

Gateway da entrada de PSTN IO ao fluxo de chamadas CVP (a fila do atendimento e recolhe)

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[Introdução](#)

O Cisco Customer Voice Porta (CVP) fornece aplicações inteligentes de resposta de voz interativa (IVR) que podem ser acessadas por telefone. Há três tipos de implementações CVP:

- Serviço autônomo
- Controle de chamadas CVP
- Chame a fila e recolha-a

Este documento descreve o fluxo de chamadas da perspectiva de H.323 baseado o gateway de ingresso IOS® em uma fila do atendimento e recolhe o desenvolvimento.

Na fila do atendimento e recolha o desenvolvimento, o CVP interage com o Intelligent Contact Management (ICM) para fazer decisões de roteamento de chamada. O ICM pede o CVP para fornecer o tratamento do Voice Response Unit (VRU) à chamada recebida para jogar alertas do menu e recolher dígitos para determinar o grupo de habilidades a ser selecionado. Quando o grupo de habilidades foi identificado e um agente do grupo de habilidades está disponível, o ICM pede o CVP para conectar a chamada recebida ao telefone IP do agente através do CallManager da Cisco. Se o agente não está disponível, os pedidos CVP ICM fornecer o tratamento da fila do atendimento (por exemplo jogue uma alerta da música-em-posse). O CVP fornece o VRU ou o tratamento da fila do atendimento usando um gateway VXML.

[Pré-requisitos](#)

Requisitos

Não há nenhuma exigência específica para este documento

Componentes Utilizados

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

- Gateway da entrada de PSTN IO: Cisco 2821, IO 12.4(15)T1
- Porteiro IO: Cisco 2651XM, IO 12.4(7f)
- Gateway IO VXML: Cisco AS5400XM, IO 12.4(15)T1
- Cisco exprime o portal: CVP 4.0
- CallManager da Cisco 5.1.2
- Server ASR/TTS: Nuance ASR v8.5 e TTS v4.0.6

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Convenções

Consulte as [Convenções de Dicas Técnicas da Cisco](#) para obter mais informações sobre convenções de documentos.

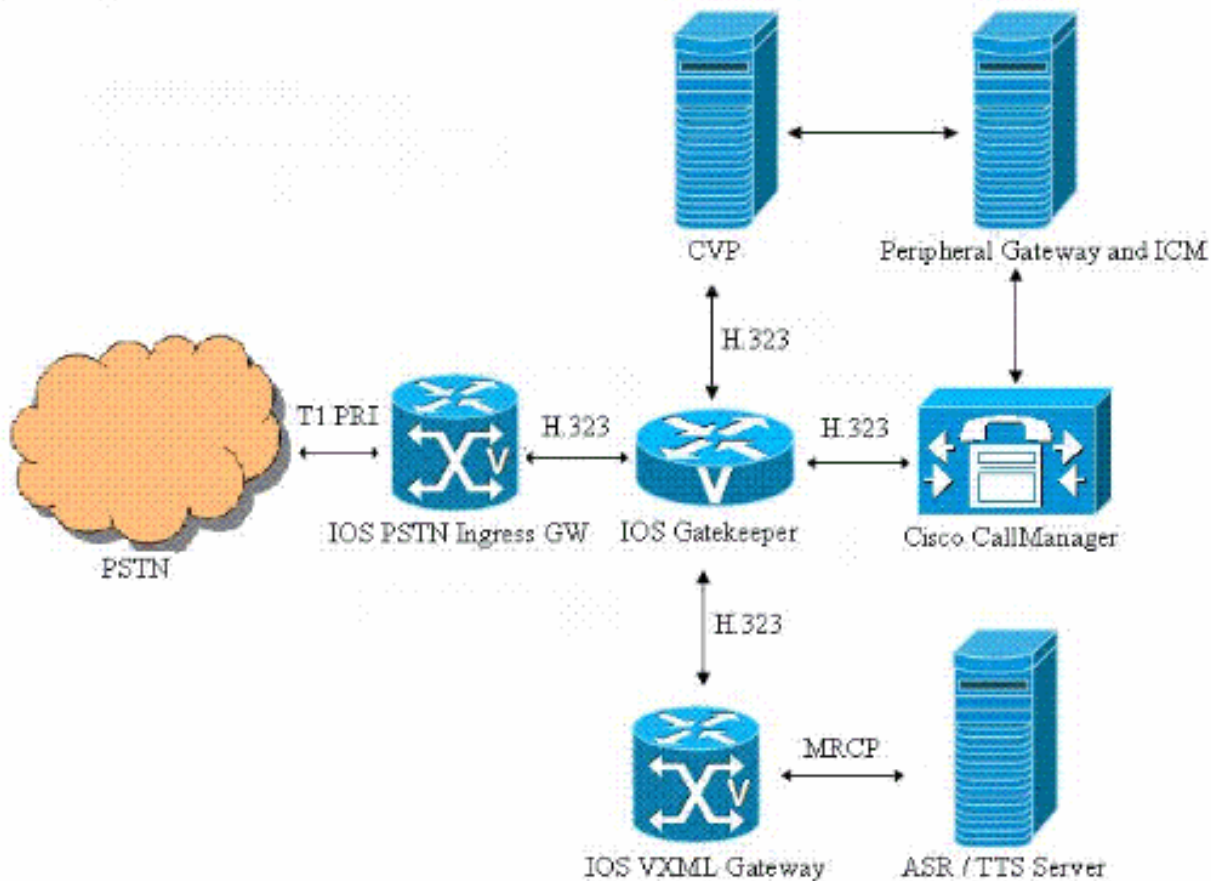
Configurar

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

Nota: Use a ferramenta [Command Lookup Tool](#) ([apenas para clientes registrados](#)) para obter mais informações sobre os comandos usados neste documento.

Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:



Configurações

Este documento utiliza as seguintes configurações:

- [Configuração de gateway de ingresso](#)
- [Configuração de gatekeeper](#)
- [Configuração de gateway VXML](#)

Configuração de gateway de ingresso

```
!--- Configure the IOS PSTN Ingress GW to register with
the IOS Gatekeeper. interface GigabitEthernet0/1 ip
address 14.50.201.11 255.255.255.0 h323-gateway voip
interface h323-gateway voip id IPCC-GW ipaddr
14.50.201.14 1719 h323-gateway voip h323-id PSTN-GW
h323-gateway voip bind srcaddr 14.50.201.11 !---
Configure the T1 PRI. controller T1 1/0/0 framing esf
linecode b8zs pri-group timeslots 1-24 !--- Configure
the ISDN switch type and incoming-voice under the D-
channel interface. interface Serial1/0/0:23 no ip
address encapsulation hdlc isdn switch-type primary-ni
isdn incoming-voice voice no cdp enable !--- Configure a
POTS dial-peer that will be used as inbound dial-peer
for calls !--- coming in across the T1 PRI line. dial-
peer voice 2 pots description PSTN PRI Circuit incoming
called-number . direct-inward-dial port 1/0/0:23 !---
Configure an outbound voip dial-peer to route calls to
```

```
the CVP. !--- Gateway sends ARQ to Gatekeeper for call
routing decision. dial-peer voice 1 voip description "To
IPCC" destination-pattern 800..... session target ras
tech-prefix 2# dtmf-relay rtp-nte codec g711ulaw no vad
```

Configuração de gatekeeper

```
!--- Configure the local zones and zone prefixes. In
this example, !--- VXML GW registers with Gatekeeper
with Tech-Prefix 1# !--- CVP registers with Gatekeeper
with Tech-Prefix 2# !--- CCM registers with CCM with
Tech-Prefix 3# !--- CVP handles calls with called number
in the 800555... range !--- CCM handles calls with called
numbers in the 75... range (agent dn range) !--- VXML
Gateway handles calls with called numbers starting with
8001112222 (network vru label) gatekeeper zone local
IPCC-GW cisco.com 14.50.201.14 zone local IPCC-VXML
cisco.com zone local IPCC-CCM cisco.com zone local IPCC-
CVP cisco.com zone prefix IPCC-CCM 75... zone prefix
IPCC-CVP 800555.... zone prefix IPCC-VXML 8001112222*
gw-type-prefix 1#* default-technology no shutdown!
```

Configuração de gateway VXML

```
!--- Define Hostname to IP Address mapping for ASR and
TTS servers. ip host asrtts-en-us 14.50.201.16 !---
Define the amount of maximum memory to used for
downloaded prompts. ivr prompt memory 15000 !--- Define
the RTSP URI of ASR and TTS Server. ivr asr-server
rtsp://asrtts-en-us/recognizer ivr tts-server
rtsp://asrtts-en-us/synthesizer !--- Configure an
application service for CVPError.tcl. application
service cvperror flash:cvperror.tcl paramspace english
language en paramspace english index 0 paramspace
english location flash paramspace english prefix en !---
Configure an application service for CVP bootstrap.vxml
and bootstrap.tcl. service new-call flash:bootstrap.vxml
paramspace english language en paramspace english index
0 paramspace english location flash paramspace english
prefix en ! service bootstrap flash:bootstrap.tcl
paramspace english language en paramspace english index
0 paramspace english location flash paramspace english
prefix en !--- Configure an application service for CVP
handoff.tcl. service handoff flash:handoff.tcl
paramspace english language en paramspace english index
0 paramspace english location flash paramspace english
prefix en !--- Specify that the Gateway's RTP stream to
the ASR / TTS to go around the !--- Content Service
Switch instead of through the CSS. mrcp client rtpsetup
enable !--- Specify the maximum memory size for the HTTP
Client Cache. http client cache memory pool 15000 !---
Specify the maximum number of file that can be stored in
the HTTP Client Cache. http client cache memory file 500
!--- Disable Persistent HTTP Connections. no http client
connection persistent !--- Configure the VXML GW to
register with the IOS Gatekeeper. interface
GigabitEthernet0/0 ip address 14.50.201.15 255.255.255.0
h323-gateway voip interface h323-gateway voip id IPCC-
VXML ipaddr 14.50.201.14 1719 h323-gateway voip h323-id
VXML-GW h323-gateway voip tech-prefix 1# h323-gateway
voip bind sraddr 14.50.201.15 !--- Configure an inbound
voip dial-peer to block calls with called number !---
starting with 987654. voice translation-rule 1 rule 1
/987654/ // ! ! voice translation-profile block
```

```
translate called 1 dial-peer voice 987654 voip
description Dial-peer needed for PM Micro-App
translation-profile incoming block incoming called-
number 987654 !--- Configure a VoIP dial-peer that will
be used as inbound dial-peer for calls coming !--- in
from CVP. The "bootstrap"service is applied under this
dial-peer. !--- The "800112222" in the destination-
pattern is the VRU label that is configured in ICM.
dial-peer voice 800 voip description ICM VRU Label
translation-profile incoming block service bootstrap
incoming called-number 800112222T dtmf-relay rtp-nte
h245-signal h245-alphanumeric codec g711ulaw no vad
```

Exemplo do fluxo de chamadas

Esta seção descreve o fluxo de chamadas esse resultados deste exemplo de configuração:

1. Uma chamada ISDN chega no gateway PSTN/VXML através do T1 PRI 1/0/0.
2. O Gateway de IOS combina o POTS dial peer 2 como o dial peer de entrada para este atendimento.
3. O Gateway de IOS combina o VoIP dial-peer 1 como o dial peer de saída para este atendimento.
4. O Gateway de IOS prepends o tecnologia-prefixo "2#" ao número chamado e envia um ARQ ao porteiro.
5. O porteiro distribui o atendimento ao CVP.
6. O CVP responde que o atendimento e a conexão de mídia RTP estão estabelecidos entre o gateway de ingresso IO e o CVP.
7. O CVP informa o ICM sobre o atendimento novo.
8. O ICM executa o script associado com o número chamado deste atendimento.
9. O ICM pede o CVP para fornecer o tratamento VRU para jogar uma alerta do menu (Main_Welcome_Menu.wav) e para recolher dígitos para identificar o grupo de habilidades.1 para o TAC2 para vendasO ICM igualmente envia a etiqueta ICM (800112222) da rede VRU ao CVP.
10. O CVP envia um pedido ARQ (com destino = etiqueta da rede VRU) ao porteiro.
11. O porteiro fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway VXML na resposta ACF.
12. O CVP envia H225 Setup ao gateway VXML que estabelece então uma sessão VXML ao CVP. Refira interações do gateway estas URL para compreender o gateway VXML e o CVP, e VXML e do server ASR/TTS:[MRCPv1MRCPv2](#)
13. O CVP desliga sua conexão de mídia existente RTP ao gateway de ingresso enviando a H245 o TCS vazio.
14. O CVP estabelece uma conexão de mídia RTP entre o gateway de ingresso e o gateway VXML.
15. O chamador de PSTN incorpora o dígito "1" para selecionar o grupo de habilidades "TAC". O gateway de ingresso envia o DTMF através de RTP NTE ao gateway do gateway 16) VXML VXML relata os dígitos ao CVP através do VXML que relata então ao ICM.
16. O gateway VXML relata os dígitos ao CVP através do VXML que relata então ao ICM.
17. O ICM então encontra um agente disponível do skillgroup selecionado e pede o CVP para distribuir o atendimento ao agente enviando a etiqueta ICM (3#75001) do agente.
18. O CVP desliga a conexão de mídia existente RTP entre o gateway de ingresso e o gateway VXML.

19. O CVP envia um pedido ARQ (com destino = etiqueta do agente) ao porteiro.
20. O porteiro fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do CallManager da Cisco na resposta ACF.
21. O CVP envia H225 setup ao CallManager da Cisco que estabelece então um atendimento ao telefone IP do agente.
22. O CVP estabelece uma conexão de mídia RTP entre o gateway de ingresso e o telefone do agente.
23. O chamador de PSTN pendura acima o atendimento após ter terminado a conversa com o agente.
24. O gateway de ingresso desliga o atendimento ao CVP e informa o porteiro sobre a terminação de chamada.
25. O CVP desliga então o atendimento ao CCM.

Verificar

Use esta seção para confirmar que sua configuração trabalha corretamente no porteiro IO.

A [Output Interpreter Tool \(apenas para clientes registrados\)](#) (OIT) suporta determinados comandos show. Use a OIT para exibir uma análise da saída do comando show.

- **show gatekeeper endpoints** GATEKEEPER ENDPOINT REGISTRATION

```

=====
CallSignalAddr  Port  RASignalAddr  Port  Zone Name          Type  Flags
-----
14.50.201.11    1720  14.50.201.11  53981 IPCC-GW            VOIP-GW

  ENDPOINT-ID: 8527186C00000002  VERSION: 4  AGE: 32 secs  SupportsAnnexE: FALSE

  g_supp_protos: 0x00000050

  H323-ID: PSTN-GW

  Voice Capacity Max.=  Avail.=  Current.=  0

14.50.201.15    1720  14.50.201.15  62367 IPCC-VXML          VOIP-GW

  ENDPOINT-ID: 84DB194800000003  VERSION: 4  AGE: 27 secs  SupportsAnnexE: FALSE

  g_supp_protos: 0x00000050

  H323-ID: VXML-GW

  Voice Capacity Max.=  Avail.=  Current.=  0

172.18.110.75   1720  172.18.110.75  1719  IPCC-CVP           VOIP-GW

  ENDPOINT-ID: 84F5E78C00000001  VERSION: 5  AGE: 3 secs  SupportsAnnexE: FALSE

  g_supp_protos: 0x00000040

  H323-ID: CVP

```

Voice Capacity Max.= Avail.= Current.= 0

172.18.110.84 43843 172.18.110.84 49600 IPCC-CCM VOIP-GW

ENDPOINT-ID: 852A9F2C00000004 VERSION: 5 AGE: 27 secs SupportsAnnexE: FALSE

g_supp_protos: 0x00000050

H323-ID: CCM-GK-Trunk_1

Voice Capacity Max.= Avail.= Current.= 0

Total number of active registrations = 4

• **mostre o GW-tipo-prefixo do porteiro** GATEWAY TYPE PREFIX TABLE

=====

Prefix: 1#* (Default gateway-technology)

Zone IPCC-GW master gateway list:

14.50.201.11:1720 PSTN-GW

Zone IPCC-VXML master gateway list:

14.50.201.15:1720 VXML-GW

Prefix: 2#*

Zone IPCC-CVP master gateway list:

172.18.110.75:1720 CVP

Prefix: 3#*

Zone IPCC-CCM master gateway list:

172.18.110.84:43843 CCM-GK-Trunk_1

Use esta seção para confirmar que sua configuração trabalha corretamente no gateway da entrada de PSTN IO.

• **show call ative voice brief**

Call is connected to VXML Gateway 11E6 : 228 2061411860ms.1 +160 pid:2 Answer 9999 active dur 00:00:44 tx:1942/326256 rx:2221/354112 Tele 1/0/0:23 (228) [1/0/0.1] tx:44300/44300/0ms g711ulaw noise:-79 acom:7 i/0:-44/-18 dBm 11E6 : 229 2061411870ms.1 +130 pid:1 Originate 2#8005555555 active dur 00:00:44 tx:2215/1169571516 rx:1942/310720 IP 14.50.201.15:21134 SRTP: off rtt:0ms pl:35210/40ms lost:0/0/0 delay:55/55/65ms g711ulaw TextRelay: off media inactive detected:n media contrl rcvd:n/a timestamp:n/a long duration call detected:n long duration call duration:n/a timestamp:n/a Telephony call-legs: 1 SIP call-legs: 0 H323 call-legs: 1 Call agent controlled call-legs: 0 SCCP call-legs: 0 Multicast call-legs: 0 Media call-legs: 0 Total call-legs: 2 **Call is connected to Agent IP Phone** 11E6 : 228 2061411860ms.1 +160 pid:2 Answer 9999 active dur 00:01:06 tx:2848/478464 rx:3343/533632 Tele 1/0/0:23 (228) [1/0/0.1] tx:66730/66730/0ms g711ulaw noise:-54 acom:7 i/0:-44/-44 dBm 11E6 : 229 2061411870ms.1 +130 pid:1 Originate 2#8005555555 active dur 00:01:06 tx:3336/1169571516 rx:2848/455680 IP 14.50.202.26:17156 SRTP: off rtt:1ms pl:10290/0ms lost:0/0/0 delay:55/55/65ms g711ulaw TextRelay: off media inactive detected:n media contrl rcvd:n/a timestamp:n/a long duration call detected:n long duration call duration:n/a timestamp:n/a Telephony call-legs: 1 SIP call-legs: 0 H323 call-legs: 1 Call agent controlled call-legs: 0

Troubleshooting

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

Comandos para Troubleshooting

Configurar o Gateway de IOS para registrar debugs em seu logging buffer e desabilitam o "console de registro".

Estes são os comandos usados para configurar o gateway a fim armazenar debugs no logging buffer do gateway:

- **service timestamps debug datetime msec**
- **preste serviços de manutenção à sequência**
- **nenhum console de registro**
- **registrando 5000000 protegidos debugar**
- **cancela o log**

Estes são os comandos debug usados para pesquisar defeitos a configuração:

Nota: Consulte [Informações Importantes sobre Comandos de Depuração](#) antes de usar comandos debug.

- **debug isdn q931**
- **debug voip ccapi inout**
- **debugar ras**
- **debug h225 asn1**
- **debugar o asn1 h245**
- **debug cch323 h225**
- **debugar cch323 h245**
- **debugar o Nomeado-evento do nte da sessão do rtp do voip**

Saídas de depuração

Esta seção fornece resultados do debug para este fluxo de chamadas da amostra:

1. [Chamada recebida do PSTN a 800-555-5555](#)
2. [O gateway de ingresso combina o dial peer de entrada 2](#)
3. [O gateway de ingresso combina o dial peer de saída 1](#)
4. [O ingresso GW prepends o Tecnologia-prefixo "#2" e envia um pedido de admissão \(ARQ\) ao porteiro](#)
5. [O ingresso GW envia a chamada ISDN que continua no trecho de POTS](#)
6. [O ingresso GW recebe o Admission Confirm do GK. O endereço IP de destino é o endereço IP de Um ou Mais Servidores Cisco ICM NT do CVP \(172.18.110.75\)](#)
7. [O GW envia o mensagem setup de H225 FastStart ao CVP](#)
8. [O GW recebe o mensagem CONNECT de H225 do CVP](#)

9. [O GW envia o Information Request Response \(IRR\) ao porteiro](#)
10. [O GW estabelece a conexão de TCP H245 ao CVP e envia o grupo dos recursos de terminal \(TCS\) e a mensagem mestra da determinação do escravo ao CVP](#)
11. [O GW recebe a mensagem TCS e MSD do CVP](#)
12. [O ingresso GW envia TCS Ack e MSD Ack ao CVP](#)
13. [O ingresso GW recebe TCS e MSD ACK do CVP](#)
14. [Agora, o CVP reorienta a conexão de mídia ao gateway VXML. O ingresso GW recebe o TCS vazio do CVP](#)
15. [O ingresso GW fecha seu canal lógico enviando CloseLogicalChannel \(CLC\) ao CVP](#)
16. [O ingresso GW envia TCS ACK ao CVP](#)
17. [O ingresso GW envia a requisição de largura de banda ao porteiro a fim atualizar a largura de banda atual \(zero\) usada para o atendimento](#)
18. [O CVP fecha seu canal lógico enviando o CLC ao ingresso GW](#)
19. [O ingresso GW recebe o TCS e o MSD do CVP. Este TCS fornece a informação sobre os recursos de terminal do gateway VXML](#)
20. [O ingresso GW envia seus TCS e MSD ao CVP](#)
21. [O ingresso GW envia MSD Ack e TCS Ack ao CVP](#)
22. [O ingresso GW envia o BRQ ao porteiro a fim atualizar a largura de banda atual usada para o atendimento \(os kbps \$2*64=128\$ \)](#)
23. [O ingresso GW envia o pedido OLC ao CVP](#)
24. [O ingresso GW recebe o OLC do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway VXML para a conexão RTCP](#)
25. [O ingresso GW envia a resposta OLC Ack ao CVP](#)
26. [O ingresso GW recebe OLC Ack do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway VXML para a conexão RTP. A conexão RTP entre o ingresso GW e VXML GW é estabelecida](#)
27. [O gateway detecta o dígito de DTMF "1" e envia-o através dos eventos baseados do relé DTMF RTP NTE \(RFC 2833\) ao VXML GW](#)
28. [Agora, o CVP reorienta o atendimento ao telefone IP do agente que respondeu ao atendimento. O ingresso GW recebe o TCS vazio](#)
29. Etapas 15 – 18 ocorrem (os resultados do debug não mostrados)
30. [O ingresso GW recebe o TCS e o MSD do CVP. Este TCS fornece a informação sobre os recursos de terminal do telefone IP](#)
31. Etapas 20 – 23 ocorrem (os resultados do debug não mostrados)
32. [O ingresso GW recebe o OLC do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do CallManager para a conexão RTCP](#)
33. [O GW envia a resposta OLC Ack ao CVP](#)
34. [O GW recebe OLC Ack do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do telefone IP do agente para a conexão RTP. A conexão RTP entre o ingresso GW e o telefone IP é estabelecida](#)
35. [Após ter terminado a conversação com o agente, o chamador de PSTN pendura acima o atendimento. O ingresso GW recebe a desconexão de ISDN do PSTN](#)
36. [O ingresso GW termina H323 chama o pé IP enviando o mensagem completa da liberação de H225 ao CVP](#)
37. [O GW envia DisengageRequest \(DRQ\) ao porteiro](#)
38. [A conexão H245 entre o GW e o CVP obtém fechado após a troca de comandos CLC e de EndSession](#)

Nota: Algumas das linhas na saída durante todo esta seção foram movidas para a segunda linha

devido às limitações do espaço.

Chamada recebida do PSTN a 800-555-5555

*Aug 17 17:21:15.777: ISDN Se1/0/0:23 Q931: RX <- SETUP pd = 8 callref = 0x0088

Bearer Capability i = 0x8090A2

Standard = CCITT

Transfer Capability = Speech

Transfer Mode = Circuit

Transfer Rate = 64 kbit/s

Channel ID i = 0xA98381

Exclusive, Channel 1

Progress Ind i = 0x8583 - Origination address is non-ISDN

Calling Party Number i = 0x0080, '9999'

Plan:Unknown, Type:Unknown

Called Party Number i = 0xA1, '8005555555'

Plan:ISDN, Type:National

*Aug 17 17:21:15.781: //-1/182F2991800A/CCAPI/cc_api_display_ie_subfields:

cc_api_call_setup_ind_common:

cisco-username=

----- ccCallInfo IE subfields -----

cisco-ani=9999

cisco-anitype=0

cisco-aniplan=0

cisco-anipi=0

cisco-anisi=0

dest=8005555555

cisco-desttype=2

cisco-destplan=1

cisco-rdie=FFFFFFFF

cisco-rdn=

cisco-rdntype=-1

cisco-rdnplan=-1

```
cisco-rdnpi=-1
cisco-rdnpi=-1
cisco-redirectreason=-1 fwd_final_type =0
final_redirectNumber =
hunt_group_timeout =0
```

[O gateway de ingresso combina o dial peer de entrada 2](#)

```
*Aug 17 17:21:15.781: //-1/182F2991800A/CCAPI/cc_api_call_setup_ind_common:
Interface=0x46964DF8, Call Info(
Calling Number=9999,(Calling Name=)(TON=Unknown, NPI=Unknown, Screening=Not Screened,
Presentation=Allowed),
Called Number=8005555555(TON=National, NPI=ISDN),
Calling Translated=FALSE, Subscriber Type Str=RegularLine, FinalDestinationFlag=TRUE,
Incoming Dial-peer=2, Progress Indication=ORIGINATING SIDE IS NON ISDN(3),
Calling IE Present=TRUE,
Source Trkgrp Route Label=, Target Trkgrp Route Label=, CLID Transparent=FALSE),
Call Id=-1
```

[O gateway de ingresso combina o dial peer de saída 1](#)

```
*Aug 17 17:21:15.793: //228/182F2991800A/CCAPI/ccIFCallSetupRequestPrivate:
Interface=0x46A5D878, Interface Type=1, Destination=, Mode=0x0,
Call Params(Calling Number=9999,(Calling Name=)(TON=Unknown, NPI=Unknown,
Screening=Not Screened, Presentation=Allowed),
Called Number=8005555555(TON=National, NPI=ISDN), Calling Translated=FALSE,
Subscriber Type Str=RegularLine, FinalDestinationFlag=TRUE, Outgoing Dial-peer=1,
Call Count On=FALSE,
Source Trkgrp Route Label=, Target Trkgrp Route Label=, tg_label_flag=0,
Application Call Id=)
```

[O ingresso GW prepends o Tecnologia-prefixo "#2" e envia um pedido de admissão \(ARQ\) ao porteiro](#)

```
*Aug 17 17:21:15.797: H225 NONSTD OUTGOING PDU ::=
```

```
value ARQnonStandardInfo ::=
```

```
{
sourceAlias
{
}
sourceExtAlias
```

```
{  
  
}  
  
callingOctet3a 128  
  
interfaceSpecificBillingId "ISDN 1/0/0:23"  
  
gtd '49414D2C0D0A50524E2C6973646E2A2C2C4E492A...'H  
  
ingressNetwork scn : NULL  
  
}
```

```
*Aug 17 17:21:15.797: H225 NONSTD OUTGOING ENCODE BUFFER ::= 80000010A901800E18495  
3444E20312F302F303A323380AC00A949414D2C0D0A50524E2C6973646E2A2C2C4E492A2A2A2C0D0A  
5553492C726174652C632C732C632C310D0A5553492C6C6179312C756C61770D0A544D522C30300D0  
A43504E2C30342C2C312C383030353535353535350D0A43474E2C30302C2C752C792C312C39393939  
0D0A4350432C30390D0A4643492C2C2C2C2C2C792C0D0A4743492C3138326632393931346331643  
1316463383030613030313765306162613833380D0A0D0A0100
```

```
*Aug 17 17:21:15.801:
```

```
*Aug 17 17:21:15.801: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= admissionRequest :
```

```
{  
  
    requestSeqNum 15287  
  
    callType pointToPoint : NULL  
  
    callModel direct : NULL  
  
    endpointIdentifier {"84B3CC1C00000004"}  
  
    destinationInfo  
  
    {  
  
        dialedDigits : "2#8005555555"  
  
    }  
  
    srcInfo  
  
    {  
  
        dialedDigits : "9999",  
  
        h323-ID : {"PSTN-GW"}  
  
    }  
  
}
```

```
bandWidth 1280

callReferenceValue 67

nonStandardData

{
  nonStandardIdentifier h221NonStandard :
  {
    t35CountryCode 181

    t35Extension 0

    manufacturerCode 18
  }

  data '80000010A901800E184953444E20312F302F303A...'H
}

conferenceID '182F29914C1D11DC800A0017E0ABA838'H

activeMC FALSE

answerCall FALSE

canMapAlias TRUE

callIdentifier

{
  guid '182FC5B94C1D11DC8298DF9092AE2C6A'H
}

willSupplyUUIEs FALSE
}
```

[O ingresso GW envia a chamada ISDN que continua no trecho de POTS](#)

```
*Aug 17 17:21:15.805: ISDN Se1/0/0:23 Q931: TX -> CALL_PROC pd = 8 callref = 0x8088

Channel ID i = 0xA98381

Exclusive, Channel 1
```

[O ingresso GW recebe o Admission Confirm do GK. O endereço IP de destino é o endereço IP de Um ou Mais Servidores Cisco ICM NT do CVP \(172.18.110.75\)](#)

```
*Aug 17 17:21:15.861: RAS INCOMING PDU ::=
```

```
value RasMessage ::= admissionConfirm :
{
```

```
requestSeqNum 15287

bandWidth 1280

callModel direct : NULL

destCallSignalAddress ipAddress :

{

  ip 'AC126E4B'H

  port 1720

}

irrFrequency 240

nonStandardData

{

  nonStandardIdentifier h221NonStandard :

  {

    t35CountryCode 181

    t35Extension 0

    manufacturerCode 18

  }

  data '00020180CCCC400B004100720075006E002D0050...'H

}

willRespondToIRR FALSE

uuiesRequested

{

  setup FALSE

  callProceeding FALSE

  connect FALSE

  alerting FALSE

  information FALSE

  releaseComplete FALSE

  facility FALSE

  progress FALSE

  empty FALSE

}
```

```
usageSpec
{
  {
    when
    {
      end NULL
      inIrr NULL
    }
    callStartingPoint
    {
      connect NULL
    }
    required
    {
      nonStandardUsageTypes
      {
      }
      startTime NULL
      endTime NULL
      terminationCause NULL
    }
  }
}
```

[O GW envia o mensagem setup de H225 FastStart ao CVP](#)

*Aug 17 17:21:15.865: H245 FS OLC OUTGOING PDU ::=

```
value OpenLogicalChannel ::=
{
  forwardLogicalChannelNumber 1
  forwardLogicalChannelParameters
```

```
{
  dataType audioData : g711Ulaw64k : 20
  multiplexParameters h2250LogicalChannelParameters :
  {
    sessionID 1
    mediaControlChannel unicastAddress : ipAddress :
    {
      network '0E32C90B'H
      tsapIdentifier 18491
    }
    silenceSuppression FALSE
  }
}
}
```

```
*Aug 17 17:21:15.869: H245 FS OLC OUTGOING ENCODE BUFFER ::=
0000000C6013800B050001000E32C90B483B00
```

```
*Aug 17 17:21:15.869:
```

```
*Aug 17 17:21:15.869: H245 FS OLC OUTGOING PDU ::=
```

```
value OpenLogicalChannel ::=
```

```
{
  forwardLogicalChannelNumber 1
  forwardLogicalChannelParameters
  {
    dataType nullData : NULL
    multiplexParameters none : NULL
  }
  reverseLogicalChannelParameters
  {
    dataType audioData : g711Ulaw64k : 20
```



```

multiplexParameters h2250LogicalChannelParameters :
{
  sessionID 1
  mediaChannel unicastAddress : ipAddress :
  {
    network '0E32C90B'H
    tsapIdentifier 18490
  }
  mediaControlChannel unicastAddress : ipAddress :
  {
    network '0E32C90B'H
    tsapIdentifier 18491
  }
  silenceSuppression FALSE
}
}
}

```

```

*Aug 17 17:21:15.869: H245 FS OLC OUTGOING ENCODE BUFFER ::=
400000060401004C60138012150001000E32C90B483A000E32C90B483B00

```

```

*Aug 17 17:21:15.869:

```

```

*Aug 17 17:21:15.869: //229/182F2991800A/H323/generic_send_setup:

```

```

generic_send_setup: is_overlap = 0, info_complete = 0

```

```

*Aug 17 17:21:15.869: //229/182F2991800A/H323/generic_send_setup: sending calling IE

```

```

*Aug 17 17:21:15.869: //229/182F2991800A/H323/generic_send_setup: ===== PI = 3

```

```

*Aug 17 17:21:15.869: //229/182F2991800A/H323/generic_send_setup: Send infoXCap=128,
infoXRate=16, rateMult=0, xMode=128, info_layer1_prot=163

```

```

*Aug 17 17:21:15.869: //229/182F2991800A/H323/generic_send_setup:
src address = 14.50.201.11; dest address = 172.18.110.75

```

```

*Aug 17 17:21:15.869: H225 NONSTD OUTGOING PDU ::=

```

```
value H323_UU_NonStdInfo ::=
```

```
{  
  version 2  
  protoParam qsigNonStdInfo :  
  {  
    iei 4  
    rawMesg '04038090A21803A983811E0285836C0600803939...'H  
  }  
  progIndParam progIndIEInfo :  
  {  
    progIndIE '00000003'H  
  }  
}
```

```
*Aug 17 17:21:15.873: H225 NONSTD OUTGOING ENCODE BUFFER ::= E001020001042304038090A21803  
A983811E0285836C060080393939700BA13830303535353535350A8006000400000003
```

```
*Aug 17 17:21:15.873:
```

```
*Aug 17 17:21:15.873: H225.0 OUTGOING PDU ::=
```

```
value H323_UserInformation ::=
```

```
{  
  h323-uu-pdu  
  {  
    h323-message-body setup :  
    {  
      protocolIdentifier { 0 0 8 2250 0 4 }  
      sourceAddress  
      {  
        h323-ID : {"PSTN-GW"}  
      }  
      sourceInfo
```

```
{
  vendor
  {
    vendor
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
  }
  gateway
  {
    protocol
    {
      voice :
      {
        supportedPrefixes
        {
          {
            prefix dialedDigits : "1#"
          }
        }
      },
      h323 :
      {
        supportedPrefixes
        {
          }
        }
      }
    }
  }
  mc FALSE
```

```
    undefinedNode FALSE
}

activeMC FALSE

conferenceID '182F29914C1D11DC800A0017E0ABA838'H

conferenceGoal create : NULL

callType pointToPoint : NULL

sourceCallSignalAddress ipAddress :
{
    ip '0E32C90B'H
    port 22143
}

callIdentifier
{
    guid '182FC5B94C1D11DC8298DF9092AE2C6A'H
}

fastStart
{
    '0000000C6013800B050001000E32C90B483B00'H,
    '400000060401004C60138012150001000E32C90B...'H
}

mediaWaitForConnect FALSE

canOverlapSend FALSE

multipleCalls TRUE

maintainConnection TRUE

symmetricOperationRequired NULL
}

h245Tunneling TRUE

nonStandardControl
{
    {
        nonStandardIdentifier h221NonStandard :
```

```
{
    t35CountryCode 181
    t35Extension 0
    manufacturerCode 18
}
data 'E001020001042304038090A21803A983811E0285...'H
}
}
}
}
```

O GW recebe o mensagem CONNECT de H225 do CVP

*Aug 17 17:21:15.913: H225.0 INCOMING PDU ::=

value H323_UserInformation ::=

```
{
    h323-uu-pdu
    {
        h323-message-body connect :
        {
            protocolIdentifier { 0 0 8 2250 0 5 }
            h245Address ipAddress :
            {
                ip 'AC126E4B'H
                port 19698
            }
            destinationInfo
            {
                gateway
                {
                    protocol
                    {
```

```
voice :
{
  supportedPrefixes
  {
    {
      prefix dialedDigits : "2#"
    }
  }
}
}
}
mc FALSE
undefinedNode FALSE
}
conferenceID '182F29914C1D11DC800A0017E0ABA838'H
callIdentifier
{
  guid '182FC5B94C1D11DC8298DF9092AE2C6A'H
}
fastStart
{
  '400080060401004C6013801215000100AC126E4B...'H,
  '0000000C6013801215000100AC126E4B406000AC...'H
}
multipleCalls FALSE
maintainConnection TRUE
presentationIndicator presentationAllowed : NULL
screeningIndicator 2
featureSet
{
  replacementFeatureSet FALSE
}
```

```
neededFeatures
{
}

desiredFeatures
{
}

supportedFeatures
{
}

}

h245Tunneling FALSE

}
```

```
*Aug 17 17:21:15.917: //-1/xxxxxxxxxxxx/H323/cch323_h225_receiver:
Received msg of type SETUPCFM_CHOSEN
```

```
*Aug 17 17:21:15.917: //229/182F2991800A/H323/setup_cfm_ind: ===== PI = 0
```

```
*Aug 17 17:21:15.917: //229/182F2991800A/H323/setup_cfm_ind:
Set new event H225_EV_FS_SETUP_CFM_IND
```

```
*Aug 17 17:21:15.917: //229/182F2991800A/H323/setup_cfm_ind:
Rcvd CONNECT Display Info IE = rtpmscvp
```

```
*Aug 17 17:21:15.917: //229/182F2991800A/H323/cch323_h225_receiver:
SETUPCFM_CHOSEN: src address = 14.50.201.11; dest address = 172.18.110.75
```

```
*Aug 17 17:21:15.917: //229/182F2991800A/H323/run_h225_sm:
Received event H225_EV_FS_SETUP_CFM_IND while at state H225_REQ_FS_SETUP
```

```
*Aug 17 17:21:15.917: //229/182F2991800A/H323/cch323_h225_set_new_state:
Changing from H225_REQ_FS_SETUP state to H225_FS_ACTIVE state
```

```
*Aug 17 17:21:15.917: H245 FS OLC INCOMING ENCODE BUFFER ::=
400080060401004C6013801215000100AC126E4B406000AC126E4B406100
```

```
*Aug 17 17:21:15.917:
```

```
*Aug 17 17:21:15.917: H245 FS OLC INCOMING PDU ::=
```

```
value OpenLogicalChannel ::=
```

```

{
  forwardLogicalChannelNumber 129
  forwardLogicalChannelParameters
  {
    dataType nullData : NULL
    multiplexParameters none : NULL
  }
  reverseLogicalChannelParameters
  {
    dataType audioData : g711Ulaw64k : 20
    multiplexParameters h2250LogicalChannelParameters :
    {
      sessionID 1
      mediaChannel unicastAddress : ipAddress :
      {
        network 'AC126E4B'H
        tsapIdentifier 16480
      }
      mediaControlChannel unicastAddress : ipAddress :
      {
        network 'AC126E4B'H
        tsapIdentifier 16481
      }
      silenceSuppression FALSE
    }
  }
}

```

```

*Aug 17 17:21:15.921: H245 FS OLC INCOMING ENCODE BUFFER::=
0000000C6013801215000100AC126E4B406000AC126E4B406100

```


*Aug 17 17:21:15.921:

*Aug 17 17:21:15.921: H245 FS OLC INCOMING PDU ::=

value OpenLogicalChannel ::=

```
{
  forwardLogicalChannelNumber 1
  forwardLogicalChannelParameters
  {
    dataType audioData : g711Ulaw64k : 20
    multiplexParameters h2250LogicalChannelParameters :
    {
      sessionID 1
      mediaChannel unicastAddress : ipAddress :
      {
        network 'AC126E4B'H
        tsapIdentifier 16480
      }
      mediaControlChannel unicastAddress : ipAddress :
      {
        network 'AC126E4B'H
        tsapIdentifier 16481
      }
      silenceSuppression FALSE
    }
  }
}
```

[O GW envia o Information Request Response \(IRR\) ao porteiro](#)

*Aug 17 17:21:15.925: H225 NONSTD OUTGOING PDU ::=

value IRRperCallnonStandardInfo ::=

```
{
  startTime 1187371275
```

}

*Aug 17 17:21:15.925: H225 NONSTD OUTGOING ENCODE BUFFER ::= 7046C5D90B

*Aug 17 17:21:15.925:

*Aug 17 17:21:15.925: RAS OUTGOING PDU ::=

value RasMessage ::= infoRequestResponse :

{

requestSeqNum 15288

endpointType

{

vendor

{

vendor

{

t35CountryCode 181

t35Extension 0

manufacturerCode 18

}

}

gateway

{

protocol

{

voice :

{

supportedPrefixes

{

{

```
        prefix dialedDigits : "1#"
    }
}
},          h323 :
{
    supportedPrefixes
    {
    }
}
}
}
mc FALSE
undefinedNode FALSE
}
endpointIdentifier {"84B3CC1C00000004"}
rasAddress ipAddress :
{
    ip '0E32C90B'H
    port 50363
}
callSignalAddress
{
    ipAddress :
    {
        ip '0E32C90B'H
        port 1720
    }
}
}
endpointAlias
{
    h323-ID : {"PSTN-GW"}
}
}
```

perCallInfo

```
{  
  
  {  
    nonStandardData  
    {  
      nonStandardIdentifier h221NonStandard :  
      {  
        t35CountryCode 181  
        t35Extension 0  
        manufacturerCode 18  
      }  
      data '7046C5D90B'H  
    }  
    callReferenceValue 67  
    conferenceID '182F29914C1D11DC800A0017E0ABA838'H  
    originator TRUE  
    h245  
    {  
    }  
    callSignaling  
    {  
    }  
    callType pointToPoint : NULL  
    bandwidth 1280  
    callModel direct : NULL  
    callIdentifier  
    {  
      guid '182FC5B94C1D11DC8298DF9092AE2C6A'H  
    }  
    substituteConfIDs  
    {
```

```

    }

    usageInformation

    {

        nonStandardUsageFields

        {

        }

        connectTime 1187371275

    }

}

}

needResponse FALSE

unsolicited TRUE

}

```

O GW estabelece a conexão de TCP H245 ao CVP e envia o grupo dos recursos de terminal (TCS) e a mensagem mestra da determinação do escravo ao CVP

*Aug 17 17:21:15.953: H245 MSC OUTGOING PDU ::=

```

value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :

{

    sequenceNumber 1

    protocolIdentifier { 0 0 8 245 0 7 }

    multiplexCapability h2250Capability :

    {

        maximumAudioDelayJitter 20

        receiveMultipointCapability

        {

            multicastCapability FALSE

            multiUniCastConference FALSE

            mediaDistributionCapability

            {

                {

```

```
        centralizedControl FALSE
        distributedControl FALSE
        centralizedAudio FALSE
        distributedAudio FALSE
        centralizedVideo FALSE
        distributedVideo FALSE
    }
}
}
transmitMultipointCapability
{
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
    {
        {
            centralizedControl FALSE
            distributedControl FALSE
            centralizedAudio FALSE
            distributedAudio FALSE
            centralizedVideo FALSE
            distributedVideo FALSE
        }
    }
}
receiveAndTransmitMultipointCapability
{
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
    {
```

```
{
    centralizedControl FALSE
    distributedControl FALSE
    centralizedAudio FALSE
    distributedAudio FALSE
    centralizedVideo FALSE
    distributedVideo FALSE
}
}
}
mcCapability
{
    centralizedConferenceMC FALSE
    decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
    h261aVideoPacketization FALSE
}
logicalChannelSwitchingCapability FALSE
t120DynamicPortCapability FALSE
}
capabilityTable
{
    {
        capabilityTableEntryNumber 34
        capability receiveRTPAudioTelephonyEventCapability :
        {
            dynamicRTPPayloadType 101
```

```
        audioTelephoneEvent "0-16"
    }
},
{
    capabilityTableEntryNumber 25
    capability receiveAndTransmitDataApplicationCapability :
    {
        application nonStandard :
        {
            nonStandardIdentifier h221NonStandard :
            {
                t35CountryCode 181
                t35Extension 0
                manufacturerCode 18
            }
            data '52747044746D6652656C6179'H
        }
        maxBitRate 0
    }
},
{
    capabilityTableEntryNumber 31
    capability receiveUserInputCapability : hookflash : NULL
},
{
    capabilityTableEntryNumber 30
    capability receiveUserInputCapability : dtmf : NULL
},
{
    capabilityTableEntryNumber 27
    capability receiveUserInputCapability : basicString : NULL
},
```



```
{
    capabilityTableEntryNumber 3
    capability receiveAudioCapability : g711Ulaw64k : 20
}
}
capabilityDescriptors
{
    {
        capabilityDescriptorNumber 1
        simultaneousCapabilities
        {
            {
                3
            },
            {
                34,
                30,
                27,
                25
            },
            {
                31
            }
        }
    }
}
}
```

```
*Aug 17 17:21:15.961: H245 MSC OUTGOING ENCODE BUFFER ::=
027001060008817500078013800014000100000100000100000CC0010
00100058000218A061404302D31368000184810B50000120C52747044
746D6652656C6179000080001E83015080001D83014080001A8301108
0000220C01300800102000002030021001D001A001800001E
```

```
*Aug 17 17:21:15.961:
```

```
*Aug 17 17:21:15.961: //229/182F2991800A/H323/h245_cap_out_set_new_state:
changing from IDLE state to AWAITING_RESPONSE state
```

```
*Aug 17 17:21:15.961: //229/182F2991800A/H323/cch323_run_h245_ms_sm:
Received event H245_EVENT_MSD while at state H245_MS_NONE
```

```
*Aug 17 17:21:15.961: H245 MSC OUTGOING PDU ::=
```

```
value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :
{
    terminalType 60
    statusDeterminationNumber 9348
}
```

[O GW recebe a mensagem TCS e MSD do CVP](#)

```
*Aug 17 17:21:15.965: H245 MSC INCOMING PDU ::=
```

```
value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :
{
    sequenceNumber 1
    protocolIdentifier { 0 0 8 245 0 11 }
    capabilityTable
    {
        {
            capabilityTableEntryNumber 1
            capability receiveAndTransmitAudioCapability : g711Ulaw64k : 20
        },
        {
            capabilityTableEntryNumber 2
```

```

    capability receiveAndTransmitUserInputCapability : basicString : NULL
},
{
    capabilityTableEntryNumber 3
    capability receiveAndTransmitUserInputCapability : dtmf : NULL
},
{
    capabilityTableEntryNumber 4
    capability receiveAndTransmitUserInputCapability : hookflash : NULL
},
{
    capabilityTableEntryNumber 5
    capability receiveAndTransmitUserInputCapability : iA5String : NULL
},
{
    capabilityTableEntryNumber 729
    capability receiveAndTransmitAudioCapability : g729 : 2
}
}
capabilityDescriptors
{
    {
        capabilityDescriptorNumber 1
        simultaneousCapabilities
        {
            {
                1,
                2,
                3,
                4,
            }
        }
    }
}

```

```
5,  
729  
},  
  
{  
1,  
729  
},  
  
{  
1  
}  
}  
}  
}  
}
```

*Aug 17 17:21:15.969: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :  
  
{  
  
terminalType 50  
  
statusDeterminationNumber 767617  
  
}
```

[O ingresso GW envia TCS Ack e MSD Ack ao CVP](#)

*Aug 17 17:21:15.969: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= response : terminalCapabilitySetAck :  
  
{  
  
sequenceNumber 1  
  
}
```

*Aug 17 17:21:15.969: //229/182F2991800A/H323/MSDetermination:
Am MASTER, ccb->h245.h245_mdStatus = 0x1

*Aug 17 17:21:15.969: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= response : masterSlaveDeterminationAck :  
  
  {  
  
    decision slave : NULL  
  
  }
```

O ingresso GW recebe TCS e MSD ACK do CVP

*Aug 17 17:21:15.973: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= response : terminalCapabilitySetAck :  
  
  {  
  
    sequenceNumber 1  
  
  }
```

*Aug 17 17:21:15.973: h245_decode_one_pdu: H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0

*Aug 17 17:21:15.973: h245_decode_one_pdu: Read Pkt body: more_pdus:0 rc:0 asn_rc:0

*Aug 17 17:21:15.973: //229/182F2991800A/H323/cch323_run_h245_cap_out_sm:
Received H245_EVENT_CAP_CFM while at state AWAITING_RESPONSE

*Aug 17 17:21:15.973: //229/182F2991800A/H323/h245_cap_out_set_new_state:
changing from AWAITING_RESPONSE state to IDLE state

*Aug 17 17:21:15.973: //229/182F2991800A/H323/run_h245_iwf_sm:
received IWF_EV_CAP_CFM while at state IWF_AWAIT_CAP_MSD_RESP

*Aug 17 17:21:15.977: //229/182F2991800A/H323/h245_iwf_set_new_state:
changing from IWF_AWAIT_CAP_MSD_RESP state to IWF_AWAIT_MSD_RESP state

*Aug 17 17:21:15.977: h323chan_chn_process_read_socket

*Aug 17 17:21:15.977: h323chan_chn_process_read_socket: fd=4 of type CONNECTED has data

*Aug 17 17:21:15.977: h323chan_chn_process_read_socket: h323chan accepted/connected fd=4

*Aug 17 17:21:15.977: h245_decode_one_pdu: more_pdus = 0, bytesLeftToDecode = 2

*Aug 17 17:21:15.977: H245 MSC INCOMING ENCODE BUFFER ::= 2080

*Aug 17 17:21:15.977:

*Aug 17 17:21:15.977: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= response : masterSlaveDeterminationAck :

```
{
    decision master : NULL
}
```

[Agora, o CVP reorienta a conexão de mídia ao gateway VXML. O ingresso GW recebe o TCS vazio do CVP](#)

*Aug 17 17:21:15.985: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :

```
{
    sequenceNumber 2
    protocolIdentifier { 0 0 8 245 0 11 }
}
```

[O ingresso GW fecha seu canal lógico enviando CloseLogicalChannel \(CLC\) ao CVP](#)

*Aug 17 17:21:15.985: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= request : closeLogicalChannel :

```
{
    forwardLogicalChannelNumber 1
    source user : NULL
}
```

[O ingresso GW envia TCS ACK ao CVP](#)

*Aug 17 17:21:15.985: H245 MSC OUTGOING ENCODE BUFFER ::= 0400000000

*Aug 17 17:21:15.985:

*Aug 17 17:21:15.985: //229/182F2991800A/H323/h245_olc_out_set_new_state:
Changing from H245_OLC_OUT_STATE_ESTABLISHED state to H245_OLC_OUT_STATE_IDLE state

*Aug 17 17:21:15.985: //229/182F2991800A/H323/h245_iwf_set_new_state:
changing from IWF_OLC_DONE state to IWF_OLC_IN_DONE state

*Aug 17 17:21:15.985: //229/182F2991800A/H323/cch323_run_h245_cap_in_sm:
Received H245_EVENT_CAP_RESP while at state AWAITING_RESPONSE

*Aug 17 17:21:15.985: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= response : terminalCapabilitySetAck :  
  
    {  
  
        sequenceNumber 2  
  
    }  
}
```

[O ingresso GW envia a requisição de largura de banda ao porteiro a fim atualizar a largura de banda atual \(zero\) usada para o atendimento](#)

```
*Aug 17 17:21:15.985: H245 MSC OUTGOING ENCODE BUFFER ::= 218002  
  
*Aug 17 17:21:15.985:  
  
*Aug 17 17:21:15.985: //229/182F2991800A/H323/h245_cap_in_set_new_state:  
changing from AWAITING_RESPONSE state to IDLE state  
  
*Aug 17 17:21:15.989: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= bandwidthRequest :  
  
    {  
  
        requestSeqNum 15289  
  
        endpointIdentifier {"84B3CC1C00000004"}  
  
        conferenceID '182F29914C1D11DC800A0017E0ABA838'H  
  
        callReferenceValue 67  
  
        bandwidth 0  
  
        callIdentifier  
  
        {  
  
            guid '182FC5B94C1D11DC8298DF9092AE2C6A'H  
  
        }  
  
        answeredCall FALSE  
  
    }  
}
```

[O CVP fecha seu canal lógico enviando o CLC ao ingresso GW](#)

```
*Aug 17 17:21:15.989: H245 MSC INCOMING PDU ::=
```



```
value MultimediaSystemControlMessage ::= request : closeLogicalChannel :  
  
    {  
  
        forwardLogicalChannelNumber 129  
  
        source user : NULL  
  
    }  
}
```

```
reason unknown : NULL
}
```

```
*Aug 17 17:21:15.989: h245_decode_one_pdu: H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0
*Aug 17 17:21:15.989: h245_decode_one_pdu: Read Pkt body: more_pdus:0 rc:0 asn_rc:0
*Aug 17 17:21:15.989: H245 MSC OUTGOING PDU ::=
```

```
value MultimediaSystemControlMessage ::= response : closeLogicalChannelAck :
{
    forwardLogicalChannelNumber 129
}
```

[O ingresso GW recebe o TCS e o MSD do CVP. Este TCS fornece a informação sobre os recursos de terminal do gateway VXML](#)

```
*Aug 17 17:21:16.129: H245 MSC INCOMING PDU ::=
```

```
value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :
{
    sequenceNumber 3
    protocolIdentifier { 0 0 8 245 0 11 }
    multiplexCapability h2250Capability :
    {
        maximumAudioDelayJitter 20
        receiveMultipointCapability
        {
            multicastCapability FALSE
            multiUniCastConference FALSE
            mediaDistributionCapability
            {
                {
```



```
        centralizedControl FALSE
        distributedControl FALSE
        centralizedAudio FALSE
        distributedAudio FALSE
        centralizedVideo FALSE
        distributedVideo FALSE
    }
}
}
transmitMultipointCapability
{
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
    {
        {
            centralizedControl FALSE
            distributedControl FALSE
            centralizedAudio FALSE
            distributedAudio FALSE
            centralizedVideo FALSE
            distributedVideo FALSE
        }
    }
}
receiveAndTransmitMultipointCapability
{
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
    {
```

```
{
    centralizedControl FALSE
    distributedControl FALSE
    centralizedAudio FALSE
    distributedAudio FALSE
    centralizedVideo FALSE
    distributedVideo FALSE
}
}
}
mcCapability
{
    centralizedConferenceMC FALSE
    decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
    h261aVideoPacketization FALSE
}
logicalChannelSwitchingCapability FALSE
t120DynamicPortCapability FALSE
}
capabilityTable
{
    {
        capabilityTableEntryNumber 34
        capability receiveRTPAudioTelephonyEventCapability :
        {
            dynamicRTPPayloadType 101
```

```
        audioTelephoneEvent "0-16"
    }
},
{
    capabilityTableEntryNumber 31
    capability receiveUserInputCapability : hookflash : NULL
},
{
    capabilityTableEntryNumber 30
    capability receiveUserInputCapability : dtmf : NULL
},
{
    capabilityTableEntryNumber 27
    capability receiveUserInputCapability : basicString : NULL
},
{
    capabilityTableEntryNumber 3
    capability receiveAudioCapability : g711Ulaw64k : 20
}
}
capabilityDescriptors
{
    {
        capabilityDescriptorNumber 1
        simultaneousCapabilities
        {
            {
                3
            },
        }
    }
},
```

```
{
  34,
  30,
  27
},

{
  31
}
}
}
}
}
```

[O ingresso GW envia seus TCS e MSD ao CVP](#)

*Aug 17 17:21:16.141: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :

```
{
  sequenceNumber 2
  protocolIdentifier { 0 0 8 245 0 7 }
  multiplexCapability h2250Capability :
  {
    maximumAudioDelayJitter 20
    receiveMultipointCapability
  {
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
  {
    {
      centralizedControl FALSE
```

```
        distributedControl FALSE
        centralizedAudio FALSE
        distributedAudio FALSE
        centralizedVideo FALSE
        distributedVideo FALSE
    }
}
}
transmitMultipointCapability
{
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
    {
        {
            centralizedControl FALSE
            distributedControl FALSE
            centralizedAudio FALSE
            distributedAudio FALSE
            centralizedVideo FALSE
            distributedVideo FALSE
        }
    }
}
receiveAndTransmitMultipointCapability
{
    multicastCapability FALSE
    multiUniCastConference FALSE
    mediaDistributionCapability
    {
```

```
{
    centralizedControl FALSE
    distributedControl FALSE
    centralizedAudio FALSE
    distributedAudio FALSE
    centralizedVideo FALSE
    distributedVideo FALSE
}
}
}
mcCapability
{
    centralizedConferenceMC FALSE
    decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
    h261aVideoPacketization FALSE
}
logicalChannelSwitchingCapability FALSE
t120DynamicPortCapability FALSE
}
capabilityTable
{
    {
        capabilityTableEntryNumber 34
        capability receiveRTPAudioTelephonyEventCapability :
        {
            dynamicRTPPayloadType 101
            audioTelephoneEvent "0-16"
```

```
    }
  },
  {
    capabilityTableEntryNumber 25
    capability receiveAndTransmitDataApplicationCapability :
    {
      application nonStandard :
      {
        nonStandardIdentifier h221NonStandard :
        {
          t35CountryCode 181
          t35Extension 0
          manufacturerCode 18
        }
        data '52747044746D6652656C6179'H
      }
      maxBitRate 0
    }
  },
  {
    capabilityTableEntryNumber 31
    capability receiveUserInputCapability : hookflash : NULL
  },
  {
    capabilityTableEntryNumber 30
    capability receiveUserInputCapability : dtmf : NULL
  },
  {
    capabilityTableEntryNumber 27
    capability receiveUserInputCapability : basicString : NULL
  },
  {
```

```
capabilityTableEntryNumber 3
    capability receiveAudioCapability : g711Ulaw64k : 20
}
}
capabilityDescriptors
{
    {
        capabilityDescriptorNumber 1
        simultaneousCapabilities
        {
            {
                3
            },
            {
                34,
                30,
                27,
                25
            },
            {
                31
            }
        }
    }
}
}
```


*Aug 17 17:21:16.149: H245 MSC OUTGOING ENCODE BUFFER::=
027002060008817500078013800014000100000100000100000CC0010
00100058000218A061404302D31368000184810B50000120C52747044
746D6652656C6179000080001E83015080001D83014080001A8301108
0000220C01300800102000002030021001D001A001800001E

*Aug 17 17:21:16.149:

*Aug 17 17:21:16.149: //229/182F2991800A/H323/h245_cap_out_set_new_state:
changing from IDLE state to AWAITING_RESPONSE state

*Aug 17 17:21:16.149: //229/182F2991800A/H323/cch323_run_h245_ms_sm:
Received event H245_EVENT_MSD while at state H245_MS_NONE

*Aug 17 17:21:16.149: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :

```
{  
    terminalType 60  
    statusDeterminationNumber 3855  
}
```

[O ingresso GW envia MSD Ack e TCS Ack ao CVP](#)

*Aug 17 17:21:16.153: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= response : masterSlaveDeterminationAck :

```
{  
    decision slave : NULL  
}
```

*Aug 17 17:21:16.153: H245 MSC OUTGOING ENCODE BUFFER::= 20A0

*Aug 17 17:21:16.153:

*Aug 17 17:21:16.153: //229/182F2991800A/H323/cch323_run_h245_ms_sm:
MS_Determine_indication to Appl: Sent MSD ACK!

*Aug 17 17:21:16.153: //229/182F2991800A/H323/h245_ms_set_new_state:
Changing from H245_MS_OUTGOING_WAIT state to H245_MS_INCOMING_WAIT state

*Aug 17 17:21:16.153: //229/182F2991800A/H323/run_h245_iwf_sm:
received IWF_EV_MSD_ACK_SENT while at state IWF_AWAIT_MSD_RESP

*Aug 17 17:21:16.153: //229/182F2991800A/H323/h245_iwf_common_msdsent:
Negotiated codecs and dtmf are initialised in ccb

*Aug 17 17:21:16.153: h323chan_chn_process_read_socket

*Aug 17 17:21:16.153: h323chan_chn_process_read_socket: fd=4 of type CONNECTED has data

*Aug 17 17:21:16.153: h323chan_chn_process_read_socket: h323chan accepted/connected fd=4

*Aug 17 17:21:16.153: h245_decode_one_pdu: more_pdus = 0, bytesLeftToDecode = 3

*Aug 17 17:21:16.153: H245 MSC INCOMING ENCODE BUFFER ::= 218002

*Aug 17 17:21:16.153:

*Aug 17 17:21:16.153: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= response : terminalCapabilitySetAck :

```
{  
    sequenceNumber 2  
}
```

[O ingresso GW envia o BRQ ao porteiro a fim atualizar a largura de banda atual usada para o atendimento \(os kbps 2*64=128\)](#)

*Aug 17 17:21:16.157: RAS OUTGOING PDU ::=

value RasMessage ::= bandwidthRequest :

```
{  
    requestSeqNum 15290  
    endpointIdentifier {"84B3CC1C00000004"}  
    conferenceID '182F29914C1D11DC800A0017E0ABA838'H  
    callReferenceValue 67  
    bandwidth 1280  
    callIdentifier  
    {  
        guid '182FC5B94C1D11DC8298DF9092AE2C6A'H  
    }  
    answeredCall FALSE  
}
```

*Aug 17 17:21:16.173: RAS INCOMING PDU ::=

```
value RasMessage ::= bandwidthConfirm :  
  
    {  
  
        requestSeqNum 15290  
  
        bandwidth 1280  
  
    }
```

[O ingresso GW envia o pedido OLC ao CVP](#)

*Aug 17 17:21:16.173: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= request : openLogicalChannel :  
  
    {  
  
        forwardLogicalChannelNumber 2  
  
        forwardLogicalChannelParameters  
  
        {  
  
            dataType audioData : g711Ulaw64k : 20  
  
            multiplexParameters h2250LogicalChannelParameters :  
  
            {  
  
                sessionID 1  
  
                mediaControlChannel unicastAddress : ipAddress :  
  
                {  
  
                    network '0E32C90B'H  
  
                    tsapIdentifier 18491  
  
                }  
  
                silenceSuppression FALSE  
  
            }  
  
        }  
  
    }
```

[O ingresso GW recebe o OLC do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway VXML para a conexão RTCP](#)

*Aug 17 17:21:16.177: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
```

```

{
  forwardLogicalChannelNumber 258
  forwardLogicalChannelParameters
  {
    dataType audioData : g711Ulaw64k : 20
    multiplexParameters h2250LogicalChannelParameters :
    {
      sessionID 1
      mediaControlChannel unicastAddress : ipAddress :
      {
        network '0E32C90F'H
        tsapIdentifier 21135
      }
    }
  }
}

```

[O GW envia a resposta OLC Ack ao CVP](#)

*Aug 17 17:21:16.181: H245 MSC OUTGOING PDU ::=

```

value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
  forwardLogicalChannelNumber 258
  forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
  {
    mediaChannel unicastAddress : ipAddress :
    {
      network '0E32C90B'H
      tsapIdentifier 18490
    }
    mediaControlChannel unicastAddress : ipAddress :
    {
      network '0E32C90B'H

```

```
    tsapIdentifier 18491
  }
  flowControlToZero FALSE
}
}
```

O GW recebe OLC Ack do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway VXML para a conexão RTP. A conexão RTP entre o ingresso GW e VXML GW é estabelecida

*Aug 17 17:21:16.185: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
  forwardLogicalChannelNumber 2
  forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
{
  sessionID 1
  mediaChannel unicastAddress : ipAddress :
{
  network '0E32C90F'H
  tsapIdentifier 21134
}
  mediaControlChannel unicastAddress : ipAddress :
{
  network '0E32C90F'H
  tsapIdentifier 21135
}
}
}
```

O gateway detecta o dígito de DTMF "1" e envia-o através dos eventos baseados do relé DMTF RTP NTE (RFC 2833) ao VXML GW

s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2543 timestamp 0x16EE0

Pt:101 Evt:1 Pkt:03 00 00 <Snd>>>

s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2544 timestamp 0x16EE0

Pt:101 Evt:1 Pkt:03 00 00 <Snd>>>
s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2545 timestamp 0x16EE0
Pt:101 Evt:1 Pkt:03 00 00 <Snd>>>
s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2546 timestamp 0x16EE0
Pt:101 Evt:1 Pkt:03 01 90 <Snd>>>
s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2547 timestamp 0x16EE0
Pt:101 Evt:1 Pkt:03 03 20 <Snd>>>
s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2548 timestamp 0x16EE0
Pt:101 Evt:1 Pkt:83 03 38 <Snd>>>
s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x2549 timestamp 0x16EE0
Pt:101 Evt:1 Pkt:83 03 38 <Snd>>>
s=DSP d=VoIP payload 0x65 ssrc 0x1D5E sequence 0x254A timestamp 0x16EE0
Pt:101 Evt:1 Pkt:83 03 38 <Snd>>>

[Agora, o CVP reorienta o atendimento ao telefone IP do agente que respondeu ao atendimento. O GW recebe o TCS vazio](#)

*Aug 17 17:22:05.349: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :  
  
  {  
  
    sequenceNumber 4  
  
    protocolIdentifier { 0 0 8 245 0 11 }  
  
  }
```

[O ingresso GW recebe o TCS e o MSD do CVP. Este TCS fornece a informação sobre os recursos de terminal do telefone IP](#)

*Aug 17 17:22:09.569: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :  
  
  {  
  
    sequenceNumber 5  
  
    protocolIdentifier { 0 0 8 245 0 11 }  
  
    multiplexCapability h2250Capability :  
  
    {
```

```
maximumAudioDelayJitter 60
receiveMultipointCapability
{
  multicastCapability FALSE
  multiUniCastConference FALSE
  mediaDistributionCapability
  {
    {
      centralizedControl FALSE
      distributedControl FALSE
      centralizedAudio FALSE
      distributedAudio FALSE
      centralizedVideo FALSE
      distributedVideo FALSE
    }
  }
}
transmitMultipointCapability
{
  multicastCapability FALSE
  multiUniCastConference FALSE
  mediaDistributionCapability
  {
    {
      centralizedControl FALSE
      distributedControl FALSE
      centralizedAudio FALSE
      distributedAudio FALSE
      centralizedVideo FALSE
      distributedVideo FALSE
    }
  }
}
```

```
    }
  }
}
receiveAndTransmitMultipointCapability
{
  multicastCapability FALSE
  multiUniCastConference FALSE
  mediaDistributionCapability
  {
    {
      centralizedControl FALSE
      distributedControl FALSE
      centralizedAudio FALSE
      distributedAudio FALSE
      centralizedVideo FALSE
      distributedVideo FALSE
    }
  }
}
mcCapability
{
  centralizedConferenceMC FALSE
  decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
  h261aVideoPacketization FALSE
}
logicalChannelSwitchingCapability FALSE
t120DynamicPortCapability FALSE
```



```
}  
  
capabilityTable  
  
{  
  
  {  
  
    capabilityTableEntryNumber 1  
  
    capability receiveAudioCapability : g711Ulaw64k : 40  
  
  },  
  
  {  
  
    capabilityTableEntryNumber 2  
  
    capability receiveAndTransmitUserInputCapability : dtmf : NULL  
  
  },  
  
  {  
  
    capabilityTableEntryNumber 3  
  
    capability receiveAndTransmitUserInputCapability : basicString : NULL  
  
  },  
  
  {  
  
    capabilityTableEntryNumber 44  
  
    capability receiveAndTransmitUserInputCapability : hookflash : NULL  
  
  }  
  
}  
  
capabilityDescriptors  
  
{  
  
  {  
  
    capabilityDescriptorNumber 0  
  
    simultaneousCapabilities  
  
    {  
  
      {  
  
        1  
  
      },  
  
    },  
  
  },  
  
}
```

```
{
  2,
  3
},

{
  44
}
}
}
}
}
```

*Aug 17 17:22:09.589: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :
{
  terminalType 50
  statusDeterminationNumber 767617
}
```

[O ingresso GW recebe o OLC do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do CallManager para a conexão RTCP](#)

*Aug 17 17:22:09.597: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
  forwardLogicalChannelNumber 259
  forwardLogicalChannelParameters
{
  dataType audioData : g711Ulaw64k : 20
  multiplexParameters h2250LogicalChannelParameters :
{
```

```

    sessionID 1

    mediaControlChannel unicastAddress : ipAddress :

    {

        network 'AC126E54'H

        tsapIdentifier 4001

    }

}

}

```

[O GW envia a resposta OLC Ack ao CVP](#)

*Aug 17 17:22:09.613: H245 MSC OUTGOING PDU ::=

```

value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :

{

    forwardLogicalChannelNumber 259

    forwardMultiplexAckParameters h2250LogicalChannelAckParameters :

    {

        mediaChannel unicastAddress : ipAddress :

        {

            network '0E32C90B'H

            tsapIdentifier 18490

        }

        mediaControlChannel unicastAddress : ipAddress :

        {

            network '0E32C90B'H

            tsapIdentifier 18491

        }

        flowControlToZero FALSE

    }

}

```

[O GW recebe OLC Ack do CVP. O CVP fornece o endereço IP de Um ou Mais Servidores Cisco ICM NT do telefone IP do agente para a conexão RTP. A conexão RTP entre o ingresso GW e o telefone IP é estabelecida](#)

*Aug 17 17:22:09.609: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
  forwardLogicalChannelNumber 3
  forwardLogicalChannelParameters
  {
    dataType audioData : g711Ulaw64k : 20
    multiplexParameters h2250LogicalChannelParameters :
    {
      sessionID 1
      mediaControlChannel unicastAddress : ipAddress :
      {
        network '0E32C90B'H
        tsapIdentifier 18491
      }
      silenceSuppression FALSE
    }
  }
}
```

*Aug 17 17:22:09.633: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
  forwardLogicalChannelNumber 3
  forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
  {
    sessionID 1
    mediaChannel unicastAddress : ipAddress :
    {
      network '0E32CA1A'H
    }
  }
}
```

```

    tsapIdentifier 17156
}

mediaControlChannel unicastAddress : ipAddress :

{
    network '0E32CA1A'H
    tsapIdentifier 17157
}
}
}
}

```

Após ter terminado a conversação com o agente, o chamador de PSTN pendura acima o atendimento. O ingresso GW recebe a desconexão de ISDN do PSTN

```
*Aug 17 17:22:56.329: ISDN Se1/0/0:23 Q931: RX <- DISCONNECT pd = 8 callref = 0x0088
```

```
    Cause i = 0x8290 - Normal call clearing
```

```
*Aug 17 17:22:56.329: %ISDN-6-DISCONNECT: Interface Serial1/0/0:0 disconnected from 9999 ,
call lasted 100 seconds
```

```
*Aug 17 17:22:56.333: ISDN Se1/0/0:23 Q931: TX -> RELEASE pd = 8 callref = 0x8088
```

```
*Aug 17 17:22:56.333: //228/182F2991800A/CCAPI/cc_api_call_disconnected:
```

```
    Cause Value=16, Interface=0x46964DF8, Call Id=228
```

```
*Aug 17 17:22:56.333: //228/182F2991800A/CCAPI/cc_api_call_disconnected:
```

```
    Call Entry(Responded=TRUE, Cause Value=16, Retry Count=0)
```

O ingresso GW termina H323 chama o pé IP enviando o mensagem completa da liberação de H225 ao CVP

```
*Aug 17 17:22:56.337: H225.0 OUTGOING PDU ::=
```

```
value H323_UserInformation ::=
```

```

{
    h323-uu-pdu
    {
        h323-message-body releaseComplete :
        {
            protocolIdentifier { 0 0 8 2250 0 4 }
            callIdentifier
            {

```

```
    guid '182FC5B94C1D11DC8298DF9092AE2C6A'H
  }
}
h245Tunneling FALSE
nonStandardControl
{
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '6001020001082C080282901C269E810003677464...'H
  }
}
tunnelledSignallingMessage
{
  tunnelledProtocolID
  {
    id tunnelledProtocolAlternateID :
    {
      protocolType "gtd"
    }
  }
  messageContent
  {
    '52454C2C0D0A50524E2C6973646E2A2C2C4E492A...'H
  }
  tunnellingRequired NULL
}
```

```
}
```

```
}
```

O GW envia DisengageRequest (DRQ) ao porteiro

```
*Aug 17 17:22:56.341: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= disengageRequest :
```

```
{
```

```
requestSeqNum 15295
```

```
endpointIdentifier {"84B3CC1C00000004"}
```

```
conferenceID '182F29914C1D11DC800A0017E0ABA838'H
```

```
callReferenceValue 67
```

```
disengageReason normalDrop : NULL
```

```
nonStandardData
```

```
{
```

```
nonStandardIdentifier h221NonStandard :
```

```
{
```

```
t35CountryCode 181
```

```
t35Extension 0
```

```
manufacturerCode 18
```

```
}
```

```
data '40001A52454C2C0D0A50524E2C6973646E2A2C2C...'H
```

```
}
```

```
callIdentifier
```

```
{
```

```
guid '182FC5B94C1D11DC8298DF9092AE2C6A'H
```

```
}
```

```
answeredCall FALSE
```

```
usageInformation
```

```
{
```

```
nonStandardUsageFields
```

```
{
```

```
{
  nonStandardIdentifier h221NonStandard :
  {
    t35CountryCode 181
    t35Extension 0
    manufacturerCode 18
  }
  data '4800'H
}
}
connectTime 1187371275
endTime 1187371375
}
terminationCause releaseCompleteCauseIE : '08028090'H
}
```

[A conexão H245 entre o GW e o CVP obtém fechado após a troca de comandos CLC e de EndSession](#)

*Aug 17 17:22:56.357: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= request : closeLogicalChannel :

```
{
  forwardLogicalChannelNumber 259
  source user : NULL
  reason unknown : NULL
}
```

*Aug 17 17:22:56.357: h245_decode_one_pdu: H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0

*Aug 17 17:22:56.357: h245_decode_one_pdu: Read Pkt body: more_pdus:0 rc:0 asn_rc:0

*Aug 17 17:22:56.357: H245 MSC OUTGOING PDU ::=


```
value MultimediaSystemControlMessage ::= response : closeLogicalChannelAck :  
  
    {  
  
        forwardLogicalChannelNumber 259  
  
    }  
  

```

*Aug 17 17:22:56.357: H245 MSC INCOMING PDU ::=

```
value MultimediaSystemControlMessage ::= command : endSessionCommand : disconnect : NULL
```

*Aug 17 17:22:56.357: h245_decode_one_pdu: H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0

*Aug 17 17:22:56.357: h245_decode_one_pdu: Read Pkt body: more_pdus:0 rc:0 asn_rc:0

*Aug 17 17:22:56.357: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= command : endSessionCommand : disconnect : NULL
```

[Informações Relacionadas](#)

- [Suporte à Tecnologia de Voz](#)
- [Suporte ao Produto de Voz e Comunicações Unificadas](#)
- [Troubleshooting da Telefonia IP Cisco](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)