

VoIP com PPP sobre linha alugada de alta largura de banda e LLQ

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[Introduction](#)

Este documento fornece exemplos de configurações para dois roteadores Cisco 3640. As configurações permitem que os roteadores se comuniquem com VoIP com PPP em uma linha alugada de alta largura de banda com LLQ (Low Latency Queuing, enfileiramento de baixa latência). Para obter mais informações sobre LLQ, consulte o documento [VoIP sobre links PPP com qualidade de serviço \(LLQ / IP RTP Priority, LFI, cRTP\)](#).

Observação: quando este documento discute a alta largura de banda em termos de VoIP e QoS, a alta largura de banda é qualquer largura de banda acima de 768 kbps.

[Prerequisites](#)

[Requirements](#)

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- Software Cisco IOS® versão 12.2(19a) IP Plus ou qualquer outro software Cisco IOS versão 12.2, 12.2T, 12.3 ou 12.3T
- Dois roteadores Cisco 3640 com pelo menos 48 DRAM e 16 Mb de memória Flash
- Dois módulos de rede de slot de placa de interface de voz/fax Cisco NM-2V mais duas placas de interface VIC-2FXS
- Duas interfaces seriais Neste exemplo, as duas interfaces seriais são NM-1E2Ws, cada uma com uma placa de interface WIC-1T WAN.
- Telefones analógicos para conexão a portas FXS (Foreign Exchange Station) para chamadas de voz

Observação: os módulos de rede NM-1E2W, NM-1E1R2W e NM-2E2W não têm potência de desempenho suficiente para suportar a WIC-2T. A falta de suporte se deve a limitações de hardware.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

[Conventions](#)

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

[Informações de Apoio](#)

Se o tempo necessário para enviar um pacote de 1.500 bytes para o fio for maior que 10 ms, você precisará fragmentar pacotes. Este documento apresenta uma configuração sem fragmentação. A configuração é para um link de 1544 kilobits para o qual o atraso de transmissão para um pacote de 1500 bytes é menor que 10 ms.

Observação: em alguns casos em que você tem uma conexão T1 completa e dedicada, um recurso de fragmentação pode ser desnecessário. Mas você ainda precisa de um mecanismo de QoS. Use LLQ neste caso. Se o tempo necessário para enviar um pacote de 1.500 bytes para o fio for menor que 10 ms, você não precisará fragmentar pacotes. O T1 completo oferece largura de banda suficiente para permitir que pacotes de voz entrem e saiam da fila sem problemas de retardo.

Observação: se você ativou a fragmentação no roteador, há a ativação do mecanismo de enfileiramento 100% do tempo. Se você configurou o LLQ, o valor configurado limita o tráfego para a fila de prioridade. Quando você não ativou a fragmentação, o roteador aplica somente a política de QoS em caso de congestionamento.

Além disso, no caso de taxas de linha superiores a 768 kbps, o Protocolo de Transporte em Tempo Real (cRTP - Real-Time Transport Protocol) compactado pode ser desnecessário. Consulte o documento [VoIP sobre links PPP com qualidade de serviço \[LLQ / IP RTP Priority, LFI, cRTP\]](#). O uso de cRTP ajuda a economizar largura de banda porque o cRTP compacta cabeçalhos RTP IP. Na seção [Configurações](#) deste documento, a ativação de cRTP é desnecessária. O T1 permite largura de banda suficiente para que os pacotes de voz transmitam, sem compressão, para o fio sem problemas.

Cuidado: se você decidir usar cRTP, saiba que o cRTP usa recursos da CPU. O cRTP pode sobrecarregar um roteador que tem uma carga pesada de tráfego de voz.

Observação: nesta configuração, os dois roteadores se conectam back-to-back em uma linha alugada. Mas, na maioria das topologias, os roteadores com ativação de voz podem existir em qualquer lugar. Geralmente, os roteadores de voz se conectam com a conectividade da LAN a outros roteadores que se conectam à WAN. Se os roteadores de voz não se conectam via PPP em uma linha alugada, você precisa configurar todos os comandos de configuração de conectividade de WAN nos roteadores que se conectam à WAN; você não configura os comandos nos roteadores de voz, que as [Configurações](#) neste documento mostram.

Observação: essa configuração pode funcionar para os roteadores das séries Cisco 1700, [2600](#), [3600](#) e [3700](#).

[Configurar](#)

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

Observação: para encontrar informações adicionais sobre os comandos usados neste documento, use a [ferramenta Command Lookup Tool](#) (somente clientes [registrados](#)).

[Diagrama de Rede](#)

Este documento utiliza a seguinte configuração de rede:



[Configurações](#)

Este documento utiliza as seguintes configurações:

- [San Jose](#)
- [Raleigh](#)

San Jose

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

Current configuration : 1425 bytes
!
version 12.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
```

```

!
hostname SanJose3640A
!
logging buffered 50000 debugging
!
ip subnet-zero
!
!
no ip domain-lookup
!
call rsvp-sync
!
!
!
!
!
!
!
class-map match-all voice-signaling
  match access-group 103
class-map match-all voice-traffic
  match access-group 102
!
!
policy-map voice-policy
  class voice-traffic
    priority 51

!--- These are two uncompressed G729 VoIP calls at 24
kpbs each !--- that have voice activity detection (VAD)
disablement. You also need !--- to consider the Layer 2
(L2) overhead. class voice-signaling bandwidth 16 !---
This assigns a queue for voice signaling traffic that
ensures 8 kbps. !--- Note: This action is optional and
has nothing to do with good voice !--- quality. This
queue assignment is a way to secure signaling.

class class-default
  fair-queue
!--- The class-default class classifies traffic that
does !--- not fall into one of the class definitions.
The fair-queue command !--- associates the default class
weighted fair queuing (WFQ).

!
!
!
interface Ethernet1/0
  ip address 10.89.251.158 255.255.255.192
  half-duplex
!
interface Serial1/0
  bandwidth 1544
  ip address 192.168.1.1 255.255.255.0
  service-policy output voice-policy
  encapsulation ppp
  load-interval 30
  clockrate 2000000
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.89.251.129
no ip http server

```

```
!  
access-list 102 permit udp any any range 16384 32767  
access-list 103 permit tcp any eq 1720 any  
access-list 103 permit tcp any any eq 1720  
!  
voice-port 3/0/0  
!  
voice-port 3/0/1  
!  
voice-port 3/1/0  
!  
voice-port 3/1/1  
!  
dial-peer cor custom  
!  
!  
!  
dial-peer voice 1 voip  
  incoming called-number .  
  destination-pattern 2...  
  session target ipv4:192.168.1.2  
  dtmf-relay h245-alphanumeric  
  no vad  
!  
dial-peer voice 2 pots  
  destination-pattern 1001  
  port 3/0/0  
!  
dial-peer voice 3 pots  
  destination-pattern 1002  
  port 3/0/1  
!  
!  
line con 0  
line aux 0  
line vty 0 4  
password cisco  
login  
!  
end  
  
SanJose3640A#  
  
SanJose3640A#  
SanJose3640A# show version  
Cisco Internetwork Operating System Software  
IOS (tm) 3600 Software (C3640-IS-M), Version 12.2(19a),  
RELEASE SOFTWARE (fc2)  
Copyright (c) 1986-2003 by cisco Systems, Inc.  
Compiled Mon 29-Sep-03 23:45 by pwade  
Image text-base: 0x60008930, data-base: 0x61134000  
  
ROM: System Bootstrap, Version 11.1(20)AA2, EARLY  
DEPLOYMENT RELEASE SOFTWARE (fc1)  
  
SanJose3640A uptime is 5 minutes  
System returned to ROM by reload  
System image file is "flash:c3640-is-mz.122-19a.bin"  
  
cisco 3640 (R4700) processor (revision 0x00) with  
126976K/4096K bytes of memory.  
Processor board ID 15636516  
R4700 CPU at 100Mhz, Implementation 33, Rev 1.0  
Bridging software.
```

```
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology
Corp).
1 Ethernet/IEEE 802.3 interface(s)
1 Serial network interface(s)
2 Voice FXO interface(s)
2 Voice FXS interface(s)
DRAM configuration is 64 bits wide with parity disabled.
125K bytes of non-volatile configuration memory.
32768K bytes of processor board System flash
(Read/Write)
16384K bytes of processor board PCMCIA Slot1 flash
(Read/Write)

Configuration register is 0x2102

SanJose3640A#
```

Raleigh

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

Current configuration : 1406 bytes
!
version 12.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Raleigh3640A
!
logging buffered 50000 debugging
!
ip subnet-zero
!
!
no ip domain-lookup
!
call rsvp-sync
!
!
!
!
!
!
!
class-map match-all voice-signaling
  match access-group 103
class-map match-all voice-traffic
  match access-group 102
!
!
policy-map voice-policy
  class voice-traffic
    priority 51
!--- These are two uncompressed G729 VoIP calls at 24
kpbs each !--- that have VAD disablement. You also need
to consider !--- the L2 overhead. class voice-signaling
bandwidth 16 !--- This assigns a queue for voice
signaling traffic that ensures 8 kbps. !--- Note: This
action is optional and has nothing to do with good voice
!--- quality. This queue assignment is a way to secure
```

```
signaling.

class class-default
  fair-queue
  !--- The class-default class classifies traffic that
  does !--- not fall into one of the class definitions.
  The fair-queue command !--- associates the default class
  WFQ.

!
!
!
interface Ethernet1/0
  ip address 10.89.251.159 255.255.255.192
  half-duplex
!
interface Serial1/0
  bandwidth 1544
  ip address 192.168.1.2 255.255.255.0
  service-policy output voice-policy
  encapsulation ppp
  load-interval 30
!
ip classless
ip route 0.0.0.0 0.0.0.0 10.89.251.129
no ip http server
!
access-list 102 permit udp any any range 16384 32767
access-list 103 permit tcp any eq 1720 any
access-list 103 permit tcp any any eq 1720
!
voice-port 3/0/0
!
voice-port 3/0/1
!
voice-port 3/1/0
!
voice-port 3/1/1
!
dial-peer cor custom
!
!
!
dial-peer voice 1 voip
  incoming called-number .
  destination-pattern 1...
  session target ipv4:192.168.1.1
  dtmf-relay h245-alphanumeric
  no vad
!
dial-peer voice 2 pots
  destination-pattern 2001
  port 3/0/0
!
dial-peer voice 3 pots
  destination-pattern 2002
  port 3/0/1
!
!
line con 0
line aux 0
line vty 0 4
password cisco
```

```
login
!
end

Raleigh3640A#
Raleigh3640A#
Raleigh3640A# show version
Cisco Internetwork Operating System Software
IOS (tm) 3600 Software (C3640-IS-M), Version 12.2(19a),
RELEASE SOFTWARE (fc2)
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Mon 29-Sep-03 23:45 by pwade
Image text-base: 0x60008930, data-base: 0x61134000

ROM: System Bootstrap, Version 12.1(17r) [cmong 17r],
RELEASE SOFTWARE (fc1)

Raleigh3640A uptime is 6 minutes
System returned to ROM by reload
System image file is "flash:c3640-is-mz.122-19a.bin"

cisco 3640-A (R4700) processor (revision 0x00) with
94208K/4096K bytes of memory.
Processor board ID 29851759
R4700 CPU at 100Mhz, Implementation 33, Rev 1.0
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology
Corp).
1 Ethernet/IEEE 802.3 interface(s)
1 Serial network interface(s)
2 Voice FXO interface(s)
2 Voice FXS interface(s)
DRAM configuration is 64 bits wide with parity disabled.
123K bytes of non-volatile configuration memory.
32768K bytes of processor board System flash
(Read/Write)
16384K bytes of processor board PCMCIA Slot0 flash
(Read/Write)

Configuration register is 0x2102

Raleigh3640A#
```

Verificar

Depois de inserir essas [configurações](#) em seus roteadores, verifique se funcionam corretamente. Os comandos e a respectiva saída aqui demonstram uma implementação bem-sucedida das configurações.

A [Output Interpreter Tool \(somente clientes registrados\) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.](#)

- **show interface serial 1/0** —Permite verificar o status da interface serial.
- **show call active voice brief** — Permite exibir informações de chamadas durante uma chamada.
- **show call active voice** — Permite exibir informações de chamadas durante uma chamada.
- **show policy-map interface** —Permite verificar a política de QoS usada pela interface.
- **show access-list 102** —Permite verificar a seleção de pacotes pela lista de acesso para a

classe de voz. Emita o comando uma segunda vez após alguns segundos e verifique se há um aumento na contagem de pacotes. Emita o comando **clear access-list counters 102**, se necessário.

- **show voice call summary** — Permite verificar o status das chamadas. O comando mostra se as chamadas têm conexão.
- **show voice port summary** — Permite verificar o status das portas de voz. O comando mostra as portas de voz como no gancho ou fora do gancho.
- **show voice dsp** — Permite verificar o status do processador de sinal digital (DSP) e o codificador-decodificador (codec) usados por cada chamada.

Verificação do roteador San Jose

Antes de executar a verificação, verifique as interfaces para garantir que você tenha a conectividade necessária para fazer chamadas. Emita o comando **show interface serial 1/0** para verificar o status de sua interface serial. Com as [Configurações](#) neste documento, certifique-se de que suas interfaces seriais e multilink estejam em um estado ativo do protocolo de linha. Certifique-se também de ver isso:

- **LCP aberto, multilink aberto** — Indica o estabelecimento da conexão PPP.
- **Abrir: IPCP, CDPCP** — Informa que o envio do tráfego IP é possível através do link PPP.
- **Estratégia de enfileiramento: Weighted Fair** — Corresponde à interface de linha de comando (CLI) de saída de política de serviço na interface serial. A estratégia é que a configuração do LLQ priorize voz sobre dados.

```
SanJose3640A# show interface serial 1/0
Serial1/0 is up, line protocol is up
Hardware is QUICC Serial
Internet address is 192.168.1.1/24
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set
Keepalive set (10 sec)
LCP Open
Open: IPCP, CDPCP
Last input 00:00:27, output 00:00:02, output hang never
Last clearing of "show interface" counters 00:00:05
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: weighted fair
Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/1/256 (active/max active/max total)
Reserved Conversations 1/1 (allocated/max allocated)
Available Bandwidth 1091 kilobits/sec
30 second input rate 0 bits/sec, 0 packets/sec
30 second output rate 0 bits/sec, 0 packets/sec
1 packets input, 16 bytes, 0 no buffer
Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
1 packets output, 16 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 output buffer failures, 0 output buffers swapped out
0 carrier transitions
DCD=up DSR=up DTR=up RTS=up CTS=up
```

```
SanJose3640A#
```

Essa saída mostra a conectividade bem-sucedida entre os roteadores. Se você não vir que o

protocolo de linha está ativado, verifique a taxa de clock que está na interface DCE. Algumas interfaces seriais não suportam alta velocidade, como NM-8A/S. Além disso, verifique se os parâmetros em ambos os lados correspondem e, mais importante, se o encapsulamento corresponde.

A saída do comando **show call active voice brief** aqui mostra duas chamadas bem-sucedidas. Uma chamada é do roteador Raleigh para o roteador San Jose, e a outra é de San Jose para Raleigh. Esta lista explica a saída que aparece em negrito:

- **Atender 1001 ativo** —Significa que San Jose é o roteador de onde a chamada se origina.
- **Tele 3/0/0** —Significa que este é o trecho da chamada de telefone.
- **Originate 2001 ativo** —Significa que um telefone no lado de Raleigh recebe a chamada.
- **IP 192.168.1.2** —Significa que este é o leg da chamada IP.
- **Atender 2002 ativo** —Significa que Raleigh é o roteador para o qual a chamada é enviada.
- **IP 192.168.1.2** —Significa que este é o leg da chamada IP.
- **1002 ativo** —Significa que um telefone no lado de San Jose recebe a chamada.
- **Tele 3/0/1** —Significa que este é o trecho da chamada de telefone.

```
SanJose3640A# 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>
IP <ip>:<udp> rtt:<time>ms pl:<play>/<gap>ms lost:<lost>/<early>/<late>
delay:<last>/<min>/<max>ms <codec>
MODEMPASS <method> buf:<fills>/<drains> loss <overall%> <multipkt>/<corrected>
last <buf event time>s dur:<Min>/<Max>s
FR <protocol> [int dlci cid] vad:<y/n> dtmf:<y/n> seq:<y/n>
<codec> (payload size)
ATM <protocol> [int vpi/vci cid] vad:<y/n> dtmf:<y/n> seq:<y/n>
<codec> (payload size)
Tele <int>: tx:<tot>/<v>/<fax>ms <codec> noise:<l> acom:<l> i/o:<l>/<l> dBm
Proxy <ip>:<audio udp>,<video udp>,<tcp0>,<tcp1>,<tcp2>,<tcp3> endpt: <type>/<manf>
bw: <req>/<act> codec: <audio>/<video>
tx: <audio pkts>/<audio bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes>
rx: <audio pkts>/<audio bytes>,<video pkts>/<video bytes>,<t120 pkts>/<t120 bytes>
```

Total call-legs: 4

```
11E8 : 115599hs.1 +318 pid:2 Answer 1001 active
dur 00:00:29 tx:1545/30900 rx:1544/30880
Tele 3/0/0:20: tx:30890/30890/0ms g729r8 noise:0 acom:2 i/0:-35/-44 dBm
```

```
11E8 : 115823hs.1 +94 pid:1 Originate 2001 active
dur 00:00:31 tx:1556/31120 rx:1602/32040
IP 192.168.1.2:17360 rtt:4ms pl:25590/0ms lost:0/1/0 delay:69/69/70ms g729r8
```

```
11F0 : 116855hs.1 +156 pid:1 Answer 2002 active
dur 00:00:20 tx:1087/21740 rx:1009/20180
IP 192.168.1.2:16772 rtt:2ms pl:17270/0ms lost:0/0/0 delay:69/69/70ms g729r8
```

```
11F0 : 116855hs.2 +156 pid:3 Originate 1002 active
dur 00:00:20 tx:1009/20180 rx:1087/21740
Tele 3/0/1 (23): tx:21740/21740/0ms g729r8 noise:0 acom:5 i/0:-40/-40 dBm
```

Total call-legs: 4

SanJose3640A#

Esta saída do comando **show call active voice** fornece mais detalhes sobre a chamada ativa:

SanJose3640A# **show call active voice**

Total call-legs: 4

GENERIC:

SetupTime=115599 ms

Index=1

PeerAddress=1001

PeerSubAddress=

PeerId=2

PeerIfIndex=9

LogicalIfIndex=4

ConnectTime=115917

CallDuration=00:05:05

CallState=4

CallOrigin=2

ChargedUnits=0

InfoType=2

TransmitPackets=15338

TransmitBytes=306760

ReceivePackets=15337

ReceiveBytes=306740

TELE:

ConnectionId=[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]

IncomingConnectionId=[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]

TxDuration=306740 ms

VoiceTxDuration=306740 ms

FaxTxDuration=0 ms

CoderTypeRate=g729r8

NoiseLevel=0

ACOMLevel=5

OutSignalLevel=-43

InSignalLevel=-36

InfoActivity=2

ERLLevel=5

SessionTarget=

ImgPages=0

GENERIC:

SetupTime=115823 ms

Index=1

PeerAddress=2001

PeerSubAddress=

PeerId=1

PeerIfIndex=8

LogicalIfIndex=0

ConnectTime=115917

CallDuration=00:05:07

CallState=4

CallOrigin=1

ChargedUnits=0

InfoType=2

TransmitPackets=15357

TransmitBytes=307140

ReceivePackets=15403

ReceiveBytes=308060

VOIP:

ConnectionId[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]

IncomingConnectionId[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]

RemoteIPAddress=192.168.1.2

RemoteUDPPort=17360

RemoteSignallingIPAddress=192.168.1.2

RemoteSignallingPort=1720

RemoteMediaIPAddress=192.168.1.2

RemoteMediaPort=17360
RoundTripDelay=1 ms
SelectedQoS=best-effort
tx_DtmfRelay=h245-alphanumeric
FastConnect=TRUE

Separate H245 Connection=FALSE

H245 Tunneling=TRUE

SessionProtocol=cisco
SessionTarget=ipv4:192.168.1.2
OnTimeRvPlayout=300810
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=69 ms
ReceiveDelay=69 ms
LostPackets=0
EarlyPackets=2
LatePackets=0

VAD = disabled

CoderTypeRate=g729r8

CodecBytes=20
GENERIC:
SetupTime=116855 ms
Index=1
PeerAddress=2002
PeerSubAddress=
PeerId=1
PeerIfIndex=8
LogicalIfIndex=0
ConnectTime=117011
CallDuration=00:04:56
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=2
TransmitPackets=14915
TransmitBytes=298300
ReceivePackets=14837
ReceiveBytes=296740

VOIP:

ConnectionId[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
IncomingConnectionId[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
RemoteIPAddress=192.168.1.2
RemoteUDPPort=16772
RemoteSignallingIPAddress=192.168.1.2
RemoteSignallingPort=11004
RemoteMediaIPAddress=192.168.1.2
RemoteMediaPort=16772
RoundTripDelay=7 ms
SelectedQoS=best-effort
tx_DtmfRelay=h245-alphanumeric
FastConnect=TRUE

Separate H245 Connection=FALSE

H245 Tunneling=TRUE

SessionProtocol=cisco
SessionTarget=

```
OnTimeRvPlayout=295580
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=69 ms
ReceiveDelay=69 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
VAD = disabled
CoderTypeRate=g729r8
CodecBytes=20
GENERIC:
SetupTime=116855 ms
Index=2
PeerAddress=1002
PeerSubAddress=
PeerId=3
PeerIfIndex=10
LogicalIfIndex=5
ConnectTime=117011
CallDuration=00:04:59
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=2
TransmitPackets=14952
TransmitBytes=299040
ReceivePackets=15030
ReceiveBytes=300600
TELE:
ConnectionId=[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
IncomingConnectionId=[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
TxDuration=300600 ms
VoiceTxDuration=300600 ms
FaxTxDuration=0 ms
CoderTypeRate=g729r8
NoiseLevel=0
ACOMLevel=5
OutSignalLevel=-40
InSignalLevel=-41
InfoActivity=2
ERLLevel=5
SessionTarget=
ImgPages=0Total call-legs: 4

SanJose3640A#$
```

Other shows:

A saída do comando **show policy-map interface** inclui esta instrução em negrito:

- **30 segundos de taxa oferecida 51000 bps** —Mostra a largura de banda que as duas chamadas exigem, 51 kpbs.

```
SanJose3640A# show policy-map interface
Serial1/0
```

Service-policy output: voice-policy

```
Class-map: voice-traffic (match-all)
99403 packets, 6401420 bytes
30 second offered rate 51000 bps, drop rate 0 bps
Match: access-group 102
Queueing
Strict Priority
Output Queue: Conversation 264
Bandwidth 51 (kbps) Burst 1275 (Bytes)
(pkts matched/bytes matched) 407/65676
(total drops/bytes drops) 0/0
```

```
Class-map: voice-signaling (match-all)
158 packets, 12926 bytes
30 second offered rate 0 bps, drop rate 0 bps
Match: access-group 103
Queueing
Output Queue: Conversation 265
Bandwidth 16 (kbps) Max Threshold 64 (packets)
(pkts matched/bytes matched) 158/12926
(depth/total drops/no-buffer drops) 0/0/0
```

```
Class-map: class-default (match-any)
75 packets, 9221 bytes
30 second offered rate 0 bps, drop rate 0 bps
Match: any
Queueing
Flow Based Fair Queueing
Maximum Number of Hashed Queues 256
(total queued/total drops/no-buffer drops) 0/0/0
SanJose3640A#
```

A saída do comando **show access-lists 102** inclui esta instrução em negrito:

- **100676 correspondências** —Mostra que a priorização de pacotes RTP ocorre porque os pacotes chegam à lista de acesso 102.

```
SanJose3640A# show access-lists 102
Extended IP access list 102
permit udp any any range 16384 32767 (100676 matches)
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A# show access-lists 102
Extended IP access list 102
permit udp any any range 16384 32767 (100930 matches)
SanJose3640A#
SanJose3640A#
SanJose3640A# show access-lists 102
Extended IP access list 102
permit udp any any range 16384 32767 (101076 matches)
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A# show access-lists 102
Extended IP access list 102
permit udp any any range 16384 32767 (101198 matches)
SanJose3640A#
SanJose3640A#
SanJose3640A# show access-lists 102
```

```
Extended IP access list 102
permit udp any any range 16384 32767 (101304 matches)
SanJose3640A#
SanJose3640A#
```

```
SanJose3640A#
SanJose3640A# show voice call sum
PORT CODEC VAD VTSP STATE VPM STATE
=====
3/0/0 g729r8 n S_CONNECT FXSLS_CONNECT
3/0/1 g729r8 n S_CONNECT FXSLS_CONNECT
3/1/0 - - - FXOLS_ONHOOK
3/1/1 - - - FXOLS_ONHOOK
```

```
SanJose3640A#
SanJose3640A#
```

```
SanJose3640A#
SanJose3640A# show voice port sum
IN OUT
PORT CH SIG-TYPE ADMIN OPER STATUS STATUS EC
=====
3/0/0 -- fxs-ls up up off-hook idle y
3/0/1 -- fxs-ls up up off-hook idle y
3/1/0 -- fxo-ls up dorm idle on-hook y
3/1/1 -- fxo-ls up dorm idle on-hook y
```

```
SanJose3640A#
```

```
SanJose3640A# show voice dsp
DSP DSP DSPWARE CURR BOOT PAK TX/RX
TYPE NUM CH CODEC VERSION STATE STATE RST AI VOICEPORT TS ABORT PACK COUNT
=====
C542 001 01 g729r8 3.4.55 busy idle 0 0 3/0/0 NA 0 62487/61902
C542 002 01 g729r8 3.4.55 busy idle 0 0 3/0/1 NA 0 44362/44194
C542 003 01 g711ulaw 3.4.55 IDLE idle 0 0 3/1/0 NA 0 541/546
C542 004 01 g711ulaw 3.4.55 IDLE idle 0 0 3/1/1 NA 0 535/532
```

```
SanJose3640A#
```

[Verificação do roteador Raleigh](#)

O procedimento de verificação para o roteador Raleigh é semelhante ao procedimento para o roteador San Jose.

```
Raleigh3640A# show interface serial 1/0
Serial1/0 is up, line protocol is up
Hardware is QUICC Serial
Internet address is 192.168.1.2/24
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set
Keepalive set (10 sec)
LCP Open
Open: IPCP, CDPCP
Last input 00:00:15, output 00:00:00, output hang never
Last clearing of "show interface" counters 00:12:33
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
```

Queueing strategy: weighted fair

Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/1/256 (active/max active/max total)
Reserved Conversations 1/1 (allocated/max allocated)
Available Bandwidth 1091 kilobits/sec
30 second input rate 0 bits/sec, 0 packets/sec
30 second output rate 0 bits/sec, 0 packets/sec
167 packets input, 6849 bytes, 0 no buffer
Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
169 packets output, 6907 bytes, 0 underruns
0 output errors, 0 collisions, 0 interface resets
0 output buffer failures, 0 output buffers swapped out
11 carrier transitions
DCD=up DSR=up DTR=up RTS=up CTS=up

Raleigh3640A#

Raleigh3640A#

Raleigh3640A#

Raleigh3640A#

Raleigh3640A# **show call active voice**

Total call-legs: 4

GENERIC:

SetupTime=209451 ms

Index=1

PeerAddress=1001

PeerSubAddress=

PeerId=1

PeerIfIndex=8

LogicalIfIndex=0

ConnectTime=209543

CallDuration=00:08:20

CallState=4

CallOrigin=2

ChargedUnits=0

InfoType=2

TransmitPackets=25054

TransmitBytes=501080

ReceivePackets=25008

ReceiveBytes=500160

VOIP:

ConnectionId[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]

IncomingConnectionId[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]

RemoteIPAddress=192.168.1.1

RemoteUDPPort=17210

RemoteSignallingIPAddress=192.168.1.1

RemoteSignallingPort=11006

RemoteMediaIPAddress=192.168.1.1

RemoteMediaPort=17210

RoundTripDelay=3 ms

SelectedQoS=best-effort

tx_DtmfRelay=h245-alphanumeric

FastConnect=TRUE

Separate H245 Connection=FALSE

H245 Tunneling=TRUE

SessionProtocol=cisco

SessionTarget=

OnTimeRvPayout=497610

GapFillWithSilence=0 ms

GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=70 ms
LoWaterPlayoutDelay=69 ms
ReceiveDelay=69 ms
LostPackets=0
EarlyPackets=1
LatePackets=0
VAD = disabled
CoderTypeRate=g729r8
CodecBytes=20
GENERIC:
SetupTime=209451 ms
Index=2
PeerAddress=2001
PeerSubAddress=
PeerId=2
PeerIfIndex=9
LogicalIfIndex=4
ConnectTime=209543
CallDuration=00:08:21
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=2
TransmitPackets=25074
TransmitBytes=501480
ReceivePackets=25120
ReceiveBytes=502400
TELE:
ConnectionId=[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]
IncomingConnectionId=[0x38D3783F 0x14F111CC 0x801CFDB1 0x2D0CC4A5]
TxDuration=502410 ms
VoiceTxDuration=502410 ms
FaxTxDuration=0 ms
CoderTypeRate=g729r8
NoiseLevel=0
ACOMLevel=1
OutSignalLevel=-41
InSignalLevel=-37
InfoActivity=2
ERLLevel=1
SessionTarget=
ImgPages=0
GENERIC:
SetupTime=210097 ms
Index=1
PeerAddress=2002
PeerSubAddress=
PeerId=3
PeerIfIndex=10
LogicalIfIndex=5
ConnectTime=210638
CallDuration=00:08:10
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=2
TransmitPackets=24606
TransmitBytes=492120
ReceivePackets=24605
ReceiveBytes=492100
TELE:

ConnectionId=[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
IncomingConnectionId=[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
TxDuration=492110 ms
VoiceTxDuration=492110 ms
FaxTxDuration=0 ms
CoderTypeRate=g729r8
NoiseLevel=0
ACOMLevel=0
OutSignalLevel=-46
InSignalLevel=-33
InfoActivity=2
ERLLevel=0
SessionTarget=
ImgPages=0
GENERIC:
SetupTime=210480 ms
Index=1
PeerAddress=1002
PeerSubAddress=
PeerId=1
PeerIfIndex=8
LogicalIfIndex=0
ConnectTime=210638
CallDuration=00:08:11
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=2
TransmitPackets=24587
TransmitBytes=491740
ReceivePackets=24664
ReceiveBytes=493280
VOIP:
ConnectionId[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
IncomingConnectionId[0x6C135AD4 0x14F311CC 0x8024CE4C 0xAA60AB15]
RemoteIPAddress=192.168.1.1
RemoteUDPPort=18884
RemoteSignallingIPAddress=192.168.1.1
RemoteSignallingPort=1720
RemoteMediaIPAddress=192.168.1.1
RemoteMediaPort=18884
RoundTripDelay=4 ms
SelectedQoS=best-effort
tx_DtmfRelay=h245-alphanumeric
FastConnect=TRUE

Separate H245 Connection=FALSE

H245 Tunneling=TRUE

SessionProtocol=cisco
SessionTarget=ipv4:192.168.1.1
OnTimeRvPayout=487570
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPayoutDelay=70 ms
LoWaterPayoutDelay=69 ms
ReceiveDelay=69 ms
LostPackets=0
EarlyPackets=1
LatePackets=0
VAD = disabled

CoderTypeRate=g729r8

CodecBytes=20Total call-legs: 4

Raleigh3640A#

Raleigh3640A#

Raleigh3640A# **show policy interface**

Serial1/0

Service-policy output: voice-policy

Class-map: voice-traffic (match-all)

113186 packets, 7289624 bytes

30 second offered rate 51000 bps, drop rate 0 bps

Match: access-group 102

Queueing

Strict Priority

Output Queue: Conversation 264

Bandwidth 51 (kbps) Burst 1275 (Bytes)

(pkts matched/bytes matched) 471/75864

(total drops/bytes drops) 0/0

Class-map: voice-signaling (match-all)

162 packets, 13339 bytes

30 second offered rate 0 bps, drop rate 0 bps

Match: access-group 103

Queueing

Output Queue: Conversation 265

Bandwidth 16 (kbps) Max Threshold 64 (packets)

(pkts matched/bytes matched) 162/13339

(depth/total drops/no-buffer drops) 0/0/0

Class-map: class-default (match-any)

194 packets, 16761 bytes

30 second offered rate 0 bps, drop rate 0 bps

Match: any

Queueing

Flow Based Fair Queueing

Maximum Number of Hashed Queues 256

(total queued/total drops/no-buffer drops) 0/0/0

Raleigh3640A#

Raleigh3640A# **show access-lists 102**

Extended IP access list 102

permit udp any any range 16384 32767 **(113963 matches)**

Raleigh3640A#

Raleigh3640A#

Raleigh3640A# **show access-lists 102**

Extended IP access list 102

permit udp any any range 16384 32767 **(114093 matches)**

Raleigh3640A#

Raleigh3640A#

Raleigh3640A# **show access-lists 102**

Extended IP access list 102

permit udp any any range 16384 32767 **(114188 matches)**

Raleigh3640A#

Raleigh3640A#

Raleigh3640A# **show access-lists 102**

Extended IP access list 102

permit udp any any range 16384 32767 **(114404 matches)**

Raleigh3640A#

Raleigh3640A#

```
Raleigh3640A#
Raleigh3640A# show voice call sum
PORT CODEC VAD VTSP STATE VPM STATE
=====
3/0/0 g729r8 n S_CONNECT FXSLS_CONNECT
3/0/1 g729r8 n S_CONNECT FXSLS_CONNECT
3/1/0 - - - FXOLS_ONHOOK
3/1/1 - - - FXOLS_ONHOOK
```

```
Raleigh3640A#
```

```
Raleigh3640A# show voice port sum
IN OUT
PORT CH SIG-TYPE ADMIN OPER STATUS STATUS EC
=====
3/0/0 -- fxs-ls up up off-hook idle y
3/0/1 -- fxs-ls up up off-hook idle y
3/1/0 -- fxo-ls up dorm idle on-hook y
3/1/1 -- fxo-ls up dorm idle on-hook y
```

```
Raleigh3640A#
```

```
Raleigh3640A#
```

```
Raleigh3640A# show voice dsp
DSP DSP DSPWARE CURR BOOT PAK TX/RX
TYPE NUM CH CODEC VERSION STATE STATE RST AI VOICEPORT TS ABORT PACK COUNT
=====
C542 001 01 g729r8 3.4.55 busy idle 0 0 3/0/0 NA 0 69615/68771
C542 002 01 g729r8 3.4.55 busy idle 0 0 3/0/1 NA 0 51511/51520
C542 003 01 g711ulaw 3.4.55 IDLE idle 0 0 3/1/0 NA 0 541/546
C542 004 01 g711ulaw 3.4.55 IDLE idle 0 0 3/1/1 NA 0 535/532
```

```
Raleigh3640A#
```

[Troubleshoot](#)

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

[Comandos de solução de problemas](#)

A [Output Interpreter Tool \(somente clientes registrados\)](#) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

Observação: antes de emitir comandos **debug**, consulte [Informações Importantes sobre Comandos Debug](#).

- **debug voip ccapi inout** — Rastreia o caminho de execução através da API (interface de programação de aplicativos) de controle de chamadas.
- **debug vpm all** — Permite a depuração em todas as áreas do módulo de porta de voz virtual (VPM).
- **show log** — Mostra a saída das depurações habilitadas.

Como os lados de Raleigh e San Jose são muito semelhantes em configuração e configuração, este documento mostra os comandos **debug voip ccapi inout** e **debug vpm all** somente para o

roteador San Jose.

Se o estabelecimento da chamada for um problema, emita os comandos **debug** listados nesta seção. Compare a saída com as informações aqui. Você pode usar softwares, como Comparar ou Além de Comparar, para comparar os dois arquivos de texto e encontrar as diferenças. A saída aqui serve como referência para uma chamada bem-sucedida.

Primeiro, determine o que ocorre no roteador durante a chamada. Emita os comandos **debug voip ccapi inout** e **debug vpm all**. A saída da emissão do comando **show debug**, conforme exibido aqui, mostra a ativação do comando **debug vpm all** no roteador San Jose. Você pode determinar a ativação do comando **debug vpm all** porque a saída mostra quatro comandos de depuração habilitados, além do comando **debug voip ccapi inout**. Esses quatro comandos têm ativação automática quando você emite o comando **debug vpm all**.

Cuidado: você deve desativar esses comandos **debug** depois de gerar a saída necessária. Desative os comandos **debug** com a emissão do comando **undebug all**. Se você deixar a ativação de depuração, poderá enfrentar problemas de desempenho do roteador. Comandos de depuração com ativação consomem recursos da CPU.

```
SanJose3640A# show debug
voip:
voip ccAPI function enter/exit debugging is on
Voice Port Module session debugging is on
Voice Port Module DSP message debugging is on
Voice Port Module error debugging is on
Voice Port Module signaling debugging is on
Voice Port Module voaal2 debugging is on
Voice Port Module trunk conditioning is on
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#! Call from 1001 to 2001
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#
*Mar 1 00:05:07.675: htsp_dsp_message: SEND/RESP_SIG_STATUS: state=0xC timestamp=33146
systemtime=30767
*Mar 1 00:05:07.679: htsp_process_event: [3/0/0, FXSLS_ONHOOK, E_DSP_SIG_
1100] fxsls_onhook_offhook htsp_setup_ind
*Mar 1 00:05:07.679: [3/0/0] get_local_station_id calling num= calling name= calling
time=00/00 00:00
*Mar 1 00:05:07.679: cc_api_call_setup_ind (vdbPtr=0x6217C270, callInfo={called=,called_
oct3=0x81,calling=,calling_oct3=0x0,calling_oct3a=0x0,calling_xlated=false,
subscriber_type_str=RegularLine,fdest=0,peer_tag=2, prog_ind=3,callingIE_present 0},
callID=0x61DAB4F4)
*Mar 1 00:05:07.679: cc_api_call_setup_ind calling number is null, answer addr dest
pattern 1001 e164_ans_addr 0 e164_dest_pattern 1
*Mar 1 00:05:07.679: cc_api_call_setup_ind valid dest pattern, copying 1001 to calling
number
*Mar 1 00:05:07.679: cc_api_call_setup_ind type 3 , prot 0
*Mar 1 00:05:07.683: cc_process_call_setup_ind (event=0x62107860)
*Mar 1 00:05:07.683: >>>>CCAPI handed cid 5 with tag 2 to app "DEFAULT"
*Mar 1 00:05:07.683: sess_appl: ev(24=CC_EV_CALL_SETUP_IND), cid(5), disp(0)
*Mar 1 00:05:07.683: sess_appl: ev(SSA_EV_CALL_SETUP_IND), cid(5), disp(0)
*Mar 1 00:05:07.683: ssaCallSetupInd
*Mar 1 00:05:07.683: ccCallSetContext (callID=0x5, context=0x620005E8)
*Mar 1 00:05:07.683: ssaCallSetupInd cid(5), st(SSA_CS_MAPPING),oldst(0),
```

ev(24)ev->e.evCallSetupInd.nCallInfo.finalDestFlag = 0
*Mar 1 00:05:07.683: ccCallSetupAck (callID=0x5)
*Mar 1 00:05:07.683: ccCallReportDigits (callID=0x5, enable=0x1)
*Mar 1 00:05:07.683: cc_api_call_report_digits_done (vdbPtr=0x6217C270, callID=0x5, disp=0)
*Mar 1 00:05:07.683: sess_appl: ev(53=CC_EV_CALL_REPORT_DIGITS_DONE), cid(5), disp(0)
*Mar 1 00:05:07.683: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_CALL_REPORT_DIGITS_DONE)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:07.683: ssaReportDigitsDone cid(5) peer list: (empty)
*Mar 1 00:05:07.683: ssaReportDigitsDone callid=5 Enable succeeded
*Mar 1 00:05:07.687: ccGenerateTone (callID=0x5 tone=8)
*Mar 1 00:05:07.687: dsp_digit_collect_on: [3/0/0] packet_len=20 channel_id=128 packet_id=35 min_inter_delay=240 max_inter_delay=9760 mim_make_time=10 max_make_time=100 min_brake_time=10 max_brake_time=100
*Mar 1 00:05:07.687: dsp_soutput: [3/0/0]
*Mar 1 00:05:07.687: dsp_digit_collect_on: [3/0/0] packet_len=20 channel_id=128 packet_id=35 min_inter_delay=240 max_inter_delay=9760 mim_make_time=10 max_make_time=100 min_brake_time=10 max_brake_time=100
*Mar 1 00:05:07.687: dsp_soutput: [3/0/0]
*Mar 1 00:05:07.687: htsp_process_event: [3/0/0, FXSLS_WAIT_SETUP_ACK, E_HTSP_SETUP_ACK]
*Mar 1 00:05:09.455: cc_api_call_digit_begin (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF, srcCallId=0x5, digit=2, digit_begin_flags=0x1, rtp_timestamp=0xEB32A6E0 rtp_expiration=0x0, dest_mask=0x1)
*Mar 1 00:05:09.455: sess_appl: ev(10=CC_EV_CALL_DIGIT_BEGIN), cid(5), disp(0)
*Mar 1 00:05:09.455: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_DIGIT_BEGIN)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:09.455: ssaIgnore cid(5), st(SSA_CS_MAPPING),oldst(0), ev(10)
*Mar 1 00:05:09.515: cc_api_call_digit_end (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF, srcCallId=0x5, digit=2, duration=95, xruleCallingTag=0, xruleCalledTag=0, dest_mask=0x1), digit_tone_mode=0
*Mar 1 00:05:09.515: sess_appl: ev(9=CC_EV_CALL_DIGIT_END), cid(5), disp(0)
*Mar 1 00:05:09.515: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_CALL_DIGIT)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:09.515: ssaDigit
*Mar 1 00:05:09.515: ssaDigit, 0. sct->digit , sct->digit len 0, usrDigit 2, digit_tone_mode=0
*Mar 1 00:05:09.515: ssaDigit,1. callinfo.called , digit 2, callinfo.calling 1001, xrulecallingtag 0, xrulecalledtag 0
*Mar 1 00:05:09.515: ssaDigit, 7. callinfo.calling 1001, sct->digit 2, result 1
*Mar 1 00:05:09.635: cc_api_call_digit_begin (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF, srcCallId=0x5, digit=0, digit_begin_flags=0x1, rtp_timestamp=0xEB32A6E0 rtp_expiration=0x0, dest_mask=0x1)
*Mar 1 00:05:09.635: sess_appl: ev(10=CC_EV_CALL_DIGIT_BEGIN), cid(5), disp(0)
*Mar 1 00:05:09.635: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_DIGIT_BEGIN)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:09.635: ssaIgnore cid(5), st(SSA_CS_MAPPING),oldst(0), ev(10)
*Mar 1 00:05:09.695: cc_api_call_digit_end (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF, srcCallId=0x5, digit=0, duration=95, xruleCallingTag=0, xruleCalledTag=0, dest_mask=0x1), digit_tone_mode=0
*Mar 1 00:05:09.695: sess_appl: ev(9=CC_EV_CALL_DIGIT_END), cid(5), disp(0)
*Mar 1 00:05:09.695: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_CALL_DIGIT)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:09.695: ssaDigit
*Mar 1 00:05:09.695: ssaDigit, 0. sct->digit 2, sct->digit len 1, usrDigit 0, digit_tone_mode=0
*Mar 1 00:05:09.695: ssaDigit,1. callinfo.called , digit 20, callinfo.calling 1001, xrulecallingtag 0, xrulecalledtag 0
*Mar 1 00:05:09.695: ssaDigit, 7. callinfo.calling 1001, sct->digit 20, result 1
*Mar 1 00:05:09.815: cc_api_call_digit_begin (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF, srcCallId=0x5, digit=0, digit_begin_flags=0x1, rtp_timestamp=0xEB32A6E0 rtp_expiration=0x0, dest_mask=0x1)
*Mar 1 00:05:09.815: sess_appl: ev(10=CC_EV_CALL_DIGIT_BEGIN), cid(5), disp(0)
*Mar 1 00:05:09.815: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_DIGIT_BEGIN)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)

*Mar 1 00:05:09.815: ssaIgnore cid(5), st(SSA_CS_MAPPING),oldst(0), ev(10)
*Mar 1 00:05:09.875: cc_api_call_digit_end (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF,
srcCallId=0x5,digit=0,duration=95,xruleCallingTag=0,xruleCalledTag=0, dest_mask=0x1),
digit_tone_mode=0
*Mar 1 00:05:09.875: sess_appl: ev(9=CC_EV_CALL_DIGIT_END), cid(5), disp(0)
*Mar 1 00:05:09.875: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_CALL_DIGIT)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:09.875: ssaDigit
*Mar 1 00:05:09.875: ssaDigit, 0. sct->digit 20, sct->digit len 2, usrDigit 0,
digit_tone_mode=0
*Mar 1 00:05:09.875: ssaDigit,1. callinfo.called , digit 200, callinfo.calling 1001,
xrulecallingtag 0, xrulecalledtag 0
*Mar 1 00:05:09.875: ssaDigit, 7. callinfo.calling 1001, sct->digit 200, result 1
*Mar 1 00:05:09.995: cc_api_call_digit_begin (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF,
srcCallId=0x5, digit=1, digit_begin_flags=0x1, rtp_timestamp=0xEB32A6E0
rtp_expiration=0x0, dest_mask=0x1)
*Mar 1 00:05:09.995: sess_appl: ev(10=CC_EV_CALL_DIGIT_BEGIN), cid(5), disp(0)
*Mar 1 00:05:09.995: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_DIGIT_BEGIN)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:09.995: ssaIgnore cid(5), st(SSA_CS_MAPPING),oldst(0), ev(10)
*Mar 1 00:05:10.055: cc_api_call_digit_end (dstVdbPtr=0x0, dstCallId=0xFFFFFFFF,
srcCallId=0x5,digit=1,duration=95,xruleCallingTag=0,xruleCalledTag=0, dest_mask=0x1),
digit_tone_mode=0
*Mar 1 00:05:10.055: sess_appl: ev(9=CC_EV_CALL_DIGIT_END), cid(5), disp(0)
*Mar 1 00:05:10.055: cid(5)st(SSA_CS_MAPPING)ev(SSA_EV_CALL_DIGIT)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:10.055: ssaDigit
*Mar 1 00:05:10.055: ssaDigit, 0. sct->digit 200, sct->digit len 3, usrDigit 1,
digit_tone_mode=0
*Mar 1 00:05:10.055: ssaDigit,1. callinfo.called , digit 2001, callinfo.calling 1001,
xrulecallingtag 0, xrulecalledtag 0
*Mar 1 00:05:10.055: ssaDigit, 7. callinfo.calling 1001, sct->digit 2001, result 0
*Mar 1 00:05:10.055: ccCallReportDigits (callID=0x5, enable=0x0)
*Mar 1 00:05:10.055: cc_api_call_report_digits_done (vdbPtr=0x6217C270, callID=0x5,
disp=0)
*Mar 1 00:05:10.055: ssaSetupPeer cid(5) peer list: tag(1) called number (2001)
*Mar 1 00:05:10.055: ssaSetupPeer cid(5), destPat(2001), matched(1), prefix(),
peer(622FB888), peer->encapType (2)
*Mar 1 00:05:10.055: ccCallProceeding (callID=0x5, prog_ind=0x0)
*Mar 1 00:05:10.059: ccCallSetupRequest (Inbound call = 0x5, outbound peer =1, dest=,
params=0x621129C8 mode=0, *callID=0x6
2112D38, prog_ind = 3) callingIE_present 0
*Mar 1 00:05:10.059: ccCallSetupRequest numbering_type 0x81
*Mar 1 00:05:10.059: ccCallSetupRequest encapType 2 clid_restrict_disable 1 null_orig_clg
1 clid_transparent 0 callingNumber 1001
*Mar 1 00:05:10.059: dest pattern 2..., called 2001, digit_strip 0
*Mar 1 00:05:10.059: callingNumber=1001, calledNumber=2001, redirectNumber= display_info=
calling_oct3a=0
*Mar 1 00:05:10.059: accountNumber=, finalDestFlag=0,
guid=3f30.bbbe.14ef.11cc.8008.fdb1.2d0c.c4a5
*Mar 1 00:05:10.059: peer_tag=1
***Mar 1 00:05:10.059: ccIFCallSetupRequestPrivate: (vdbPtr=0x620BCAF0, dest=,
callParams={called=2001,called_oct3=0x81, calling=1001,calling_oct3=0x0, calling_xlated=
false, subscriber_type_str=RegularLine, fdest=0, voice_peer_tag=1},mode=0x0) vdbP
tr type = 1**
*Mar 1 00:05:10.059: ccIFCallSetupRequestPrivate: (vdbPtr=0x620BCAF0, dest=, callParams=
{called=2001, called_oct3 0x81, calling=1001,calling_oct3 0x0, calling_xlated=false,
fdest=0, voice_peer_tag=1}, mode=0x0, xltrc=-5)
*Mar 1 00:05:10.059: ccSaveDialpeerTag (callID=0x5, dialpeer_tag=0x1)
*Mar 1 00:05:10.059: ccCallSetContext (callID=0x6, context=0x61DAD8A0)
*Mar 1 00:05:10.059: sess_appl: ev(53=CC_EV_CALL_REPORT_DIGITS_DONE), cid(5), disp(0)
*Mar 1 00:05:10.059: cid(5)st(SSA_CS_CALL_SETTING)ev(SSA_EV_CALL_REPORT_DIGITS_DONE)
oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:10.059: -cid2(6)st2(SSA_CS_CALL_SETTING)oldst2(SSA_CS_MAPPING)

*Mar 1 00:05:10.059: ssaReportDigitsDone cid(5) peer list: (empty)
*Mar 1 00:05:10.059: ssaReportDigitsDone callid=5 Reporting disabled.
*Mar 1 00:05:10.063: dsp_digit_collect_off: [3/0/0] packet_len=8 channel_id=128 packet_id=36
*Mar 1 00:05:10.063: dsp_soutput: [3/0/0]
*Mar 1 00:05:10.063: htsp_process_event: [3/0/0, FXSLS_OFFHOOK, E_HTSP_PROCEEDING]
*Mar 1 00:05:10.095: cc_api_call_proceeding(vdbPtr=0x620BCAF0, callID=0x6, prog_ind=0x0)
*Mar 1 00:05:10.099: sess_appl: ev(21=CC_EV_CALL_PROCEEDING), cid(6), disp(0)
*Mar 1 00:05:10.099: cid(6)st(SSA_CS_CALL_SETTING)ev(SSA_EV_CALL_PROCEEDING)oldst(SSA_CS_MAPPING)cfid(-1)csize(0)in(0)fDest(0)
*Mar 1 00:05:10.099: -cid2(5)st2(SSA_CS_CALL_SETTING)oldst2(SSA_CS_CALL_SETTING)
*Mar 1 00:05:10.099: ssaCallProc
*Mar 1 00:05:10.099: ccGetDialpeerTag (callID=0x5)
*Mar 1 00:05:10.099: ssaIgnore cid(6), st(SSA_CS_CALL_SETTING),oldst(1), ev(21)
*Mar 1 00:05:10.103: cc_api_call_cut_progress(vdbPtr=0x620BCAF0, callID=0x6, prog_ind=0x8, sig_ind=0x1)
*Mar 1 00:05:10.103: sess_appl: ev(22=CC_EV_CALL_PROGRESS), cid(6), disp(0)
*Mar 1 00:05:10.107: cid(6)st(SSA_CS_CALL_SETTING)ev(SSA_EV_CALL_PROGRESS)oldst(SSA_CS_CALL_SETTING)cfid(-1)csize(0)in(0)fDest(0)
*Mar 1 00:05:10.107: -cid2(5)st2(SSA_CS_CALL_SETTING)oldst2(SSA_CS_CALL_SETTING)
*Mar 1 00:05:10.107: ssaCutProgress
*Mar 1 00:05:10.107: ccGetDialpeerTag (callID=0x5)
*Mar 1 00:05:10.107: ccCallCutProgress (callID=0x5, prog_ind=0x8, sig_ind=0x1)
*Mar 1 00:05:10.107: **ccConferenceCreate** (confID=0x6211310C, callID1=0x5, callID2=0x6, tag=0x0)
*Mar 1 00:05:10.107: cc_api_bridge_done (confID=0x3, srcIF=0x620BCAF0, srcCallID=0x6, dstCallID=0x5, disposition=0, tag=0x0)htsp_alert_notify
*Mar 1 00:05:10.107: cc_api_bridge_done (confID=0x3, srcIF=0x6217C270, srcCallID=0x5, dstCallID=0x6, disposition=0, tag=0x0)
*Mar 1 00:05:10.107: cc_api_caps_ind (dstVdbPtr=0x620BCAF0, dstCallId=0x6, srcCallId=0x5, caps={codec=0x2EBFB, fax_rate=0x7F, vad=0x3, modem=0x2 codec_bytes=0, signal_type=3})
*Mar 1 00:05:10.107: cc_api_caps_ind (Playout: mode 1, initial 60,min 40, max 200)
*Mar 1 00:05:10.111: cc_api_caps_ind (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2})
*Mar 1 00:05:10.111: cc_api_caps_ind (Playout: mode 1, initial 60,min 40, max 200)
*Mar 1 00:05:10.111: cc_api_caps_ack (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9062})
*Mar 1 00:05:10.111: cc_api_caps_ack (dstVdbPtr=0x620BCAF0, dstCallId=0x6, srcCallId=0x5, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9062})
*Mar 1 00:05:10.111: cc_api_voice_mode_event , callID=0x5
*Mar 1 00:05:10.111: Call Pointer =620005E8
*Mar 1 00:05:10.115: cc_api_caps_ind (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2})
*Mar 1 00:05:10.115: cc_api_caps_ind (Playout: mode 1, initial 60,min 40, max 200)
*Mar 1 00:05:10.115: cc_api_caps_ack (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9062})
*Mar 1 00:05:10.123: cc_api_caps_ack (dstVdbPtr=0x620BCAF0, dstCallId=0x6, srcCallId=0x5, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9062})
*Mar 1 00:05:10.123: cc_api_voice_mode_event , callID=0x5
*Mar 1 00:05:10.123: Call Pointer =620005E8
*Mar 1 00:05:10.123: htsp_process_event: [3/0/0, FXSLS_OFFHOOK, E_HTSP_VOICE_CUT_THROUGH]
*Mar 1 00:05:10.123: htsp_process_event: [3/0/0, FXSLS_OFFHOOK, E_HTSP_VOICE_CUT_THROUGH]
*Mar 1 00:05:10.123: sess_appl: ev(29=CC_EV_CONF_CREATE_DONE), cid(5), disp(0)
*Mar 1 00:05:10.123: cid(5)st(SSA_CS_CONFERENCE_PROGRESS)ev(SSA_EV_CONF_CREATE_DONE)oldst(SSA_CS_CALL_SETTING)cfid(3)csize(0)in(1)fDest(0)
*Mar 1 00:05:10.127: -cid2(6)st2(SSA_CS_CONFERENCE_PROGRESS)oldst2(SSA_CS_CALL_SETTING)
*Mar 1 00:05:10.127: ssaConfCreateDoneAlert
*Mar 1 00:05:10.127: sess_appl: ev(51=CC_EV_VOICE_MODE_DONE), cid(5), disp(0)
*Mar 1 00:05:10.127: cid(5)st(SSA_CS_CONFERENCE_ALERT)ev(SSA_EV_VOICE_MODE_DONE)

oldst(SSA_CS_CONFERENCING_PROGRESS)cfid(3)csize(0)in(1)fDest(0)

*Mar 1 00:05:10.127: -cid2(6)st2(SSA_CS_CONFERENCED_ALERT)oldst2(SSA_CS_CALL_SETTING)

*Mar 1 00:05:10.127: ssaIgnore cid(5), st(SSA_CS_CONFERENCED_ALERT),oldst(4), ev(51)

*Mar 1 00:05:10.127: sess_appl: ev(51=CC_EV_VOICE_MODE_DONE), cid(5), disp(2)

*Mar 1 00:05:10.127: cid(5)st(SSA_CS_CONFERENCED_ALERT)ev(SSA_EV_VOICE_MODE_DONE)

oldst(SSA_CS_CONFERENCED_ALERT)cfid(3)csize(0)in(1)fDest(0)

*Mar 1 00:05:10.127: -cid2(6)st2(SSA_CS_CONFERENCED_ALERT)oldst2(SSA_CS_CALL_SETTING)

*Mar 1 00:05:10.127: ssaIgnore cid(5), st(SSA_CS_CONFERENCED_ALERT),oldst(4), ev(51)

*Mar 1 00:05:10.127: cc_process_notify_bridge_done (event=0x6210BDB8)

*Mar 1 00:05:10.131: cc_api_caps_ind (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2})

*Mar 1 00:05:10.131: cc_api_caps_ind (Playout: mode 1, initial 60,min 40, max 200)

*Mar 1 00:05:10.131: cc_api_caps_ack (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9063})

*Mar 1 00:05:10.131: cc_api_caps_ind (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2})

*Mar 1 00:05:10.131: cc_api_caps_ind (Playout: mode 1, initial 60,min 40, max 200)

*Mar 1 00:05:10.131: cc_api_caps_ack (dstVdbPtr=0x6217C270, dstCallId=0x5, srcCallId=0x6, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9063})

*Mar 1 00:05:10.135: cc_api_caps_ack (dstVdbPtr=0x620BCAF0, dstCallId=0x6, srcCallId=0x5, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9063})

*Mar 1 00:05:10.135: cc_api_voice_mode_event , callID=0x5

*Mar 1 00:05:10.135: Call Pointer =620005E8

***Mar 1 00:05:10.135: cc_api_caps_ack (dstVdbPtr=0x620BCAF0, dstCallId=0x6, srcCallId=0x5, caps={codec=0x4, fax_rate=0x2, vad=0x1, modem=0x0 codec_bytes=20, signal_type=2, seq_num_start=9063})**

*Mar 1 00:05:10.135: cc_api_voice_mode_event , callID=0x5

*Mar 1 00:05:10.135: Call Pointer =620005E8

*Mar 1 00:05:10.135: htsp_process_event: [3/0/0, FXSLS_OFFHOOK, E_HTSP_VOICE_CUT_THROUGH]

*Mar 1 00:05:10.135: htsp_process_event: [3/0/0, FXSLS_OFFHOOK, E_HTSP_VOICE_CUT_THROUGH]

*Mar 1 00:05:10.135: sess_appl: ev(51=CC_EV_VOICE_MODE_DONE), cid(5), disp(0)

*Mar 1 00:05:10.135: cid(5)st(SSA_CS_CONFERENCED_ALERT)ev(SSA_EV_VOICE_MODE_DONE)

oldst(SSA_CS_CONFERENCED_ALERT)cfid(3)csize(0)in(1)fDest(0)

*Mar 1 00:05:10.135: -cid2(6)st2(SSA_CS_CONFERENCED_ALERT)oldst2(SSA_CS_CALL_SETTING)

*Mar 1 00:05:10.135: ssaIgnore cid(5), st(SSA_CS_CONFERENCED_ALERT),oldst(4), ev(51)

*Mar 1 00:05:10.135: sess_appl: ev(51=CC_EV_VOICE_MODE_DONE), cid(5), disp(0)

*Mar 1 00:05:10.135: cid(5)st(SSA_CS_CONFERENCED_ALERT)ev(SSA_EV_VOICE_MODE_DONE)

oldst(SSA_CS_CONFERENCED_ALERT)cfid(3)csize(0)in(1)fDest(0)

*Mar 1 00:05:10.139: -cid2(6)st2(SSA_CS_CONFERENCED_ALERT)oldst2(SSA_CS_CALL_SETTING)

*Mar 1 00:05:10.139: ssaIgnore cid(5), st(SSA_CS_CONFERENCED_ALERT),oldst(4), ev(51)

*Mar 1 00:05:18.303: cc_api_call_connected(vdbPtr=0x620BCAF0, callID=0x6), prog_ind = 2cc_api_call_connected: setting callEntry->connected to TRUE

*Mar 1 00:05:18.303: sess_appl: ev(8=CC_EV_CALL_CONNECTED), cid(6), disp(0)

*Mar 1 00:05:18.303: cid(6)st(SSA_CS_CONFERENCED_ALERT)ev(SSA_EV_CALL_CONNECTED)

oldst(SSA_CS_CALL_SETTING)cfid(3)csize(0)in(0)fDest(0)

*Mar 1 00:05:18.307: -cid2(5)st2(SSA_CS_CONFERENCED_ALERT)oldst2(SSA_CS_CONFERENCED_ALERT)

*Mar 1 00:05:18.307: ssaConnectAlert

*Mar 1 00:05:18.307: ccGetDialpeerTag (callID=0x5)

***Mar 1 00:05:18.307: ccCallConnect (callID=0x5), prog_ind = 2ccCallConnect: setting callEntry->connected to TRUE**

*Mar 1 00:05:18.307: ssaFlushPeerTagQueue cid(5) peer list: (empty)htsp_connect: no_offhook 0

*Mar 1 00:05:18.307: htsp_process_event: [3/0/0, FXSLS_OFFHOOK, E_HTSP_CONNECT]fxsلس_offhook_connect

*Mar 1 00:05:18.307: [3/0/0] set signal state = 0x6 timestamp = 0

*Mar 1 00:05:18.307: dsp_set_sig_state: [3/0/0] packet_len=12 channel_id=128 packet_id=39 state=0x6 timestamp=0x0

*Mar 1 00:05:18.307: dsp_soutput: [3/0/0]

SanJose3640A#

SanJose3640A#
SanJose3640A#
SanJose3640A#! call connected
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#! 1001 disconnecting the call
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#
SanJose3640A#
*Mar 1 00:05:57.019: htsp_dsp_message: SEND/RESP_SIG_STATUS: state=0x4 timestamp=16952
systime=35702
*Mar 1 00:05:57.019: htsp_process_event: [3/0/0, FXSLS_CONNECT, E_DSP_SIG_0100]fxspls_
offhook_onhook, HF duration=500
*Mar 1 00:05:57.023: htsp_timer - 500 msec
*Mar 1 00:05:57.523: htsp_process_event: [3/0/0, FXSLS_CONNECT, E_HTSP_EVENT_TIMER]fxspls_
connect_wait_release_req
*Mar 1 00:05:57.523: htsp_timer_stop
*Mar 1 00:05:57.523: cc_api_call_disconnected(vdbPtr=0x6217C270, callID=0x5, cause=0x10)
*Mar 1 00:05:57.523: sess_appl: ev(11=CC_EV_CALL_DISCONNECTED), cid(5), disp(0)
*Mar 1 00:05:57.523: cid(5)st(SSA_CS_ACTIVE)ev(SSA_EV_CALL_DISCONNECTED)
oldst(SSA_CS_CONFERENCED_ALERT)cfid(3)csize(0)in(1)fDest(0)
*Mar 1 00:05:57.523: -cid2(6)st2(SSA_CS_ACTIVE)oldst2(SSA_CS_CONFERENCED_ALERT)
*Mar 1 00:05:57.523: ssa: Disconnected cid(5) state(5) cause(0x10)
*Mar 1 00:05:57.523: ccConferenceDestroy (confID=0x3, tag=0x0)
*Mar 1 00:05:57.523: cc_api_bridge_drop_done (confID=0x3, srcIF=0x620BCAF0, srcCallID=0x6,
dstCallID=0x5, disposition=0 tag=0x0)
*Mar 1 00:05:57.523: cc_api_bridge_drop_done (confID=0x3, srcIF=0x6217C270, srcCallID=0x5,
dstCallID=0x6, disposition=0 tag=0x0)
*Mar 1 00:05:57.523: sess_appl: ev(30=CC_EV_CONF_DESTROY_DONE), cid(5), disp(0)
*Mar 1 00:05:57.523: cid(5)st(SSA_CS_CONF_DESTROYING)ev(SSA_EV_CONF_DESTROY_DONE)
oldst(SSA_CS_ACTIVE)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:57.527: -cid2(6)st2(SSA_CS_CONF_DESTROYING)oldst2(SSA_CS_CONFERENCED_ALERT)
*Mar 1 00:05:57.527: ssaConfDestroyDone
*Mar 1 00:05:57.527: ccCallDisconnect (callID=0x5, cause=0x10 tag=0x0)
*Mar 1 00:05:57.527: ccCallDisconnect: existing_cause = 0x0, **new_cause = 0x10**
*Mar 1 00:05:57.527: ccCallDisconnect (callID=0x6, cause=0x10 tag=0x0)
*Mar 1 00:05:57.527: ccCallDisconnect: existing_cause = 0x0, new_cause = 0x10htsp_release_
req: cause 16, no_onhook 0
*Mar 1 00:05:57.531: htsp_process_event: [3/0/0, FXSLS_WAIT_RELEASE_REQ,
E_HTSP_RELEASE_REQ] fxspls_waitrls_req_rls
*Mar 1 00:05:57.531: [3/0/0] set signal state = 0x4 timestamp = 0
*Mar 1 00:05:57.531: dsp_set_sig_state: [3/0/0] packet_len=12 channel_id=128 packet_id=39
state=0x4 timestamp=0x0
*Mar 1 00:05:57.531: dsp_soutput: [3/0/0]htsp_report_onhook_sig
*Mar 1 00:05:57.531: cc_api_call_feature: (vdbPtr=0x6217C270, callID=0x5,
feature_ind.type=5

*Mar 1 00:05:57.535: cc_api_call_disconnect_done(vdbPtr=0x6217C270, callID=0x5, disp=0,
tag=0x0)
*Mar 1 00:05:57.535: hdsprm_close_cleanup
*Mar 1 00:05:57.535: sess_appl: ev(28=CC_EV_CALL_FEATURE), cid(5), disp(0)
*Mar 1 00:05:57.535: cid(5)st(SSA_CS_DISCONNECTING)ev(SSA_EV_CALL_FEATURE)
oldst(SSA_CS_CONF_DESTROYING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:57.535: -cid2(6)st2(SSA_CS_DISCONNECTING)oldst2(SSA_CS_CONFERENCED_ALERT)
*Mar 1 00:05:57.535: ssaIgnore cid(5), st(SSA_CS_DISCONNECTING),oldst(7), ev(28)
*Mar 1 00:05:57.539: sess_appl: ev(12=CC_EV_CALL_DISCONNECT_DONE), cid(5), disp(0)
*Mar 1 00:05:57.539: cid(5)st(SSA_CS_DISCONNECTING)ev(SSA_EV_CALL_DISCONNECT_DONE)
oldst(SSA_CS_DISCONNECTING)cfid(-1)csize(0)in(1)fDest(0)
*Mar 1 00:05:57.539: -cid2(6)st2(SSA_CS_DISCONNECTING)oldst2(SSA_CS_CONFERENCED_ALERT)
*Mar 1 00:05:57.539: ssaDisconnectDone

```
*Mar 1 00:05:57.543: cc_api_icpif: expect factor = 0
*Mar 1 00:05:57.543: g113_calculate_impairment (delay=101,loss=0), Io=0 Iq=0 Idte=0 Idd=0
Ie=9 Itot=9
*Mar 1 00:05:57.543: cc_api_call_disconnect_done(vdbPtr=0x620BCAF0, callID=0x6, disp=0,
tag=0x0)
*Mar 1 00:05:57.547: sess_appl: ev(12=CC_EV_CALL_DISCONNECT_DONE), cid(6), disp(0)
*Mar 1 00:05:57.547: cid(6)st(SSA_CS_DISCONNECTING)ev(SSA_EV_CALL_DISCONNECT_DONE)
oldst(SSA_CS_CONFERENCED_ALERT)cfid(-1)csize(1)in(0)fDest(0)
*Mar 1 00:05:57.547: ssaDisconnectDone
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```

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[Informações Relacionadas](#)

- [Links de VoIP por PPP com qualidade de serviço \(LLQ / prioridade IP RTP, LFI, cRTP\)](#)
- [VoIP por Frame Relay com qualidade de serviço \(fragmentação, modelagem de tráfego, prioridade LLQ/IP RTP\)](#)
- [VoIP QoS para Frame Relay para Entrelaçamento de ATM com LLQ, PPP LFI e cRTP](#)
- [Entendendo os paridade de discagem e segmentos de chamada em plataformas Cisco IOS](#)
- [Conceitos Básicos de Troubleshooting e Depuração de Chamadas VoIP](#)
- [Suporte à Tecnologia de Voz](#)
- [Suporte aos produtos de Voz e Comunicação por IP](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte técnico e documentação](#)