0x6174EC64, callID=0x35,
    prog_ind=0x8, sig_ind=0x1)
Mar 28 00:45:31.713: placecall CallID 53 got event CC_EV_CALL_ALERT
Mar 28 00:45:31.713: ccConferenceCreate (confID=0x61BC6F40, callID1=0x34,
    callID2=0x35, tag=0x0)
Mar 28 00:45:31.713: cc_api_bridge_done (confID=0x14, srcIF=0x6174EC64, srcCallID=0x35,
    dstCallID=0x34, disposition=0, tag=0x0)
Mar 28 00:45:31.713: placecall cid(52) state change PC_CS_CALL_SETTING to
    PC_CS_CONFERENCING_ALERT
Mar 28 00:45:31.713: cc_api_bridge_done (confID=0x14, srcIF=0x61B9ADAC, srcCallID=0x34,
    dstCallID=0x35, disposition=0, tag=0x0)
Mar 28 00:45:31.713: cc_api_caps_ind (dstVdbPtr=0x6174EC64, dstCallId=0x35,
    srcCallId=0x34, caps={codec=0xEBF7, fax_rate=0xFF,
    vad=0x3, modem=0x3 codec_bytes=48, signal_type=2})
Mar 28 00:45:31.717: placecall CallID 52 got event CC_EV_CONF_CREATE_DONE
Mar 28 00:45:31.717: placecall cid(52) state change PC_CS_CONFERENCING_ALERT
    to PC_CS_CONFERENCE_ALERT
Mar 28 00:45:32.321: cc_api_caps_ind (dstVdbPtr=0x61B9ADAC, dstCallId=0x34,
    srcCallId=0x35, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
    codec_bytes=20, signal_type=0})
Mar 28 00:45:32.321: cc_api_caps_ack (dstVdbPtr=0x61B9ADAC, dstCallId=0x34,
    srcCallId=0x35, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
    codec_bytes=20, signal_type=0})
Mar 28 00:45:32.325: cc_api_caps_ack (dstVdbPtr=0x6174EC64, dstCallId=0x35,
    srcCallId=0x34, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
    codec_bytes=20, signal_type=0})
Mar 28 00:45:35.745: RASlib::ras_sendto: msg length 76 from 172.16.120.2:49831
    to 172.16.120.1:1719
Mar 28 00:45:35.745: RASlib::RASSendRRQ: RRQ (seq# 12166) sent to 172.16.120.1
```

Mar 28 00:45:35.749: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.120.1:1719

Mar 28 00:45:35.749: RASLib::RASRecvData: RCF (seq# 12166) rcvd from [172.16.120.1:1719] on sock [0x6179E6A4]

Mar 28 00:45:40.673: cc\_api\_call\_digit (vdbPtr=0x61B9ADAC, callID=0x34, digit=T, duration=0)

Mar 28 00:45:40.673: placecall CallID 52 got event CC\_EV\_CALL\_DIGIT

Mar 28 00:45:43.845: cc\_api\_call\_connected(vdbPtr=0x6174EC64, callID=0x35)

Mar 28 00:45:43.845: placecall CallID 53 got event CC\_EV\_CALL\_CONNECTED

Mar 28 00:45:43.845: placecall CallID 52 returning PLACECALL\_ACTIVE.

Mar 28 00:45:43.845: ccCallAppReturn (callID=0x34)

Mar 28 00:45:43.845: pCall(0x61B00C24), settlement\_credit\_time=0

Mar 28 00:45:43.845: ccCallSetContext (callID=0x35, context=0x61B00C24)

Mar 28 00:45:43.845: cid(52) ta\_get\_event returning active

Mar 28 00:45:43.845: :[callID]

Mar 28 00:45:43.845: :/puts/

Mar 28 00:45:43.845: cid( 52) running state active

Mar 28 00:45:43.849: :/creditTimeLeft/

Mar 28 00:45:43.849: :[waitEvent]

Mar 28 00:45:43.849: Waiting Event for callID 52

Mar 28 00:45:51.269: cc\_api\_call\_disconnected(vdbPtr=0x6174EC64, callID=0x35, cause=0x10)

Mar 28 00:45:51.273: ccConferenceDestroy (confID=0x14, tag=0x0)

Mar 28 00:45:51.273: cc\_api\_bridge\_drop\_done (confID=0x14, srcIF=0x6174EC64, srcCallID=0x35, dstCallID=0x34, disposition=0 tag=0x0)

Mar 28 00:45:51.273: cc\_api\_bridge\_drop\_done (confID=0x14, srcIF=0x61B9ADAC, srcCallID=0x34, dstCallID=0x35, disposition=0 tag=0x0)

Mar 28 00:45:51.273: ccCallDisconnect (callID=0x35, cause=0x10 tag=0x0)

Mar 28 00:45:51.273: RASLib::ras\_sendto: msg length 76 from 172.16.120.2:49831 to 172.16.120.1:1719

Mar 28 00:45:51.273: RASLib::RASSendDRQ: DRQ (seq# 12167) sent to 172.16.120.1

Mar 28 00:45:51.277: RASLib::RASRecvData: successfully rcvd message of length 3 from 172.16.120.1:1719

Mar 28 00:45:51.277: RASLib::RASRecvData: DCF (seq# 12167) rcvd from [172.16.120.1:1719] on sock [0x6179E6A4]

Mar 28 00:45:51.277: stop\_h323\_ccapi\_accounting: Error: Null userp

Mar 28 00:45:51.281: cc\_api\_call\_disconnect\_done(vdbPtr=0x6174EC64, callID=0x35, disp=0, tag=0x0)

Mar 28 00:45:51.281: cid(53) outgoing disconnected

Mar 28 00:45:51.281: cid(52) ta\_get\_event returning outgoing disconnected

Mar 28 00:45:51.281: ta\_WaitEventCmd(): ta\_get\_event(event [outgoing disconnected])

Mar 28 00:45:51.281: TCL script eval for callID 52 completed. code=OK

Mar 28 00:45:51.281: ccCallDisconnect (callID=0x34, cause=0x10 tag=0x0)

Mar 28 00:45:51.297: stop\_h323\_ccapi\_accounting: Error: Null userp

Mar 28 00:45:51.297: cc\_api\_call\_disconnect\_done(vdbPtr=0x61B9ADAC, callID=0x34, disp=0, tag=0x0)

Mar 28 00:45:51.305: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected from 9195552010 , call lasted 32 seconds

Mar 28 00:45:51.305: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x8002

Mar 28 00:45:51.305: Cause i = 0x8090 - Normal call clearing

Mar 28 00:45:51.353: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x02

Mar 28 00:45:51.353: ISDN Se0:23: TX -> RELEASE\_COMP pd = 8 callref = 0x8002

Mar 28 00:45:51.365: %LINK-3-UPDOWN: Interface Serial0:18, changed state to down

Mar 28 00:46:20.748: RASLib::ras\_sendto: msg length 76 from 172.16.120.2:49831 to 172.16.120.1:1719

Mar 28 00:46:20.748: RASLib::RASSendRRQ: RRQ (seq# 12168) sent to 172.16.120.1

Mar 28 00:46:20.752: RASLib::RASRecvData: successfully rcvd message of length 52 from 172.16.120.1:1719

Mar 28 00:46:20.752: RASLib::RASRecvData: RCF (seq# 12168) rcvd from [172.16.120.1:1719] on sock [0x6179E6A4]

Raleigh5300A#

Raleigh5300A#

Raleigh5300A#show call active voice

GENERIC:

SetupTime=54456184 ms  
Index=1  
PeerAddress=9195552010  
PeerSubAddress=  
PeerId=1  
PeerIfIndex=56  
LogicalIfIndex=26  
ConnectTime=54456185  
CallDuration=00:00:44  
CallState=4  
CallOrigin=2  
ChargedUnits=0  
InfoType=2  
TransmitPackets=1475  
TransmitBytes=75244  
ReceivePackets=318  
ReceiveBytes=10176

TELE:

ConnectionId=[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]  
TxDuration=29800 ms  
VoiceTxDuration=6360 ms  
FaxTxDuration=0 ms  
CoderTypeRate=g729r8  
NoiseLevel=-55  
ACOMLevel=0  
OutSignalLevel=-42  
InSignalLevel=-56  
InfoActivity=2  
ERLLevel=15  
SessionTarget=  
ImgPages=0

GENERIC:

SetupTime=54457502 ms  
Index=1  
PeerAddress=4085556400  
PeerSubAddress=  
PeerId=2  
PeerIfIndex=57  
LogicalIfIndex=0  
ConnectTime=54458807  
CallDuration=00:00:18  
CallState=4  
CallOrigin=1  
ChargedUnits=0  
InfoType=2  
TransmitPackets=318  
TransmitBytes=6360  
ReceivePackets=1121  
ReceiveBytes=22420

VOIP:

ConnectionId[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]  
RemoteIPAddress=172.16.110.2  
RemoteUDPPort=17942  
RoundTripDelay=2 ms  
SelectedQoS=best-effort  
tx\_DtmfRelay=inband-voice  
SessionProtocol=cisco  
SessionTarget=ras  
OnTimeRvPayout=15900  
GapFillWithSilence=0 ms  
GapFillWithPrediction=0 ms  
GapFillWithInterpolation=0 ms

GapFillWithRedundancy=0 ms  
HiWaterPlayoutDelay=70 ms  
LoWaterPlayoutDelay=50 ms  
ReceiveDelay=50 ms  
LostPackets=0  
EarlyPackets=0  
LatePackets=0  
VAD = enabled  
CoderTypeRate=g729r8  
CodecBytes=20  
SignalingType=cas  
Raleigh5300A#

Raleigh5300A#**show call active voice brief**

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

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

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

## SanJose5300A Ausgabe

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)csz(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)csz(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)csz(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)csz(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)csz(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)csz(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)csz(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)csz(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=  
OnTimeRvPayout=16720  
GapFillWithSilence=0 ms  
GapFillWithPrediction=0 ms  
GapFillWithInterpolation=0 ms  
GapFillWithRedundancy=0 ms  
HiWaterPayoutDelay=70 ms  
LoWaterPayoutDelay=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-Ausgabe

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 Ausgabe](#)

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	

## Fehlerbehebung

Dieser Abschnitt enthält Informationen zur Fehlerbehebung in Ihrer Konfiguration.

### Befehle zur Fehlerbehebung

Das [Output Interpreter Tool](#) (nur [registrierte](#) Kunden) (OIT) unterstützt bestimmte **show**-Befehle. Verwenden Sie das OIT, um eine Analyse der **Ausgabe des Befehls show** anzuzeigen.

**Hinweis:** Lesen Sie [vor dem](#) Ausgabe von **Debug**-Befehlen unter [Wichtige Informationen zu Debug-Befehlen nach](#).

- [debug voip aaaa](#) - Ermöglicht die Ausgabe von Debugmeldungen für Gateway aaaa an die Systemkonsole.
- [debug isdn q931](#) - Zeigt Informationen zum Einrichten und Beenden von ISDN-Netzwerkverbindungen (Layer 3) zwischen dem lokalen Router (Benutzerseite) und dem Netzwerk an.
- [debug voip ccapi inout](#) - Debuggt die Anrufsteuerungs-API.
- [debug voip ivr](#) - Debuggt die IVR-Anwendung.
- [debug ras](#) - Zeigt die Typen und Adressen der gesendeten und empfangenen RAS-Nachrichten (Registration, Admission and Status Protocol) an.

## Zugehörige Informationen

- [TCL IVR API Version 1.0 Programmierhandbuch](#)
- [Konfigurieren der interaktiven Sprachsteuerung für Cisco Access-Plattformen](#)
- [Cisco H.323 Gateway - Verbesserungen bei Sicherheit und Buchhaltung](#)
- [Unterstützung von Sprachtechnologie](#)
- [Produkt-Support für Sprach- und Unified Communications](#)
- [Fehlerbehebung bei Cisco IP-Telefonie](#)
- [Technischer Support und Dokumentation - Cisco Systems](#)