

IVR을 사용하는 VoIP

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소개

이 문서에서는 게이트웨이가 있는 VoIP 네트워크에서 기본 IVR(interactive voice response)을 구성하고 문제를 해결하는 방법을 보여 줍니다.IVR은 사용자 입력에 대한 응답으로 음성 단어 또는 DTMF(dual tone multifrequency) 신호(더 일반적인) 형태로 전화 회선을 통해 녹음된 메시지 형태로 정보를 제공하는 시스템을 설명하는 데 사용되는 용어입니다. 예를 들면 모든 전화 및 자동 주식 견적 시스템에서 잔액을 확인할 수 있는 은행이 있습니다.

사전 요구 사항

요구 사항

이 문서에 대한 특정 요건이 없습니다.

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- 라우터에서 실행되는 Cisco IOS® Software 릴리스 12.1(1)입니다.

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다.이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다.라이브 네트워크에서 작업하는 경우, 사

용하기 전에 모든 명령의 잠재적인 영향을 이해해야 합니다.

표기 규칙

문서 규칙에 대한 자세한 내용은 [Cisco 기술 팀 표기 규칙을 참고하십시오.](#)

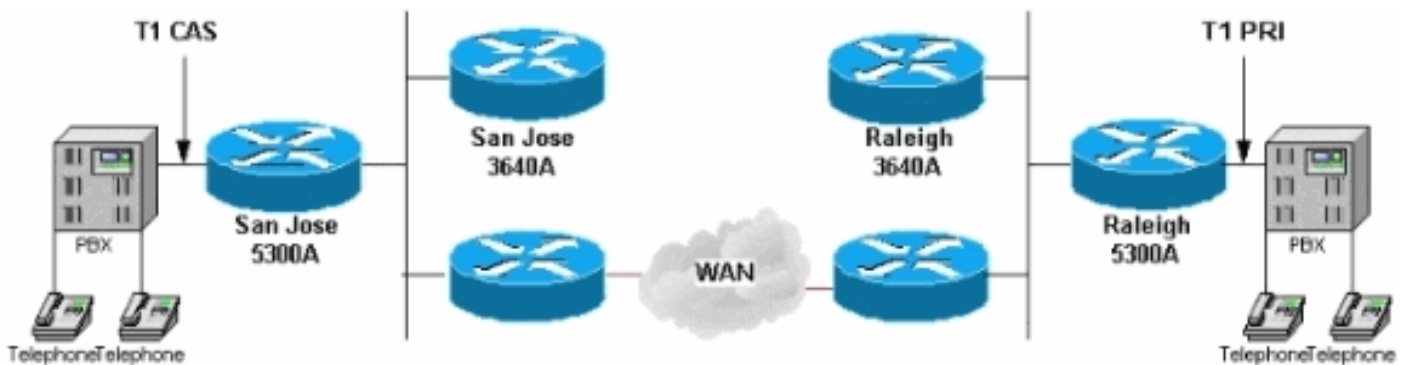
구성

이 섹션에는 이 문서에서 설명하는 기능을 구성하기 위한 정보가 표시됩니다.

참고: [명령 조회 도구](#) ([등록된](#) 고객만 해당)를 사용하여 이 문서에 사용된 명령에 대한 자세한 내용을 확인하십시오.

네트워크 다이어그램

이 문서에서는 다음 다이어그램에 표시된 네트워크 설정을 사용합니다.



이 네트워크 다이어그램의 Raleigh5300은 `clid_authen_collect` 내부 스크립트를 사용하여 IVR을 실행합니다. 이 스크립트는 수신 통화의 ANI(자동 번호 식별)를 확인합니다. 이렇게 하면 전화를 받는 통화가 발신자 번호 및 DNIS(Dialed Number Identification Service) 및 특정 디바이스에 도달하기 위해 호출된 번호를 식별하는 데 도움이 됩니다. 그런 다음 사용자 이름 및 비밀번호와 일치시키려고 시도합니다. 스크립트에서 사용자 이름과 비밀번호와 일치하지 않을 경우, 음성 프롬프트를 사용하여 계정 번호와 비밀번호(종종 "PIN"이라고도 함)를 가져옵니다. 발신자가 사용자 이름 및 비밀번호를 입력하고 인증되면 스크립트는 호출할 대상 번호를 묻는 메시지를 표시합니다.

여기서 IVR 컨피그레이션은 매우 기본적인 컨피그레이션입니다. 실제 환경에서는 사용자 이름과 암호가 RADIUS(Remote Authentication Dial-In User Service) 서버에 저장됩니다. AAA(Authentication, Authorization, and Accounting) 인증 로그인 H.323은 로컬이 아닌 RADIUS를 가리킵니다. 이는 IVR을 실행하는 라우터 컨피그레이션에서 `aaa authentication login h323 group radius` 명령을 사용하여 수행됩니다.

`dial-peer voice 1` 명령 아래에 IVR 애플리케이션이 구성됩니다. 이 경우 `clid_authen_collect` 스크립트를 가리킵니다. 소프트웨어에는 IVR에 대한 다양한 컨피그레이션이 있습니다. 이 내용을 보려면 `exec` 명령 `show call application voice [summary]`를 입력합니다. 자세한 내용은 [Cisco Access Platform에 대한 대화형 음성 응답 구성](#)을 참조하십시오.

구성

이 문서에서는 다음 구성을 사용합니다.

- [롤리 5300A](#)
- [롤리 3640A](#)
- [산호세 5300A](#)
- [산호세 3640A](#)

롤리 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
```

롤리 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
```

산호세 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

```

산호세 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

```

다음을 확인합니다.

이 섹션에서는 컨피그레이션이 제대로 작동하는지 확인하는 정보를 제공합니다.

Output [Interpreter 도구](#)([등록된](#) 고객만 해당)(OIT)는 특정 **show** 명령을 지원합니다.OIT를 사용하여 **show** 명령 출력의 분석을 봅니다.

- [show gateway](#) - 현재 게이트웨이 상태를 표시합니다.
- [show gatekeeper calls](#) - 게이트키퍼가 인식하는 진행 중인 각 통화의 상태를 표시합니다.
- [show gatekeeper gw-type-prefix](#) - 게이트웨이 기술 접두사 테이블을 표시합니다.
- [show flash](#) - 플래시 메모리의 내용을 표시합니다.
- [show call application voice clid_authen_collect](#) - 구성된 음성 응용 프로그램 목록을 표시합니다.
- [show gatekeeper endpoints](#) - 게이트키퍼에 대해 등록된 모든 엔드포인트의 상태를 표시합니다.
- [show log](#) - debug 명령이 활성화된 경우 로깅 버퍼의 디버그 출력을 표시합니다.
- [show call active voice \[brief\]](#) - 모든 음성 포트의 통화 상태를 표시합니다.
- [show debugging](#) - 지정된 시간에 사용할 debug 명령을 표시합니다.

이 문서에 표시된 컨피그레이션을 라우터에 입력한 후 네트워크가 올바르게 작동하는지 확인합니다. 이러한 명령 및 각 출력은 이 문서의 구성을 성공적으로 구현한 것을 보여줍니다.

IVR의 가장 일반적인 문제는 다음과 같습니다.

- 일반 POTS(전화 서비스) 다이얼 피어에서 애플리케이션이 제대로 구성되지 않았습니다. 수신 전화 통화가 POTS 다이얼 피어와 응용 프로그램과 일치하는지 확인합니다. POTS 다이얼 피어는 컨피그레이션에서 일치하는 port 명령을 사용하여 첫 번째 다이얼 피어와 일치하거나, 호출된 번호가 수신자의 dial-peer 하위 명령과 일치하는 경우 **called-number <number>**와 일치합니다. 애플리케이션이 실제로 [show call application voice \[summary\]](#) 명령을 통해 존재하는지 확인합니다. 응용 프로그램 이름에 구문 오류가 없는지 확인합니다.
- 다이얼피어 포트에 다이렉트 안쪽으로 다이얼이 구성되지 않았는지 확인합니다.
- 올바른 오디오 파일이 플래시에 로드되었는지 확인합니다.
- 사용자 이름 및 비밀번호로 인증이 올바르게 구성되었는지 확인합니다.

[Raleigh5300A 출력](#)

```
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 dnislens [string len [dnis]]

    if { [did] && $dnislens } {
        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
    }
}
}

```

Raleigh 라우터에 일부 **debug** 명령이 활성화되어 있습니다. show debug 명령은 다음을 표시합니다

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

```

표시된 디버그를 사용하여 활성화한 상태에서 통화가 이루어졌다고 가정합니다. 이러한 통화에 발생하는 출력입니다.

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_authentication service: ivr tcl authentication
Mar 28 00:45:24.749: AAA: parse name= idb type=-1 tty=-1
Mar 28 00:45:24.749: AAA/MEMORY: create_user (0x61B0354C) user='1234' ruser=''
port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): port=''
list='h323' action=LOGIN service=LOGIN
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): found list h323
Mar 28 00:45:24.749: AAA/AUTHEN/START (3238629809): Method=LOCAL
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS
Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): continue_login (user='1234')
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = GETPASS
Mar 28 00:45:24.749: AAA/AUTHEN/CONT (3238629809): Method=LOCAL
Mar 28 00:45:24.749: AAA/AUTHEN (3238629809): status = PASS
Mar 28 00:45:24.749: AAA/MEMORY: free_user (0x61B0354C) user='1234' ruser=''
port='' rem_addr='' authen_type=ASCII service=LOGIN priv=0
Mar 28 00:45:24.749: cid(52) ta_get_event returning authenticated
Mar 28 00:45:24.753: :[callID]
Mar 28 00:45:24.753: :/puts/
Mar 28 00:45:24.753: cid( 52) running state authen_pass
Mar 28 00:45:24.753: :/dnis/
Mar 28 00:45:24.753: :/did/
Mar 28 00:45:24.757: :[callID]
Mar 28 00:45:24.757: :/puts/
Mar 28 00:45:24.757: cid( 52) running state get_dest
Mar 28 00:45:24.757: ta_PromptCmd. CallID=52

Mar 28 00:45:24.757: ccCallApp (callID=0x34)
Mar 28 00:45:24.757: prompt and collect app got callID 52
Mar 28 00:45:24.757:     Playing prompt enter_destination.au
Mar 28 00:45:24.757:     Prompt interrupt enabled
Mar 28 00:45:24.757:     No return on play complete
Mar 28 00:45:24.757:     Matching against dial plan
Mar 28 00:45:24.757:     Abort key is *     Termination key is #
Mar 28 00:45:24.757:     Matching against 0 patterns.
Mar 28 00:45:24.757: ccCallSetContext (callID=0x34, context=0x61A3AAA4)
Mar 28 00:45:24.761: ms_create() Iniz ply_timer
Mar 28 00:45:24.761: ccAssociateStream (callID=0x34 coder=5 vad=0
recordFunc=0x0 evQ=0x61BE4420)
Mar 28 00:45:24.761: cc_api_call_associated (vdbPtr=0x61B9ADAC,
callID=0x34, disp=0)
Mar 28 00:45:24.761: ms_associateDone(): xmitFunc = playFunc 0x60B8B358
Mar 28 00:45:24.761: ms_associateDone(): CallID 52 First Buf Play
```



```
at 6d07h of enter_destination.au
Mar 28 00:45:24.761: ms_associateDone() 6d07h, Tstart(ply: iSndDly 1000, pSnce 0)
Mar 28 00:45:25.761: $ $ms_process() >>ms_start_play()
Mar 28 00:45:25.761: ms_start_play() 6d07h mgdTstop(ply)
Mar 28 00:45:29.393: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
callID=0x34, digit=6,
flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:29.393: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:29.573: cc_api_call_digit (vdbPtr=0x61B9ADAC,
callID=0x34, digit=6, duration=230) digit=6
Mar 28 00:45:29.573: ms_stop_play() call 52 mgdTstop at 6d07h
Mar 28 00:45:29.573: ms_stop_play(): Play Stopped at 6d07h
Mar 28 00:45:29.573: ccDisassociateStream (callID=0x34)
Mar 28 00:45:29.801: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
callID=0x34, digit=4,
flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:29.805: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:29.921: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
digit=4, duration=170) digit=4
Mar 28 00:45:30.181: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
callID=0x34, digit=0,
flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:30.185: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:30.281: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
digit=0, duration=150) digit=0
Mar 28 00:45:30.533: cc_api_call_digit_begin (vdbPtr=0x61B9ADAC,
callID=0x34, digit=0,
flags=0x1, timestamp=0xDB1154A6, expiration=0x0)
Mar 28 00:45:30.533: pcapp CallID 52 event CC_EV_CALL_DIGIT_BEGIN ignored
Mar 28 00:45:30.673: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
digit=0, duration=190) digit=0
Mar 28 00:45:30.673: pcapp CallID 52 returning PCAPP_MATCHED. string=6400
Mar 28 00:45:30.673: ccCallAppReturn (callID=0x34)
Mar 28 00:45:30.673: ms_delete() invoking ms_stop_play() for just in case...
Mar 28 00:45:30.673: ms_stop_play() call 52 mgdTstop at 6d07h
Mar 28 00:45:30.673: ms_delete(): mc_delete_dynamicS() mc_delete_read()
Mar 28 00:45:30.673: cid(52) ta_get_event returning collect success
Mar 28 00:45:30.677: :[callID]
Mar 28 00:45:30.677: :/puts/
Mar 28 00:45:30.677: cid( 52) running state place_call
Mar 28 00:45:30.677: :[placeCall]
Mar 28 00:45:30.677: Placing call for callID 52 to destination=6400
Mar 28 00:45:30.677: ccCallApp (callID=0x34)
Mar 28 00:45:30.681: placecall CallID 52 got event CC_EV_CALL_HANDOFF
Mar 28 00:45:30.681: ccCallSetContext (callID=0x34, context=0x61EBED14)
Mar 28 00:45:30.681: Matched peers(1)
Mar 28 00:45:30.681: placecall pc_setupPeer cid(52), destPat(4085556400), matched(10),
prefix(), peer(61C088AC)
Mar 28 00:45:30.681: ccCallSetupRequest (Inbound call = 0x34, outbound peer =2, dest=,
params=0x61A650F8 mode=0, *callID=0x61BC6EF0)
Mar 28 00:45:30.681: callingNumber=9195552010, calledNumber=4085556400, redirectNumber=
Mar 28 00:45:30.681: accountNumber=1234, finalDestFlag=0,
guid=1acb.27d8.98f4.006b.0000.0000.2071.a5e8
Mar 28 00:45:30.681: peer_tag=2
Mar 28 00:45:30.681: ccIFCallSetupRequest: (vdbPtr=0x6174EC64, dest=,
callParams={called=4085556400,
calling=9195552010, fdest=0, voice_peer_tag=2}, mode=0x0)
Mar 28 00:45:30.681: ccCallSetContext (callID=0x35, context=0x61C72B0C)
Mar 28 00:45:30.681: placecall cid(52) state change PC_CS_INIT to PC_CS_CALL_SETTING
Mar 28 00:45:30.681: RASlib::ras_sendto: msg length 115 from 172.16.120.2:49831
to 172.16.120.1:1719
Mar 28 00:45:30.685: RASLib::RASSendARQ: ARQ (seq# 12165) sent to 172.16.120.1
Mar 28 00:45:30.685: start_h323_accounting:
Mar 28 00:45:30.685: start_h323_ccapi_accounting: Error: Null userp
```

Mar 28 00:45:30.689: RASLib::RASRecvData: successfully rcvd message
of length 7 from 172.16.120.1:1719

Mar 28 00:45:30.689: RASLib::RASRecvData: RIP (seq# 12165) rcvd
from [172.16.120.1:1719] on sock[6179E6A4]

Mar 28 00:45:30.705: RASLib::RASRecvData: successfully rcvd message
of length 24 from 172.16.120.1:1719

Mar 28 00:45:30.705: RASLib::RASRecvData: ACF (seq# 12165) rcvd from
[172.16.120.1:1719] on sock [0x6179E6A4]

Mar 28 00:45:31.713: cc_api_call_alert(vdbPtr=0x6174EC64, callID=0x35,
prog_ind=0x8, sig_ind=0x1)

Mar 28 00:45:31.713: placecall CallID 53 got event CC_EV_CALL_ALERT

Mar 28 00:45:31.713: ccConferenceCreate (confID=0x61BC6F40, callID1=0x34,
callID2=0x35, tag=0x0)

Mar 28 00:45:31.713: cc_api_bridge_done (confID=0x14, srcIF=0x6174EC64, srcCallID=0x35,
dstCallID=0x34, disposition=0, tag=0x0)

Mar 28 00:45:31.713: placecall cid(52) state change PC_CS_CALL_SETTING to
PC_CS_CONFERENCING_ALERT

Mar 28 00:45:31.713: cc_api_bridge_done (confID=0x14, srcIF=0x61B9ADAC, srcCallID=0x34,
dstCallID=0x35, disposition=0, tag=0x0)

Mar 28 00:45:31.713: cc_api_caps_ind (dstVdbPtr=0x6174EC64, dstCallId=0x35,
srcCallId=0x34, caps={codec=0xEBF7, fax_rate=0xFF,
vad=0x3, modem=0x3 codec_bytes=48, signal_type=2})

Mar 28 00:45:31.717: placecall CallID 52 got event CC_EV_CONF_CREATE_DONE

Mar 28 00:45:31.717: placecall cid(52) state change PC_CS_CONFERENCING_ALERT
to PC_CS_CONFERENCE_ALERT

Mar 28 00:45:32.321: cc_api_caps_ind (dstVdbPtr=0x61B9ADAC, dstCallId=0x34,
srcCallId=0x35, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
codec_bytes=20, signal_type=0})

Mar 28 00:45:32.321: cc_api_caps_ack (dstVdbPtr=0x61B9ADAC, dstCallId=0x34,
srcCallId=0x35, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
codec_bytes=20, signal_type=0})

Mar 28 00:45:32.325: cc_api_caps_ack (dstVdbPtr=0x6174EC64, dstCallId=0x35,
srcCallId=0x34, caps={codec=0x4, fax_rate=0x2, vad=0x2, modem=0x1
codec_bytes=20, signal_type=0})

Mar 28 00:45:35.745: RASLib::ras_sendto: msg length 76 from 172.16.120.2:49831
to 172.16.120.1:1719

Mar 28 00:45:35.745: RASLib::RASSendRRQ: RRQ (seq# 12166) sent to 172.16.120.1

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

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

Mar 28 00:45:40.673: cc_api_call_digit (vdbPtr=0x61B9ADAC, callID=0x34,
digit=T, duration=0)

Mar 28 00:45:40.673: placecall CallID 52 got event CC_EV_CALL_DIGIT

Mar 28 00:45:43.845: cc_api_call_connected(vdbPtr=0x6174EC64, callID=0x35)

Mar 28 00:45:43.845: placecall CallID 53 got event CC_EV_CALL_CONNECTED

Mar 28 00:45:43.845: placecall CallID 52 returning PLACECALL_ACTIVE.

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

Mar 28 00:45:43.845: pCall(0x61B00C24), settlement_credit_time=0

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

Mar 28 00:45:43.845: cid(52) ta_get_event returning active

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

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

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

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

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

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

Mar 28 00:45:51.269: cc_api_call_disconnected(vdbPtr=0x6174EC64, callID=0x35, cause=0x10)

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

Mar 28 00:45:51.273: cc_api_bridge_drop_done (confID=0x14, srcIF=0x6174EC64,
srcCallID=0x35, dstCallID=0x34, disposition=0 tag=0x0)

Mar 28 00:45:51.273: cc_api_bridge_drop_done (confID=0x14, srcIF=0x61B9ADAC,
srcCallID=0x34,
dstCallID=0x35, disposition=0 tag=0x0)

Mar 28 00:45:51.273: ccCallDisconnect (callID=0x35, cause=0x10 tag=0x0)
Mar 28 00:45:51.273: RASlib::ras_sendto: msg length 76 from 172.16.120.2:49831
to 172.16.120.1:1719
Mar 28 00:45:51.273: RASlib::RASSendDRQ: DRQ (seq# 12167) sent to 172.16.120.1
Mar 28 00:45:51.277: RASlib::RASRecvData: successfully rcvd message of length
3 from 172.16.120.1:1719
Mar 28 00:45:51.277: RASlib::RASRecvData: DCF (seq# 12167) rcvd from
[172.16.120.1:1719] on sock [0x6179E6A4]
Mar 28 00:45:51.277: stop_h323_ccapi_accounting: Error: Null userp
Mar 28 00:45:51.281: cc_api_call_disconnect_done(vdbPtr=0x6174EC64,
callID=0x35, disp=0, tag=0x0)
Mar 28 00:45:51.281: cid(53) outgoing disconnected
Mar 28 00:45:51.281: cid(52) ta_get_event returning outgoing disconnected
Mar 28 00:45:51.281: ta_WaitEventCmd(): ta_get_event(event [outgoing disconnected])
Mar 28 00:45:51.281: TCL script eval for callID 52 completed. code=OK
Mar 28 00:45:51.281: ccCallDisconnect (callID=0x34, cause=0x10 tag=0x0)
Mar 28 00:45:51.297: stop_h323_ccapi_accounting: Error: Null userp
Mar 28 00:45:51.297: cc_api_call_disconnect_done(vdbPtr=0x61B9ADAC,
callID=0x34, disp=0, tag=0x0)
Mar 28 00:45:51.305: %ISDN-6-DISCONNECT: Interface Serial0:18 disconnected
from 9195552010 , call lasted 32 seconds
Mar 28 00:45:51.305: ISDN Se0:23: TX -> DISCONNECT pd = 8 callref = 0x8002
Mar 28 00:45:51.305: Cause i = 0x8090 - Normal call clearing
Mar 28 00:45:51.353: ISDN Se0:23: RX <- RELEASE pd = 8 callref = 0x02
Mar 28 00:45:51.353: ISDN Se0:23: TX -> RELEASE_COMP pd = 8 callref = 0x8002
Mar 28 00:45:51.365: %LINK-3-UPDOWN: Interface Serial0:18, changed state to down
Mar 28 00:46:20.748: RASlib::ras_sendto: msg length 76 from 172.16.120.2:49831
to 172.16.120.1:1719
Mar 28 00:46:20.748: RASlib::RASSendRRQ: RRQ (seq# 12168) sent to 172.16.120.1
Mar 28 00:46:20.752: RASlib::RASRecvData: successfully rcvd message of
length 52 from 172.16.120.1:1719
Mar 28 00:46:20.752: RASlib::RASRecvData: RCF (seq# 12168) rcvd from
[172.16.120.1:1719] on sock [0x6179E6A4]

Raleigh5300A#
Raleigh5300A#

Raleigh5300A#**show call active voice**

GENERIC:
SetupTime=54456184 ms
Index=1
PeerAddress=9195552010
PeerSubAddress=
PeerId=1
PeerIfIndex=56
LogicalIfIndex=26
ConnectTime=54456185
CallDuration=00:00:44
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=2
TransmitPackets=1475
TransmitBytes=75244
ReceivePackets=318
ReceiveBytes=10176
TELE:
ConnectionId=[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]
TxDuration=29800 ms
VoiceTxDuration=6360 ms
FaxTxDuration=0 ms
CoderTypeRate=g729r8
NoiseLevel=-55
ACOMLevel=0

OutSignalLevel=-42
InSignalLevel=-56
InfoActivity=2
ERLLevel=15
SessionTarget=
ImgPages=0
GENERIC:
SetupTime=54457502 ms
Index=1
PeerAddress=4085556400
PeerSubAddress=
PeerId=2
PeerIfIndex=57
LogicalIfIndex=0
ConnectTime=54458807
CallDuration=00:00:18
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=2
TransmitPackets=318
TransmitBytes=6360
ReceivePackets=1121
ReceiveBytes=22420
VOIP:
ConnectionId[0x1ACB27D8 0x98F4006F 0x0 0x20755AB8]
RemoteIPAddress=172.16.110.2
RemoteUDPPort=17942
RoundTripDelay=2 ms
SelectedQoS=best-effort
tx_DtmfRelay=inband-voice
SessionProtocol=cisco
SessionTarget=ras
OnTimeRvPayout=15900
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPayoutDelay=70 ms
LoWaterPayoutDelay=50 ms
ReceiveDelay=50 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
Raleigh5300A#

Raleigh5300A#**show call active voice brief**

<ID>: <start>hs.<index> +<connect> pid:<peer_id> <dir> <addr> <state>
dur hh:mm:ss tx:<packets>/<bytes> rx:<packets>/<bytes> <state>
IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
delay:<last>/<min>/<max>ms <codec>
FR <protocol><y/n><y/n><y/n><on/off> [int dlci cid] vad: dtmf: seq:
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 출력

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)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 출력

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 출력

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	

문제 해결

이 섹션에서는 컨피그레이션 트러블슈팅을 위한 정보를 제공합니다.

문제 해결 명령

Output [Interpreter 도구\(등록된 고객만 해당\)](#)(OIT)는 특정 **show** 명령을 지원합니다.OIT를 사용하여 **show** 명령 출력의 분석을 봅니다.

참고: 디버그 명령을 [실행하기 전에 디버그 명령](#)에 대한 중요 정보를 참조하십시오.

- [debug voip aaa](#) - 게이트웨이 aaa에 대한 디버깅 메시지를 시스템 콘솔에 출력할 수 있도록 합니다.
- [debug isdn q931](#) - 로컬 라우터(사용자측)와 네트워크 간의 ISDN 네트워크 연결(레이어 3)의 통화 설정 및 해제 정보를 표시합니다.
- [debug voip ccapi inout](#) - 호출 제어 API를 디버깅합니다.
- [debug voip ivr](#) - IVR 응용 프로그램을 디버깅합니다.
- [디버그 ras](#) - 전송 및 수신된 RAS(Registration, Admission 및 Status Protocol) 메시지의 유형 및 주소를 표시합니다.

[관련 정보](#)

- [TCL IVR API 버전 1.0 프로그래머 가이드](#)
- [Cisco 액세스 플랫폼에 대한 인터랙티브 음성 응답 구성](#)
- [Cisco H.323 게이트웨이 보안 및 회계 개선 사항](#)
- [음성 기술 지원](#)
- [음성 및 통합 커뮤니케이션 제품 지원](#)
- [Cisco IP 텔레포니 문제 해결](#)
- [기술 지원 및 문서 - Cisco Systems](#)