

含IVR的VoIP

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簡介

本文檔介紹如何在具有網關的VoIP網路中配置基本的互動式語音應答(IVR)並對其進行故障排除。IVR是一個術語，用於描述通過電話線以錄音消息的形式提供資訊的系統，以響應使用者的語音或雙音多頻(DTMF)信令（更常見）的形式輸入。例如，銀行允許您通過任何電話和自動股票報價系統檢查您的餘額。

必要條件

需求

本文件沒有特定需求。

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 在路由器中運行的Cisco IOS®軟體版本12.1(1)。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您在即時網路中工作，請確保在使用任何命令之前瞭解其潛在影響。

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

設定

本節提供用於設定本文件中所述功能的資訊。

註：使用[Command Lookup Tool](#)(僅限[註冊](#)客戶)查詢有關本文檔中使用的命令的更多資訊。

網路圖表

本檔案會使用下圖所示的網路設定：



此網路圖中的Raleigh5300使用**clid_auth_collect**內部指令碼運行IVR。此指令碼檢視來電的自動號碼識別(ANI)。這有助於接收裝置的呼叫識別主叫方和被叫號碼識別服務(DNIS)的號碼以及被呼叫以到達特定裝置的號碼。然後嘗試將其與使用者名稱和密碼匹配。如果指令碼與使用者名稱和密碼不匹配(本例中即是如此)，則使用語音提示獲取帳戶號和密碼(通常稱為「PIN」)。呼叫方輸入使用者名稱和密碼並經過驗證後，指令碼會提示呼叫目標號碼。

這裡的IVR配置是一個非常基本的配置。在實際環境中，使用者名稱和密碼儲存在遠端身份驗證撥入使用者服務(RADIUS)伺服器中。驗證、授權及記帳(AAA)驗證登入H.323指向RADIUS，而不是本地。在運行IVR的路由器的配置中，這通過**aaa authentication login h323 group radius**命令來實現。

在**dial-peer voice 1**命令下，配置IVR應用。在本例中，它指向**clid_authen_collect**指令碼。軟體中有各種IVR配置。輸入**exec**命令[show call application voice \[summary\]](#)檢視此資訊。如需詳細資訊，請參閱[設定思科存取平台的互動語音回應](#)。

組態

本檔案會使用以下設定：

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

Raleigh 5300A

```
Raleigh5300A#show run
```

```
Building configuration...

Current configuration:
!
! Last configuration change at 00:42:21 UTC Tue Mar 28
2000
! NVRAM config last updated at 00:42:22 UTC Tue Mar 28
2000
!
version 12.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Raleigh5300A
!
logging buffered 50000 debugging
AAA new-model
AAA authentication login default none
AAA authentication login h323 local
enable secret password !--- Choose a strong password
with at least one capital letter, !--- one number, and
one special character. ! username 1234 password 0 5678
spe 1/0 1/7 firmware location
system:/ucode/mica_port_firmware ! ! resource-pool
disable ! ! ! ! ! clock calendar-valid ip subnet-zero !
isdn switch-type primary-5ess isdn voice-call-failure 0
mta receive maximum-recipients 0 ! ! controller T1 0
framing esf clock source line primary linecode b8zs pri-
group timeslots 1-24 ! controller T1 1 clock source line
secondary 1 ! controller T1 2 ! controller T1 3 ! !
voice-port 0:D ! ! dial-peer voice 1 pots application
clid_authen_collect incoming called-number 4085556400
answer-address 9195552001 destination-pattern
919#9195552... port 0:D prefix 919 ! dial-peer voice 2
voip destination-pattern 4085556400 tech-prefix 408#
session target ras ! num-exp 6... 4085556... !--- This
command is used to configure a Cisco IOS@ gateway to
route the calls coming to a main direct inward dial
(DID) number to an AutoAttendant. gateway ! interface
Ethernet0 no ip address shutdown ! interface Serial0:23
no ip address ip mroute-cache isdn switch-type primary-
5ess isdn incoming-voice modem fair-queue 64 256 0 no
cdp enable ! interface FastEthernet0 ip address
172.16.120.2 255.255.255.0 duplex auto speed auto h323-
gateway voip interface h323-gateway voip id RALgk1
ipaddr 172.16.120.1 1718 h323-gateway voip h323-id
RAL5300A@cisco.com h323-gateway voip tech-prefix 919# !
ip classless ip route 172.16.110.0 255.255.255.0
172.16.120.10 no ip http server ! line con 0 transport
input none line 1 48 transport output lat pad telnet
rlogin udptn v120 lapb-ta line aux 0 line vty 0 4
password cisco ! ntp clock-period 17179842 ntp server
172.16.110.10 end
```

Raleigh 3640A

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

```
Current configuration:
```

```

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

```

San Jose 5300A

```

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
```

驗證

本節提供的資訊用於確認您的組態是否正常運作。

[輸出直譯器工具](#)(僅供[已註冊](#)客戶使用)(OIT)支援某些show命令。使用OIT檢視show命令輸出的分析

。

- [show gateway](#) — 顯示目前的閘道狀態。
- [show gatekeeper calls](#) — 顯示網守知道的每個正在進行的呼叫的狀態。
- [show gatekeeper gw-type-prefix](#) — 顯示網關技術字首表。
- [show flash](#) — 顯示快閃記憶體的內容。
- [show call application voice clid_authen_collect](#) — 顯示已配置的語音應用清單。
- [show gatekeeper endpoints](#) — 顯示網守的所有已註冊端點的狀態。
- [show log](#) — 啟用debug命令後，顯示日誌記錄緩衝區的輸出。

- [show call active voice \[brief\]](#) -顯示所有語音埠的呼叫狀態。
- [show debugging](#) — 顯示哪些debug命令在任何給定時間啟用。

將本文檔中顯示的配置輸入路由器後，驗證網路是否正常運行。這些命令和相應的輸出顯示了成功實現本文檔中的配置。

IVR最常見的問題包括：

- 在普通舊式電話服務(POTS)撥號對等體上未正確配置應用程式。確保傳入的電話呼叫與應用的POTS撥號對等體匹配。POTS撥號對等體將第一個撥號對等體與配置中的matching port命令匹配，或者如果被叫號碼與dial-peer子命令incoming called-number <number>匹配。通過[show call application voice \[summary\]](#)命令檢查應用程式是否實際存在。確保應用程式名稱不包含語法錯誤。
- 請確保未在dial-peer pots上配置直接撥入。
- 確保將正確的音訊檔案載入到快閃記憶體中。
- 確保正確配置了具有使用者名稱和密碼的身份驗證。

[Raleigh5300A輸出](#)

```
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 cliid_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路由器啟用了一些debug命令。show debug指令會顯示以下情況：

```

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

```

假設呼叫是在啟用時發出的，同時顯示調試。以下是進行此類呼叫時的輸出：

```

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
```

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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
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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/
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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)
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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
OnTimeRvPlayout=15900
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=50 ms
ReceiveDelay=50 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = enabled
CoderTypeRate=g729r8
CodecBytes=20
SignalingType=cas
Raleigh5300A#

Raleigh5300A#**show call active voice brief**

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

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

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 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输出](#)

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輸出](#)

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	

疑難排解

本節提供的資訊用於對組態進行疑難排解。

疑難排解指令

[輸出直譯器工具](#)(僅供[已註冊](#)客戶使用)(OIT)支援某些**show**命令。使用OIT檢視**show**命令輸出的分析

。

註：發出**debug**指令之前，請先參閱有關Debug指令的**重要**資訊。

- [debug voip aaa](#) — 允許將網關aaa的調試消息輸出到系統控制檯。
- [debug isdn q931](#) — 顯示有關本地路由器 (使用者端) 與網路之間的ISDN網路連線 (第3層) 的呼叫建立和拆除的資訊。
- [debug voip ccapi inout](#) — 調試呼叫控制API。
- [debug voip ivr](#) — 調試IVR應用程式。
- [debug ras](#) — 顯示傳送和接收的註冊、許可和狀態協定(RAS)消息的型別和地址。

相關資訊

- [TCL IVR API 1.0版程式設計師指南](#)
- [為思科接入平台配置互動式語音響應](#)
- [Cisco H.323閘道安全和計費增強功能](#)
- [語音技術支援](#)
- [語音和整合通訊產品支援](#)
- [Cisco IP電話故障排除](#)
- [技術支援與文件 - Cisco Systems](#)