

# Fluxo de chamadas video de H.323 através do CUBO e do gatekeeper Cisco

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## Introdução

O objetivo deste documento é fornecer a configuração e a informação de Troubleshooting para o vídeo de H.323 chama através do Cisco Unified Border Element (CUBO) e do gatekeeper Cisco.

### Detalhes da topologia de rede:

Há dois locais:

- Site-1 usa o gerente unificado Cisco de uma comunicação.
- Site-2 os usos Cisco unificaram o gerente de uma comunicação expresso (CME).

Cada local tem um CUBO e um porteiro coimplantados no mesmo dispositivo. O porteiro em Site-1 é configurado como um gatekeeper remoto em Site-2 e vice-versa. os atendimentos de Inter-local são distribuídos através do CUBO (por fluxo modo) situado em cada local. Cisco unificou o gerente e o CUBO de uma comunicação no tecnologia-prefixo #2 do uso do local 1. O CME e o CUBO no local 2 usam o tecnologia-prefixo #3.

As câmeras e o telefone IP da vantagem do uso VT dos usuários para fazer o áudio/vídeo chamam.

# Pré-requisitos

## Requisitos

Não existem requisitos específicos para este documento.

## Componentes Utilizados

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

- Cisco Unified CallManager — 6.1.1.3000-2
- CUBO e porteiro — Cisco IOS Software Release 12.4(15)T6
- CallManager da Cisco expresso — Cisco IOS Software Release 12.4(15)T6

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.

**Note:** 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:

- CUBO e configuração de gatekeeper em Site-1
- CUBO e configuração de gatekeeper em Site-2
- Configuração CME
- Cisco unificou a configuração de gerenciador de uma comunicação

### **CUBO e configuração de gatekeeper em Site-1**

```
!---Enable H.323 - H.323 call connections voice service
voip allow-connections h323 to h323 !--- Configure the
```

```

CUBE to register with the local Gatekeeper zone CCM-CUBE
!--- using tech-prefix 2# and CUBE-1 as the H323 ID
interface FastEthernet0/0 ip address 14.50.201.17
255.255.255.0 h323-gateway voip interface h323-gateway
voip id CCM-CUBE ipaddr 14.50.201.17 1719 h323-gateway
voip h323-id CUBE-1 h323-gateway voip tech-prefix 2#
h323-gateway voip bind srcaddr 14.50.201.17 ! !---
Configure dial-peers to route calls with called numbers
prefixed !--- with 2# and 3# dial-peer voice 919 voip
destination-pattern 2#T session target ras incoming
called-number . dtmf-relay h245-alphanumeric codec
g711ulaw no vad ! dial-peer voice 408 voip destination-
pattern 3#T session target ras dtmf-relay h245-
alphanumeric codec g711ulaw no vad !--- Configure local
zones CCM, CCM-CUBE and remote zone CME-CUBE !---
Configure a zone prefix to route 919* calls to CCM Zone
!--- Configure a hop-off prefix to route calls beginning
with 3# to remote zone CME-CUBE !--- Configure invia and
outvia parameters such that calls coming in / going out
CCM !--- zone are sent via the IP-IP Gateway registered
in CCM-CUBE zone !--- Configure invia and outvia
parameters such that calls coming in / going out of !---
remote CME-CUBE zone are sent via the IP-IP Gateway
registered in CCM-CUBE zone gatekeeper zone local CCM
cisco.com 14.50.201.17 invia CCM-CUBE outvia CCM-CUBE
zone local CCM-CUBE cisco.com zone remote CME-CUBE
cisco.com 14.1.123.95 1719 invia CCM-CUBE outvia CCM-
CUBE zone prefix CCM 919..... gw-type-prefix 3#*
hopoff CME-CUBE no shutdown !--- Enable H.323 VoIP
Gateway gateway

```

## CUBO e configuração de gatekeeper em Site-2

```

!---Enable H.323 - H.323 call connections voice service
voip allow-connections h323 to h323 !--- Configure the
CUBE to register with the local Gatekeeper zone CME-CUBE
!--- using tech-prefix 3# and CUBE-2 as the H323 ID
interface FastEthernet0/0 ip address 14.1.123.95
255.255.255.0 h323-gateway voip interface h323-gateway
voip id CME-CUBE ipaddr 14.1.123.95 1719 h323-gateway
voip h323-id CUBE-2 h323-gateway voip tech-prefix 3#
h323-gateway voip bind srcaddr 14.1.123.95 ! !---
Configure dial-peers to route calls with called numbers
prefixed with 2# and 3# !--- using the Gatekeeper dial-
peer voice 919 voip destination-pattern 2#T session
target ras incoming called-number . dtmf-relay h245-
alphanumeric codec g711ulaw no vad ! dial-peer voice 408
voip destination-pattern 3#T session target ras dtmf-
relay h245-alphanumeric codec g711ulaw no vad !---
Configure local zones CME, CME-CUBE and remote zone CCM-
CUBE !--- Configure a zone prefix to route 408* calls to
CME Zone !--- Configure a hop-off prefix to route calls
beginning with 2# to remote zone CCM-CUBE !--- Configure
invia and outvia parameters such that calls coming in /
going out !--- of CME zone are sent through the IP-IP
Gateway registered in CME-CUBE zone. !--- Configure
invia and outvia parameters such that calls coming in /
going out !--- of remote CCM-CUBE zone are sent via the
IP-IP Gateway registered in CME-CUBE zone gatekeeper
zone local CME cisco.com 14.1.123.95 invia CME-CUBE
outvia CME-CUBE zone local CME-CUBE cisco.com zone
remote CCM-CUBE cisco.com 14.50.201.17 1719 invia CME-

```

```
CUBE outvia CME-CUBE zone prefix CME 4085252... gw-type-  
prefix 2#* hopoff CCM-CUBE no shutdown ! !---Enable  
H.323 VoIP Gateway gateway
```

## Configuração CME

```
!--- Configure the CME to register with the Gatekeeper  
zone CME !--- using tech-prefix 3# and CME-1 as the H323  
ID interface GigabitEthernet0/0 ip address 14.1.103.74  
255.255.255.0 h323-gateway voip interface h323-gateway  
voip id CME ipaddr 14.1.123.95 1719 h323-gateway voip  
h323-id CME-1 h323-gateway voip tech-prefix 3# h323-  
gateway voip bind srcaddr 14.1.103.74 !--- Configure  
inbound dial-peer with a translation profile to strip 3#  
!--- in the called-number of incoming calls received by  
CME ! voice translation-rule 1 rule 1 /^3#\(.*$\)/ /\1/  
! ! voice translation-profile 1 translate called 1 !  
dial-peer voice 3 voip translation-profile incoming 1  
incoming called-number 3#. dtmf-relay h245-alphanumeric  
codec g711ulaw no vad ! !--- Configure outbound dial-  
peer to route calls to 919* via the Gatekeeper. !---  
Note that 2# is prefixed to the called number using the  
tech-prefix command dial-peer voice 919 voip  
destination-pattern 9193922000 session target ras tech-  
prefix 2# codec g711ulaw dtmf-relay h245-alphanumeric no  
vad !--- Enable H.323 VoIP Gateway gateway
```

## Cisco unificou a configuração de gerenciador de uma comunicação

Conclua estes passos:

1. Configurar um porteiro (dispositivo > porteiro) na página unificada Cisco da administração do gerenciador de uma comunicação.
2. Configurar um tronco H.225 controlado porteiro (tronco do → do dispositivo) na página da administração do gerenciador das comunicações unificadas de Cisco com parâmetros do nome, do tipo de terminal, do prefixo de tecnologia e da zona do porteiro.
3. Configurar uma rota padrão para distribuir atendimentos a 4085252000 através do tronco H.225 configurado em etapa 2. Note que o campo dos **dígitos do prefixo (chamadas feitas)** está ajustado a **3#**.
4. Configurar um teste padrão da tradução a fim descascar o **2#** em chamadas recebidas através do tronco de H225.

## Verificar

Use esta seção a fim confirmar corretamente seus trabalhos da configuração.

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.

## Gateway

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

Estes comandos show do porteiro foram recolhidos após a possibilidade debugam o gatekeeper principal 10:

- **Show gatekeeper endpointsGatekeeper-1**

```
GATEKEEPER ENDPOINT REGISTRATION
=====
CallSignalAddr  Port  RASSignalAddr  Port  Zone Name  Type  Flags
-----
14.50.201.17    1720  14.50.201.17   62820 CCM-CUBE   H323-GW
    ENDPOINT-ID: 83D872B800000001  VERSION: 4  AGE: 24 secs  SupportsAnnexE: FALSE
    g_supp_protos: 0x000000050
    H323-ID: CUBE-1
    Voice Capacity Max.= Avail.= Current.= 2
14.50.201.81    39284 14.50.201.81   33580 CCM
    VOIP-GW
    ENDPOINT-ID: 849D11EC00000002  VERSION: 5  AGE: 8 secs  SupportsAnnexE: FALSE
    g_supp_protos: 0x000000050
    H323-ID: CCM-GK-Trunk_1
    Voice Capacity Max.= Avail.= Current.= 1
Total number of active registrations = 2
```

## Gatekeeper-2

```
GATEKEEPER ENDPOINT REGISTRATION
=====
CallSignalAddr  Port  RASSignalAddr  Port  Zone Name  Type  Flags
-----
14.1.123.95     1720  14.1.123.95   64422 CME-CUBE   H323-GW
    ENDPOINT-ID: 8591ED9400000001  VERSION: 4  AGE: 10 secs  SupportsAnnexE: FALSE
    g_supp_protos: 0x000000050
    H323-ID: CUBE-2
    Voice Capacity Max.= Avail.= Current.= 2
14.1.125.125    1720  14.1.125.125   56689 CME
    VOIP-GW
    ENDPOINT-ID: 860100E800000002  VERSION: 4  AGE: 6 secs  SupportsAnnexE: FALSE
    g_supp_protos: 0x000000050
    H323-ID: CME-1
    Voice Capacity Max.= Avail.= Current.= 1
Total number of active registrations = 2
```

- **Mostre o GW-tipo-prefixo do porteiroGatekeeper-1**

```
GATEWAY TYPE PREFIX TABLE
=====
Prefix: 3#*      (Hopoff zone CME-CUBE)

Prefix: 2#*
Zone CCM master gateway list:
  14.50.201.81:39284 CCM-GK-Trunk_1
Zone CCM-CUBE master gateway list:
  14.50.201.17:1720 CUBE-1
```

## Gatekeeper-2

```
GATEWAY TYPE PREFIX TABLE
=====
Prefix: 2#*      (Hopoff zone CCM-CUBE)

Prefix: 3#*
Zone CME master gateway list:
  14.1.125.125:1720 CME-1
Zone CME-CUBE master gateway list:
  14.1.123.95:1720 CUBE-2
```

## • Mostre atendimentos do porteiro Gatekeeper-1

Total number of active calls = 2.

largest hash bucket = 2

### GATEKEEPER CALL INFO

=====

```
LocalCallID          Age(secs)  BW
7-196                760        26        832(Kbps)
ConferenceID         CallID          SrcCRV
006E38C4 3570518C 03000301 0E32CA1F 006E38C4 3570518C 03000301 0E32CA1F 3
  Endpt(s): Alias          E.164Addr
    src EP: CCM-GK-Trunk_1  9193922000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.50.201.81    39284 14.50.201.81    33580
  Endpt(s): Alias          E.164Addr
    dst EP: CUBE-1         3#4085252000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.50.201.17    1720 14.50.201.17    62820
    callstate: SEP, DEP,
```

```
LocalCallID          Age(secs)  BW
8-196                760        25        832(Kbps)
ConferenceID         CallID          SrcCRV
006E38C4 3570518C 03000301 0E32CA1F 006E38C4 3570518C 03000301 0E32CA1F 8
  Endpt(s): Alias          E.164Addr
    src EP: CUBE-1         9193922000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.50.201.17    1720 14.50.201.17    62820
  Endpt(s): Alias          E.164Addr
    dst EP:                 3#4085252000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.1.123.95     1720 14.1.123.95     1720
    callstate: SEP,
```

## Gatekeeper-2

Total number of active calls = 2.

largest hash bucket = 2

### GATEKEEPER CALL INFO

=====

```
LocalCallID          Age(secs)  BW
15-196               760        41        832(Kbps)
ConferenceID         CallID          SrcCRV
006E38C4 3570518C 03000301 0E32CA1F 006E38C4 3570518C 03000301 0E32CA1F 0
  Endpt(s): Alias          E.164Addr
    src EP: CUBE-1         9193922000
  Endpt(s): Alias          E.164Addr
    dst EP: CUBE-2         3#4085252000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.1.123.95     1720 14.1.123.95     64422
    callstate: DEP,
```

```
LocalCallID          Age(secs)  BW
16-196               760        41        832(Kbps)
ConferenceID         CallID          SrcCRV
006E38C4 3570518C 03000301 0E32CA1F 006E38C4 3570518C 03000301 0E32CA1F 16
  Endpt(s): Alias          E.164Addr
    src EP: CUBE-2         9193922000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.1.123.95     1720 14.1.123.95     64422
  Endpt(s): Alias          E.164Addr
    dst EP: CME-1         3#4085252000
      CallSignalAddr  Port  RASSignalAddr  Port
      14.1.125.125    1720 14.1.125.125    56689
    callstate: SEP, DEP,
```

## CUBO

Use esta seção a fim confirmar que sua configuração trabalha corretamente no CUBO.

- **Show gatewayCube-1**

```
H.323 ITU-T Version: 4.0   H323 Stack Version: 0.1
```

```
H.323 service is up
```

```
Gateway CUBE-1 is registered to Gatekeeper CCM-CUBE
```

```
Alias list (CLI configured)
```

```
H323-ID CUBE-1
```

```
Alias list (last RCF)
```

```
H323-ID CUBE-1
```

### **Cube-2**

```
H.323 ITU-T Version: 4.0   H323 Stack Version: 0.1
```

```
H.323 service is up
```

```
Gateway CUBE-2 is registered to Gatekeeper CME-CUBE
```

```
Alias list (CLI configured)
```

```
H323-ID CUBE-2
```

```
Alias list (last RCF)
```

```
H323-ID CUBE-2
```

- **Mostre a atendimento o resumo video ativoCube-1**

```
148C : 2153 192864460ms.1 +6560 pid:919 Answer 9193922000 active
```

```
dur 00:00:23 tx:1714/557033 rx:1704/360129
```

```
IP 14.50.201.81:5445 SRTP: off rtt:0ms pl:0/0ms lost:0/0/0
```

```
delay:0/0/0ms 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
```

```
148C : 2154 192864490ms.1 +6390 pid:408 Originate 3#4085252000 active
```

```
dur 00:00:23 tx:1704/360129 rx:1714/557033
```

```
IP 14.1.123.95:17180 SRTP: off rtt:0ms pl:0/0ms lost:0/0/0
```

```
delay:0/0/0ms 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: 0
```

```
SIP call-legs: 0
```

```
H323 call-legs: 2
```

```
Call agent controlled call-legs: 0
```

```
SCCP call-legs: 0
```

```
Multicast call-legs: 0
```

```
Media call-legs: 0
```

```
Total call-legs: 2
```

### **Cube-2**

```
148C : 23 192861220ms.1 +5840 pid:919 Answer 9193922000 active
```

```
dur 00:00:38 tx:2845/922239 rx:2824/571918
```

```
IP 14.50.201.17:19332 SRTP: off rtt:0ms pl:0/0ms lost:0/0/0
```

```
delay:0/0/0ms 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
```

```
148C : 24 192861250ms.1 +5640 pid:408 Originate 3#4085252000 active
```

```
dur 00:00:39 tx:2825/572078 rx:2846/922898
```

```
IP 14.1.125.125:17224 SRTP: off rtt:0ms pl:0/0ms lost:0/0/0
```

```
delay:0/0/0ms 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: 0
SIP call-legs: 0
H323 call-legs: 2
Call agent controlled call-legs: 0
SCCP call-legs: 0
Multicast call-legs: 0
Media call-legs: 0
Total call-legs: 2
```

### • Mostre conexões do rtp do voipCube-1

VoIP RTP active connections :

No.	CallId	dstCallId	LocalRTP	RmtRTP	LocalIP	RemoteIP
1	2153	2154	17782	<b>18956</b>	14.50.201.17	<b>14.50.202.31</b>
2	2154	2153	16418	<b>19496</b>	14.50.201.17	<b>14.1.123.95</b>
3	2155	2156	16564	<b>5445</b>	14.50.201.17	<b>14.50.201.44</b>
4	2156	2155	19332	<b>17180</b>	14.50.201.17	<b>14.1.123.95</b>

Found 4 active RTP connections

### Cube-2

VoIP RTP active connections :

No.	CallId	dstCallId	LocalRTP	RmtRTP	LocalIP	RemoteIP
1	23	24	19496	<b>16418</b>	14.1.123.95	<b>14.50.201.17</b>
2	24	23	16772	<b>16904</b>	14.1.123.95	<b>14.1.125.125</b>
3	25	26	17180	<b>19332</b>	14.1.123.95	<b>14.50.201.17</b>
4	26	25	17338	<b>17224</b>	14.1.123.95	<b>14.1.125.125</b>

Found 4 active RTP connections

## Troubleshooting

Use esta seção para fazer o troubleshooting da sua configuração.

### Comandos debug

Configurar o Cisco IOS gateway para registrar debuga em seu logging buffer e desabilitam o console de registro.

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

**Note:** Os comandos show and debug para problemas comuns estão disponíveis na [voz de serviço múltiplo debugam a ferramenta de consulta](#).

Estes são os comandos usados para configurar o gateway a fim armazenar debugam 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**

O CUBO debuga

- **debug voip ccapi inout**



- debugar ras
- debug h225 asn1
- debugar o asn1 h245
- debug cch323 h225
- debugar cch323 h245
- debugar o ipipgw do voip

O porteiro debuga

- debugar ras
- debugar o gatekeeper principal 10
- debugar o atendimento 10 do porteiro
- debugar a zona de gatekeeper 10

## Exemplo do fluxo de chamadas

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

1. [O telefone IP \(919-392-2000\) faz um atendimento ao telefone IP \(408-525-2000\)](#)
2. [Cisco unificou o gerente de uma comunicação prefixa um 3# ao chamar-número e envia um pedido ARQ ao porteiro em Site-1](#)
3. [Gatekeeper-1 identifica que o atendimento é de entrada da zona CCM e verifica se haja uma zona da invia configurada](#)
4. [Gatekeeper-1 determina CCM-CUBE como a zona da invia para a zona CCM e o tenta encontrar um gateway IP-IP na zona CCM-CUBE](#)
5. [Gatekeeper-1 encontra o gateway local IP-IP \(CUBE-1\) e envia o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway \(14.50.201.17\) na resposta ACF](#)
6. [Cisco unificou o gerente de uma comunicação envia um mensagem setup de H225 a CUBE-1](#)
7. [CUBE-1 envia um pedido ARQ com a “chamada de resposta” ajustou-se PARA RETIFICAR a Gatekeeper-1](#)
8. [Gatekeeper-1 envia uma resposta ACF a CUBE-1](#)
9. [CUBE-1 então combina o dial peer de entrada 919 e o dial peer de saída 408 e envia um pedido ARQ para 3#4085252000 a Gatekeeper-1](#)
10. [CUBE-1 envia a mensagem procedente do atendimento de H225 a Cisco unificou o gerente de uma comunicação](#)
11. [Porque não há nenhuma zona da invia configurada para a zona CCM-CUBE, Gatekeeper-1 executa o processamento normal ARQ. Encontra o tecnologia-prefixo 3# no número de destino](#)
12. [3# é configurado como um prefixo do hopoff para a zona remota CME-CUBE. Daqui, Gatekeeper-1 envia um LRQ \(Location Request\) a Gatekeeper-2](#)
13. [Gatekeeper-2 recebe o LRQ e identifica-o que o LRQ é da zona remota CCM-CUBE. Verifica se haja uma zona da invia configurada para a zona remota CCM-CUBE](#)
14. [Gatekeeper-2 determina CME-CUBE como a zona da invia para a zona CCM-CUBE e o tenta encontrar um gateway IP-IP em CME-CUBE](#)
15. [Gatekeeper-2 encontra o gateway local IP-IP \(CUBE-2\) e envia o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway \(14.1.123.95\) na resposta LCF](#)
16. [Gatekeeper-1 recebe a resposta LCF e envia uma resposta ACF com o endereço IP de Um](#)

- [ou Mais Servidores Cisco ICM NT de CUBE-2 a CUBE-1](#)
17. [CUBE-1 envia um mensagem setup de H225 a CUBE-2](#)
  18. [CUBE-2 envia um pedido ARQ com a “chamada de resposta” ajustou-se PARA RETIFICAR a Gatekeeper-2](#)
  19. [Gatekeeper-2 envia uma resposta ACF a CUBE-2](#)
  20. [CUBE-2 então combina o dial peer de entrada 919 e o dial peer de saída 408 e envia um pedido ARQ para 3#4085252000 a Gatekeeper-2](#)
  21. [CUBE-2 envia uma mensagem procedente do atendimento de H225 a CUBE-1](#)
  22. [Porque não há nenhuma zona da invia configurada para a zona CCM-CUBE, Gatekeeper-2 executa o processamento normal ARQ. Encontra o prefixo da tecnologia 3# no número de destino](#)
  23. [Gatekeeper-2 usa os dígitos remanescente \(4085252000\) para encontrar um fósforo do prefixo de zona. Determina que a zona CME pode segurar estes prefixo 408 e tentativas para encontrar um gateway que seja registrado na zona CME com um tecnologia-prefixo 3#](#)
  24. [Gatekeeper-2 seleciona o CME como o gateway de destino e envia seu endereço IP de Um ou Mais Servidores Cisco ICM NT \(14.1.103.74\) na resposta ACF](#)
  25. [CUBE-2 recebe a resposta ACF e envia um mensagem setup de H225 ao CME](#)
  26. [O porteiro recebe um pedido ARQ com a “chamada de resposta” ajustou-se PARA RETIFICAR do CME e enviou-se uma resposta ACF](#)
  27. [CUBE-2 recebe a continuação, a alerta e os mensagens CONNECT do atendimento de H225 do CME, que são passados então a toda a maneira de volta ao gerente das comunicações unificadas de Cisco](#)
  28. [A negociação H.245 ocorre. Os córregos audio e video RTP são estabelecidos](#)
  29. [4085252000 penduram acima o atendimento. CUBE-2 recebe H225 Liberação-completo do CME](#)
  30. [Após a recepção/enviar Liberação-completa, o CCM, CUBE-1, CUBE-2 e o CME enviam uma requisição de desligamento \(DRQ\) a seus porteiros respectivos](#)
  31. [CUBE-2 envia Liberação-completo a CUBE-1, que envia então uma mensagem Liberação-completa correspondente ao gerente das comunicações unificadas de Cisco e às desconexões do atendimento](#)

## [Saídas de depuração](#)

Esta seção fornece resultados do debug para o fluxo de chamadas discutido nesta seção.

Clique estes hiperlinks para o resultado do debug completo:

- [GK-CUBE-1](#)
- [GK-CUBE-2](#)
- [CME-1](#)

### [Passo 1](#)

O telefone IP (919-392-2000) faz um atendimento ao telefone IP (408-525-2000).

### [Passo 2](#)

Cisco unificou o gerente de uma comunicação prefixa um 3# ao chamar-número e envia um

pedido ARQ ao porteiro em Site-1.

(GK-CUBE-1.txt)

008874: \*Jul 24 06:49:52.584: RAS INCOMING PDU ::=

```
value RasMessage ::= admissionRequest :
{
  requestSeqNum 72
  callType pointToPoint : NULL
  endpointIdentifier {"849D11EC00000002"}
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  srcInfo
  {
    dialedDigits : "9193922000"
  }
  srcCallSignalAddress ipAddress :
  {
    ip '0E32C951'H
    port 39284
  }
  bandwidth 7680
  callReferenceValue 3
  conferenceID '006E38C43570518C030003010E32CA1F'H
  activeMC FALSE
  answerCall FALSE
  canMapAlias TRUE
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  gatekeeperIdentifier {"CCM"}
  willSupplyUUIEs FALSE
}
```

### Etapa 3

Gatekeeper-1 identifica que o atendimento é de entrada da zona CCM e verifica se haja uma zona da invia configurada.

(GK-CUBE-1.txt)

```
008882: *Jul 24 06:49:52.600: //006E38C40300/006E38C40300/GK/rassrv_get_addrinfo:
(3#4085252000) Matched tech-prefix 3#
008883: *Jul 24 06:49:52.600: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_get_ingress_network:
returning default ingress network = 1
008884: *Jul 24 06:49:52.600: //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone:
about to check the source side, src_zonep=0x8528AAE8
008885: *Jul 24 06:49:52.600: //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone:
matched zone is CCM, and z_inviaenamelen=8
```

### Passo 4

Gatekeeper-1 determina CCM-CUBE como a zona da invia para a zona CCM e o tenta encontrar um gateway IP-IP na zona CCM-CUBE.

(GK-CUBE-1.txt)

```
008886: *Jul 24 06:49:52.600: //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone
and z_invianamep=CCM-CUBE
008887: *Jul 24 06:49:52.600: zone_gkid_search_cluster:
searching for gkid CCM-CUBE
008888: *Jul 24 06:49:52.600: zone_gkid_search_cluster:
searching local cluster for CCM-CUBE, z_gknamep: CCM z_flags: 0x3000017
008889: *Jul 24 06:49:52.600: //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone(CCM):
Terminating inbound call at the IPIPGW in zone CCM-CUBE
```

## Etapa 5

Gatekeeper-1 encontra o gateway local IP-IP (CUBE-1) e envia o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway (14.50.201.17) na resposta ACF.

(GK-CUBE-1.txt)

```
008895: *Jul 24 06:49:52.604:
//xxxxxxxxxxxxxx/xxxxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random: Found an IPIPGW.
tgwp: 0x84EA170C, endptsigIP: 14.50.201.17,
endptrasIP: 14.50.201.17, zone: CCM-CUBE
008896: *Jul 24 06:49:52.604:
//xxxxxxxxxxxxxx/xxxxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random:
Selected an IPIPGW.
008897: *Jul 24 06:49:52.604: //006E38C40300/006E38C40300/GK/rassrv_get_addrinfo:
(3#4085252000) successfully resolved IPIPGW and returning with
return code 0
008898: *Jul 24 06:49:52.608: H225 NONSTD OUTGOING PDU ::=
```

```
value ACFnonStandardInfo ::=
{
  srcTerminalAlias
  {
    e164 : "9193922000"
  }
  dstTerminalAlias
  {
    e164 : "3#4085252000"
  }
}
```

```
008899: *Jul 24 06:49:52.608: H225 NONSTD OUTGOING ENCODE BUFFER::=
00010480C4C6C553330105806073B8585333
008900: *Jul 24 06:49:52.608:
008901: *Jul 24 06:49:52.608: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= admissionConfirm :
{
  requestSeqNum 72
  bandwidth 7680
  callModel direct : NULL
  destCallSignalAddress ipAddress :
  {
    ip '0E32C911'H
    port 1720
  }
}
```

```

irrFrequency 240
nonStandardData
{
  nonStandardIdentifier h221NonStandard :
  {
    t35CountryCode 181
    t35Extension 0
    manufacturerCode 18
  }
  data '00010480C4C6C553330105806073B8585333'H
}
willRespondToIRR FALSE
uuiesRequested
{
  setup FALSE
  callProceeding FALSE
  connect FALSE
  alerting FALSE
  information FALSE
  releaseComplete FALSE
  facility FALSE
  progress FALSE
  empty FALSE
}
}

```

## [Etapa 6](#)

Cisco unificou o gerente de uma comunicação envia um mensagem setup de H225 a CUBE-1.

(GK-CUBE-1.txt)

```
008913: *Jul 24 06:49:52.636: H225.0 INCOMING PDU ::=
```

```
value H323_UserInformation ::=
```

```

{
  h323-uu-pdu
  {
    h323-message-body setup :
    {
      protocolIdentifier { 0 0 8 2250 0 5 }
      sourceAddress
      {
        dialedDigits : "9193922000",
        h323-ID : {"9193922000..."}
      }
      sourceInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
          productId '436973636F43616C6C4D616E61676572'H
          versionId '31'H
        }
        terminal
        {
        }
      }
    }
  }
}

```

```

    mc FALSE
    undefinedNode FALSE
  }
  destinationAddress
  {
    dialedDigits : "3#4085252000"
  }
  activeMC FALSE
  conferenceID '006E38C43570518C030003010E32CA1F'H
  conferenceGoal create : NULL
  callType pointToPoint : NULL
  sourceCallSignalAddress ipAddress :
  {
    ip '0E32C951'H
    port 39284
  }
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  mediaWaitForConnect FALSE
  canOverlapSend FALSE
  multipleCalls FALSE
  maintainConnection FALSE
}
h245Tunneling FALSE
nonStandardControl
{
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '8144000400010300'H
  }
}
}
}

```

```

008917: *Jul 24 06:49:52.664: //-1/xxxxxxxxxxxx/H323/cch323_h225_receiver:
Received msg of type SETUPIND_CHOSEN
008918: *Jul 24 06:49:52.664: //-1/xxxxxxxxxxxx/H323/setup_ind: Entry
008919: *Jul 24 06:49:52.664: //2153/006E38C40300/H323/setup_ind:
callingNumber[9193922000] calledNumber[3#4085252000]
008920: *Jul 24 06:49:52.664: //2153/006E38C40300/H323/setup_ind:
---- calling IE present
008921: *Jul 24 06:49:52.664: //2153/006E38C40300/H323/setup_ind: ===== PI = 0
008922: *Jul 24 06:49:52.664: //2153/006E38C40300/H323/setup_ind:
Receive: infoXCap 8
008923: *Jul 24 06:49:52.664: //2153/006E38C40300/H323/setup_ind:
Receive: infoXCap ccb 8
008924: *Jul 24 06:49:52.664: //2153/006E38C40300/H323/setup_ind:
Receive bearer cap infoXRate 24, rateMult 6
008925: *Jul 24 06:49:52.668: //2153/006E38C40300/H323/setup_ind:
setup_ind: is_overlap = 0, info_complete = 0

```

## [Etapa 7](#)

CUBE-1 envia um pedido ARQ com a “chamada de resposta” ajustou-se PARA RETIFICAR a Gatekeeper-1.

(GK-CUBE-1.txt)

```
008932: *Jul 24 06:49:52.672: H225 NONSTD OUTGOING ENCODE BUFFER::= 80000010800181
008933: *Jul 24 06:49:52.672:
008934: *Jul 24 06:49:52.676: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= admissionRequest :
{
  requestSeqNum 4099
  callType pointToPoint : NULL
  callModel direct : NULL
  endpointIdentifier {"83D872B800000001"}
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  srcInfo
  {
    dialedDigits : "9193922000",
    dialedDigits : "9193922000",
    h323-ID : {"9193922000..."}
  }
  srcCallSignalAddress ipAddress :
  {
    ip '0E32C951'H
    port 39284
  }
  bandwidth 7680
  callReferenceValue 7
  nonStandardData
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '80000010800181'H
  }
  conferenceID '006E38C43570518C030003010E32CA1F'H
  activeMC FALSE
  answerCall TRUE
  canMapAlias TRUE
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  willSupplyUUIEs FALSE
}
```

## Passo 8

Gatekeeper-1 envia uma resposta ACF a CUBE-1.

(GK-CUBE-1.txt)

```
008950: *Jul 24 06:49:52.724: H225 NONSTD OUTGOING ENCODE BUFFER::= 40
008951: *Jul 24 06:49:52.724:
008952: *Jul 24 06:49:52.724: RAS OUTGOING PDU ::=
```

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

```

{
  requestSeqNum 4099
  bandwidth 7680
  callModel direct : NULL
  destCallSignalAddress ipAddress :
  {
    ip '0E32C911'H
    port 1720
  }
  irrFrequency 240
  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
        {
          {
            nonStandardIdentifier h221NonStandard :
            {
              t35CountryCode 181
              t35Extension 0
              manufacturerCode 18
            }
            data '40'H
          }
        }
        startTime NULL
        endTime NULL
        terminationCause NULL
      }
    }
  }
}

```

## [Passo 9](#)

CUBE-1 então combina o dial peer de entrada 919 e o dial peer de saída 408 e envia um pedido ARQ para 3#4085252000 a Gatekeeper-1.



(GK-CUBE-1.txt)

```
008974: *Jul 24 06:49:52.772: //-1/006E38C40300/CCAPI/cc_api_call_setup_ind_common:
  Interface=0x857AB698, Call Info(
    Calling Number=9193922000,(Calling Name=)(TON=Unknown, NPI=Unknown,
      Screening=User, Passed, Presentation=Allowed),
    Called Number=3#4085252000(TON=Unknown, NPI=Unknown),
    Calling Translated=FALSE, Subscriber Type Str=Unknown, FinalDestinationFlag=TRUE,
Incoming Dial-peer=919, Progress Indication=NULL(0),
    Calling IE Present=TRUE,
    Source Trkgrp Route Label=, Target Trkgrp Route Label=, CLID Transparent=FALSE),
    Call Id=2153
```

```
008995: *Jul 24 06:49:52.797: //2153/006E38C40300/CCAPI/ccIFCallSetupRequestPrivate:
  Interface=0x857AB698, Interface Type=1, Destination=, Mode=0x0,
  Call Params(Calling Number=9193922000,(Calling Name=)(TON=Unknown, NPI=Unknown,
    Screening=User, Passed, Presentation=Allowed),
  Called Number=3#4085252000(TON=Unknown, NPI=Unknown), Calling Translated=FALSE,
  Subscriber Type Str=Unknown, FinalDestinationFlag=TRUE, Outgoing Dial-peer=408,
  Call Count On=FALSE,
  Source Trkgrp Route Label=, Target Trkgrp Route Label=, tg_label_flag=0,
  Application Call Id=)
```

```
009019: *Jul 24 06:49:52.813: H225 NONSTD OUTGOING PDU ::=
```

```
value ARQnonStandardInfo ::=
{
  sourceAlias
  {
  }
  sourceExtAlias
  {
  }
  callingOctet3a 129
  gtd '49414D2C0D0A4745412C747273332C30302C312C...'H
  ingressNetwork h323 : NULL
}
```

```
009020: *Jul 24 06:49:52.813: H225 NONSTD OUTGOING ENCODE BUFFER ::=
  800000108901812A002749414D2C0D0A4745412C747273332C30302C312C792
  C792C312C393139333932323030300D0A0D0A0120
```

```
009021: *Jul 24 06:49:52.817:
```

```
009022: *Jul 24 06:49:52.817: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= admissionRequest :
{
  requestSeqNum 4100
  callType pointToPoint : NULL
  callModel direct : NULL
  endpointIdentifier {"83D872B800000001"}
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  srcInfo
  {
    dialedDigits : "9193922000",
    h323-ID : {"CUBE-1"}
  }
}
```

```

bandWidth 7680
callReferenceValue 8
nonStandardData
{
  nonStandardIdentifier h221NonStandard :
  {
    t35CountryCode 181
    t35Extension 0
    manufacturerCode 18
  }
  data '800000108901812A002749414D2C0D0A4745412C...'H
}
conferenceID '006E38C43570518C030003010E32CA1F'H
activeMC FALSE
answerCall FALSE
canMapAlias TRUE
callIdentifier
{
  guid '006E38C43570518C030003010E32CA1F'H
}
willSupplyUUIEs FALSE
}

```

## Passo 10

CUBE-1 envia a mensagem procedente do atendimento de H225 a Cisco unificou o gerente de uma comunicação.

```

009029: *Jul 24 06:49:52.833: //2153/006E38C40300/H323/run_h225_sm:
      Received event H225_EV_CALLPROC while at state H225_SETUP
009030: *Jul 24 06:49:52.833: //2153/006E38C40300/H323/cch323_h225_set_new_state:
      Changing from H225_SETUP state to H225_CALLPROC state
009031: *Jul 24 06:49:52.833: //2153/006E38C40300/H323/generic_send_callproc:
      ===== PI = 0
009032: *Jul 24 06:49:52.837: H225.0 OUTGOING PDU ::=

value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body callProceeding :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      destinationInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
          productId '436973636F47617465776179'H
          versionId '32'H
        }
        gateway
        {
          protocol
          {
            voice :
            {

```

```

        supportedPrefixes
        {
            {
                prefix dialedDigits : "2#"
            }
        }
    },
    h323 :
    {
        supportedPrefixes
        {
        }
    }
}
}
mc FALSE
undefinedNode FALSE
}
callIdentifier
{
    guid '006E38C43570518C030003010E32CA1F'H
}
multipleCalls FALSE
maintainConnection FALSE
}
h245Tunneling FALSE
}
}

```

## [Passo 11](#)

Porque não há nenhuma zona da invia configurada para a zona CCM-CUBE, Gatekeeper-1 executa o processamento normal ARQ. Encontra o tecnologia-prefixo 3# no número de destino.

(GK-CUBE-1.txt)

```

009050: *Jul 24 06:49:52.881: //006E38C40300/006E38C40300/GK/rassrv_get_addrinfo:
        (3#4085252000) Matched tech-prefix 3#
009051: *Jul 24 06:49:52.881:
        //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_get_ingress_network:
        ARQ non-std ingress network = 2

```

## [Etapa 12](#)

3# é configurado como um prefixo do hopoff para a zona remota CME-CUBE. Daqui, Gatekeeper-1 envia um LRQ (Location Request) a Gatekeeper-2.

(GK-CUBE-1.txt)

```

009053: *Jul 24 06:49:52.881:
        //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone:
        matched zone is CME-CUBE, and z_outvianamelen=8
009054: *Jul 24 06:49:52.881:
        //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone
        and z_outvianamep=CCM-CUBE
009055: *Jul 24 06:49:52.885: zone_gkid_search_cluster:
        searching for gkid CCM-CUBE
009056: *Jul 24 06:49:52.885: zone_gkid_search_cluster:
        searching local cluster for CCM-CUBE, z_gknamep: CCM z_flags: 0x3000017
009057: *Jul 24 06:49:52.885:

```

//006E38C40300/006E38C40300/GK/rassrv\_arq\_select\_viazone:

**Received ARQ for a zone (CME-CUBE) that has an outviazone (CCM-CUBE) specified,  
but I am that viazone. Continue normal ARQ processing**

009061: \*Jul 24 06:49:52.885: H225 NONSTD OUTGOING PDU ::=

value LRQnonStandardInfo ::=

```
{
  ttl 6
  nonstd-callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  callingOctet3a 129
  gatewaySrcInfo
  {
    e164 : "9193922000",
    h323-ID : {"CUBE-1"}
  }
  gtd '49414D2C0D0A4745412C747273332C30302C312C...'H
}
```

009062: \*Jul 24 06:49:52.889: H225 NONSTD OUTGOING ENCODE BUFFER::= 8289B100110000  
6E38C43570518C030003010E32CA1F018116020480C4C6C5533340050043005500420045002D00  
312A002749414D2C0D0A4745412C747273332C30302C312C792C792C312C393139333932323030  
300D0A0D0A

009063: \*Jul 24 06:49:52.893:

009064: \*Jul 24 06:49:52.893: RAS OUTGOING PDU ::=

value RasMessage ::= locationRequest :

```
{
  requestSeqNum 2051
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  nonStandardData
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '8289B1001100006E38C43570518C030003010E32...'H
  }
  replyAddress ipAddress :
  {
    ip '0E32C911'H
    port 1719
  }
  sourceInfo
  {
    h323-ID : {"CCM-CUBE"}
  }
  canMapAlias TRUE
  hopCount 6
}
```

[Etapa 13](#)

Gatekeeper-2 recebe o LRQ e identifica-o que o LRQ é da zona remota CCM-CUBE. Verifica se haja uma zona da invia configurada para a zona remota CCM-CUBE.

(GK-CUBE-2.txt)

```
026307: *Sep 24 12:43:19.182: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq:
      checking the source of the LRQ. source_endptp=0x0
026308: *Sep 24 12:43:19.182: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq:
      srcvia found gkname of source zone. looking up CCM-CUBE in zone list
026309: *Sep 24 12:43:19.182: zone_gkid_search_cluster: searching for gkid CCM-CUBE
026310: *Sep 24 12:43:19.182: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq:
      about to check the source side, src_zonep=0x86006BF0
026311: *Sep 24 12:43:19.182: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq:
      matched zone is CCM-CUBE
```

## Etapa 14

Gatekeeper-2 determina CME-CUBE como a zona da invia para a zona CCM-CUBE e o tenta encontrar um gateway IP-IP em CME-CUBE.

(GK-CUBE-2.txt)

```
026312: *Sep 24 12:43:19.182: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq
      and z_invianamelen=8
026313: *Sep 24 12:43:19.182: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq
      and z_invianamep=CME-CUBE
026314: *Sep 24 12:43:19.182: zone_gkid_search_cluster: searching for gkid CME-CUBE
026315: *Sep 24 12:43:19.186: zone_gkid_search_cluster: searching local cluster for
      CME-CUBE, z_gknamep: CME z_flags: 0x3000017
026316: *Sep 24 12:43:19.186: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_lrq(CCM-CUBE):
      Terminating inbound call at the IPIPGW in zone CME-CUBE
026317: *Sep 24 12:43:19.186:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random:
      zonep: 0x86006984, tpp: 0x854C57CC, current_endpt: 1
026318: *Sep 24 12:43:19.186:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random:
      Selecting IPIPGW based on tech prefix. qe Kemp.head=0x8606CA90, use_count=1,
      current_endpt=1
```

## Etapa 15

Gatekeeper-2 encontra o gateway local IP-IP (CUBE-2) e envia o endereço IP de Um ou Mais Servidores Cisco ICM NT do gateway (14.1.123.95) na resposta LCF.

(GK-CUBE-2.txt)

```
026322: *Sep 24 12:43:19.186:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random:
      Found an IPIPGW. tgwp: 0x84F7A7B4, endptsigIP: 14.1.123.95,
      endptrasIP: 14.1.123.95, zone: CME-CUBE
026323: *Sep 24 12:43:19.186:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random: Selected an IPIPGW.
026324: *Sep 24 12:43:19.190:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_zone_get_proxy_usage: local zone= CME-CUBE,
      remote zone= CCM-CUBE, call direction= 0, eptype= 67650 be_entry= 0
026325: *Sep 24 12:43:19.190:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_zone_get_proxy_usage: returns proxied = 0
```

026326: \*Sep 24 12:43:19.190: H225 NONSTD OUTGOING PDU ::=

```
value LCFnonStandardInfo ::=
{
  termAlias
  {
    h323-ID : {"CUBE-2"}
  }
  gkID {"CME-CUBE"}
  gateways
  {
    {
      gwType h320-gateway : NULL
      gwAlias
      {
        h323-ID : {"CUBE-2"}
      }
      sigAddress
      {
        ip '0E017B5F'H
        port 1720
      }
      resources
      {
        maxDSPs 0
        inUseDSPs 0
        maxBChannels 0
        inUseBChannels 0
        activeCalls 0
        bandwidth 0
        inuseBandwidth 0
      }
    }
  }
  gtd gtdData : '49414D2C0D0A4745412C747273332C30302C312C...'H
}
```

026327: \*Sep 24 12:43:19.198: H225 NONSTD OUTGOING ENCODE BUFFER ::= 80014005004300  
5500420045002D00320E0043004D0045002D004300550042004501000140050043005500420045002  
D0032000E017B5F06B800000000000000000000004802B00002749414D2C0D0A4745412C747273332C3  
0302C312C792C792C312C393139333932323030300D0A0D0A

026328: \*Sep 24 12:43:19.202:

026329: \*Sep 24 12:43:19.202: RAS OUTGOING PDU ::=

```
value RasMessage ::= locationConfirm :
{
  requestSeqNum 2051
  callSignalAddress ipAddress :
  {
    ip '0E017B5F'H
    port 1720
  }
  rasAddress ipAddress :
  {
    ip '0E017B5F'H
    port 64422
  }
  nonStandardData
  {
    nonStandardIdentifier h221NonStandard :
    {
```

```

        t35CountryCode 181
        t35Extension 0
        manufacturerCode 18
    }
    data '800140050043005500420045002D00320E004300...'H
}
destinationInfo
{
    dialedDigits : "3#4085252000"
}
destinationType
{
    gateway
    {
    }
    mc FALSE
    undefinedNode FALSE
}
}

```

## [Etapa 16](#)

Gatekeeper-1 recebe a resposta LCF e envia uma resposta ACF com o endereço IP de Um ou Mais Servidores Cisco ICM NT de CUBE-2 a CUBE-1.

(GK-CUBE-1.txt)

```

009094: *Jul 24 06:49:52.993: H225 NONSTD OUTGOING PDU ::=
value ACFnonStandardInfo ::=
{
    srcTerminalAlias
    {
        e164 : "9193922000",
        h323-ID : {"CUBE-1"}
    }
    dstTerminalAlias
    {
        e164 : "3#4085252000"
    }
    srcInfo
    {
        e164 : "9193922000",
        h323-ID : {"CUBE-1"}
    }
    gtd gtdData : '49414D2C0D0A4745412C747273332C30302C312C...'H
}

009095: *Jul 24 06:49:52.997: H225 NONSTD OUTGOING ENCODE BUFFER::= 80020480C4C6
C5533340050043005500420045002D00310105806073B8585333058016020480C4C6C55333400500
43005500420045002D00312B00002749414D2C0D0A4745412C747273332C30302C312C792C792C31
2C393139333932323030300D0A0D0A
009096: *Jul 24 06:49:53.001:
009097: *Jul 24 06:49:53.001: H225 NONSTD OUTGOING PDU ::=
value RasnonStdUsageTypes ::=
{
    callModes NULL
}

```

009098: \*Jul 24 06:49:53.001: H225 NONSTD OUTGOING ENCODE BUFFER::= 40  
009099: \*Jul 24 06:49:53.001:  
009100: \*Jul 24 06:49:53.001: RAS OUTGOING PDU ::=

**value RasMessage ::= admissionConfirm :**

```
{
  requestSeqNum 4100
  bandwidth 7680
  callModel direct : NULL
  destCallSignalAddress ipAddress :
  {
    ip '0E017B5F'H
    port 1720
  }
  irrFrequency 240
  nonStandardData
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '80020480C4C6C553334005004300550042004500...'H
  }
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  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
        {
          {
            nonStandardIdentifier h221NonStandard :
```





```

        {
            supportedPrefixes
            {
            }
        }
    }
    mc FALSE
    undefinedNode FALSE
}
destinationAddress
{
    dialedDigits : "3#4085252000"
}
activeMC FALSE
conferenceID '006E38C43570518C030003010E32CA1F'H
conferenceGoal create : NULL
callType pointToPoint : NULL
sourceCallSignalAddress ipAddress :
{
    ip '0E32C911'H
    port 40523
}
callIdentifier
{
    guid '006E38C43570518C030003010E32CA1F'H
}
mediaWaitForConnect FALSE
canOverlapSend FALSE
multipleCalls TRUE
maintainConnection TRUE
}
h245Tunneling TRUE
nonStandardControl
{
    {
        nonStandardIdentifier h221NonStandard :
        {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
        }
        data 'E0011200011C351C339E01000367746400000028...'H
    }
}
tunnelledSignallingMessage
{
    tunnelledProtocolID
    {
        id tunnelledProtocolAlternateID :
        {
            protocolType "gtd"
        }
    }
    messageContent
    {
        '49414D2C0D0A4745412C747273332C30302C312C...'H
    }
}
}
}
}

```

```
009142: *Jul 24 06:49:53.125: H225.0 OUTGOING ENCODE BUFFER ::= 20B0060008914A
00040140050043005500420045002D003128C0B50000120B436973636F4761746577617900324
0023C0504010020502C050100000105806073B858533300006E38C43570518C030003010E32CA1
F00CD0D800007000E32C9119E4B1100006E38C43570518C030003010E32CA1F010001000180018
010A801805C0140B500001255E0011200011C351C339E0100036774640000002849414D2C0D0A4
745412C747273332C30302C312C792C792C312C393139333932323030300D0A0D0A0A500400010
3001127F8000000000000000000000000000000002F0204677464012849414D2C0D0A4745412C747
273332C30302C312C792C792C312C393139333932323030300D0A0D0A
009143: *Jul 24 06:49:53.129:
009144: *Jul 24 06:49:53.129:
//2154/006E38C40300/H323/cch323_h225_set_new_state:
Changing from H225_IDLE state to H225_SETUP state
```

## Etapa 18

CUBE-2 envia um pedido ARQ com a “chamada de resposta” ajustou-se PARA RETIFICAR a Gatekeeper-2.

(GK-CUBE-2.txt)

```
026357: *Sep 24 12:43:19.442: //23/006E38C40300/H323/cch323_h225_set_new_state:
Changing from H225_IDLE state to H225_WAIT_FOR_ARQ state
026358: *Sep 24 12:43:19.446: H225 NONSTD OUTGOING PDU ::=
```

```
value ARQnonStandardInfo ::=
{
  sourceAlias
  {
  }
  sourceExtAlias
  {
  }
  callingOctet3a 129
}
```

```
026359: *Sep 24 12:43:19.446: H225 NONSTD OUTGOING ENCODE BUFFER ::= 80000010800181
026360: *Sep 24 12:43:19.446:
026361: *Sep 24 12:43:19.446: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= admissionRequest :
{
  requestSeqNum 4351
  callType pointToPoint : NULL
  callModel direct : NULL
  endpointIdentifier {"8591ED9400000001"}
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  srcInfo
  {
    dialedDigits : "9193922000",
    h323-ID : {"CUBE-1"}
  }
  srcCallSignalAddress ipAddress :
  {
    ip '0E32C911'H
    port 40523
  }
}
```

```

bandWidth 7680
callReferenceValue 15
nonStandardData
{
  nonStandardIdentifier h221NonStandard :
  {
    t35CountryCode 181
    t35Extension 0
    manufacturerCode 18
  }
  data '80000010800181'H
}
conferenceID '006E38C43570518C030003010E32CA1F'H
activeMC FALSE
answerCall TRUE
canMapAlias TRUE
callIdentifier
{
  guid '006E38C43570518C030003010E32CA1F'H
}
willSupplyUUIEs FALSE
}

```

## [Etapa 19](#)

Gatekeeper-2 envia uma resposta ACF a CUBE-2.

(GK-CUBE-2.txt)

026383: \*Sep 24 12:43:19.494: RAS OUTGOING PDU ::=

```

value RasMessage ::= admissionConfirm :
{
  requestSeqNum 4351
  bandWidth 7680
  callModel direct : NULL
  destCallSignalAddress ipAddress :
  {
    ip '0E017B5F'H
    port 1720
  }
  irrFrequency 240
  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
        {
            {
                nonStandardIdentifier h221NonStandard :
                {
                    t35CountryCode 181
                    t35Extension 0
                    manufacturerCode 18
                }
                data '40'H
            }
        }
        startTime NULL
        endTime NULL
        terminationCause NULL
    }
}
}
}
}

```

## [Etapa 20](#)

CUBE-2 então combina o dial peer de entrada 919 e o dial peer de saída 408 e envia um pedido ARQ para 3#4085252000 a Gatekeeper-2.

(GK-CUBE-2.txt)

```

026406: *Sep 24 12:43:19.542: //-1/006E38C40300/CCAPI/cc_api_call_setup_ind_common:
  Interface=0x855A8B64, Call Info(
  Calling Number=9193922000,(Calling Name=)(TON=Unknown, NPI=Unknown,
    Screening=User, Passed, Presentation=Allowed),
  Called Number=3#4085252000(TON=Unknown, NPI=Unknown),
  Calling Translated=FALSE, Subscriber Type Str=Unknown,
    FinalDestinationFlag=TRUE,
Incoming Dial-peer=919, Progress Indication=NULL(0), Calling IE Present=TRUE,
  Source Trkgrp Route Label=, Target Trkgrp Route Label=, CLID Transparent=FALSE),
  Call Id=23

```

```

026427: *Sep 24 12:43:19.567: //23/006E38C40300/CCAPI/ccIFCallSetupRequestPrivate:
  Interface=0x855A8B64, Interface Type=1, Destination=, Mode=0x0,
  Call Params(Calling Number=9193922000,(Calling Name=)(TON=Unknown, NPI=Unknown,
    Screening=User, Passed, Presentation=Allowed),
  Called Number=3#4085252000(TON=Unknown, NPI=Unknown), Calling Translated=FALSE,
  Subscriber Type Str=Unknown, FinalDestinationFlag=TRUE, Outgoing Dial-peer=408,
    Call Count On=FALSE,
  Source Trkgrp Route Label=, Target Trkgrp Route Label=, tg_label_flag=0,
  Application Call Id=)

```

```

026451: *Sep 24 12:43:19.583: H225 NONSTD OUTGOING PDU ::=

```

```

value ARQnonStandardInfo ::=
{

```

```

sourceAlias
{
}
sourceExtAlias
{
}
callingOctet3a 129
gtd '49414D2C0D0A4745412C747273332C30302C312C...'H
ingressNetwork h323 : NULL
}

```

```

026452: *Sep 24 12:43:19.587: H225 NONSTD OUTGOING ENCODE BUFFER::= 8000001089
01812A002749414D2C0D0A4745412C747273332C30302C312C792C792C312C3931393339323230
30300D0A0D0A0120

```

```

026453: *Sep 24 12:43:19.587:

```

```

026454: *Sep 24 12:43:19.587: RAS OUTGOING PDU ::=

```

```

value RasMessage ::= admissionRequest :

```

```

{
  requestSeqNum 4352
  callType pointToPoint : NULL
  callModel direct : NULL
  endpointIdentifier {"8591ED9400000001"}
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  srcInfo
  {
    dialedDigits : "9193922000",
    h323-ID : {"CUBE-2"}
  }
  bandwidth 7680
  callReferenceValue 16
  nonStandardData
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '800000108901812A002749414D2C0D0A4745412C...'H
  }
  conferenceID '006E38C43570518C030003010E32CA1F'H
  activeMC FALSE
  answerCall FALSE
  canMapAlias TRUE
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  willSupplyUUIEs FALSE
}

```

## [Etapa 21](#)

CUBE-2 envia uma mensagem procedente do atendimento de H225 a CUBE-1.

```
026462: *Sep 24 12:43:19.607:
//23/006E38C40300/H323/cch323_h225_set_new_state:
Changing from H225_SETUP state to H225_CALLPROC state
026463: *Sep 24 12:43:19.607: //23/006E38C40300/H323/generic_send_callproc:
===== PI = 0
026464: *Sep 24 12:43:19.607: //23/006E38C40300/H323/cch323_build_qosInfo:
ccb=0x83D7D3D4. msg_type=0
026465: *Sep 24 12:43:19.607: //23/006E38C40300/H323/cch323_build_qosInfo:
media_ip_addr=0x0, remote_qos_video=0, audio_lport=0, audio_rport=0, video=0,
video_lport=0, video_rport=0, h245_lport=0, h245_rport=0, remote_qos_audio_bw=0,
remote_qos_video_bw=0

026466: *Sep 24 12:43:19.607: H225 NONSTD OUTGOING PDU ::=
```

```
value H323_UU_NonStdInfo ::=
{
  rsvpParam rsvpInfo :
  {
    qosIE
    {
      audio-rport 0
      video-rport 0
      audio-lport 0
      video-lport 0
      media-ip-addr 0
      remote-qos-video-bw 0
      remote-qos-audio-bw 0
      remote-qos-video 0
    }
  }
}
```

```
026467: *Sep 24 12:43:19.611: H225 NONSTD OUTGOING ENCODE BUFFER::=
80A1001127F80000000000000000000000000000000000000000000000000000
026468: *Sep 24 12:43:19.611:
026469: *Sep 24 12:43:19.611: H225.0 OUTGOING PDU ::=
```

```
value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body callProceeding :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      destinationInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
          productId '436973636F47617465776179'H
          versionId '32'H
        }
        gateway
        {
          protocol
          {
```

```

    voice :
    {
        supportedPrefixes
        {
            {
                prefix dialedDigits : "3#"
            }
        }
    },
        h323 :
    {
        supportedPrefixes
        {
        }
    }
}
}
mc FALSE
undefinedNode FALSE
}
callIdentifier
{
    guid '006E38C43570518C030003010E32CA1F'H
}
multipleCalls TRUE
maintainConnection TRUE
}
h245Tunneling FALSE
nonStandardControl
{
    {
        nonStandardIdentifier h221NonStandard :
        {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
        }
        data '80A1001127F80000000000000000000000000000000000000000000000000000...'H
    }
}
}
}
}

```

## [Etapa 22](#)

Porque não há nenhuma zona da invia configurada para a zona CCM-CUBE, Gatekeeper-2 executa o processamento normal ARQ. Encontra o prefixo da tecnologia 3# no número de destino.

(GK-CUBE-2.txt)

```

026487: *Sep 24 12:43:19.667: //006E38C40300/006E38C40300/GK/rassrv_get_addrinfo:
(3#4085252000) Matched tech-prefix 3#

```

## [Etapa 23](#)

Gatekeeper-2 usa os dígitos remanescente (4085252000) para encontrar um fósforo do prefixo de zona. Determina que a zona CME pode segurar estes prefixo 408 e tentativas para encontrar um



gateway que seja registrado na zona CME com um tecnologia-prefixo 3#.

(GK-CUBE-2.txt)

```
026488: *Sep 24 12:43:19.667: //006E38C40300/006E38C40300/GK/rassrv_get_addrinfo:
      (3#4085252000) Matched zone prefix 4085252 and remainder 000
026489: *Sep 24 12:43:19.667:
      //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_get_ingress_network:
      ARQ non-std ingress network = 2
026490: *Sep 24 12:43:19.667:
      //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone:
      about to check the destination side, dst_zoneep=0x86006718
026491: *Sep 24 12:43:19.667:
      //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone:
      matched zone is CME, and z_outvianamelen=8
026492: *Sep 24 12:43:19.667:
      //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone
      and z_outvianamep=CME-CUBE
026493: *Sep 24 12:43:19.667: zone_gkid_search_cluster: searching for gkid CME-CUBE
026494: *Sep 24 12:43:19.667: zone_gkid_search_cluster: searching local cluster for
      CME-CUBE, z_gknamep: CME z_flags: 0x3000017
026495: *Sep 24 12:43:19.667:
      //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone:
      Received ARQ for a zone (CME) that has an outviazone (CME-CUBE) specified,
      but I am that viazone. Continue normal ARQ processing
```

## Etapa 24

Gatekeeper-2 seleciona o CME como o gateway de destino e envia seu endereço IP de Um ou Mais Servidores Cisco ICM NT (14.1.103.74) na resposta ACF.

(GK-CUBE-2.txt)

```
026502: *Sep 24 12:43:19.671: H225 NONSTD OUTGOING PDU ::=

value ACFnonStandardInfo ::=
  {
    srcTerminalAlias
    {
      e164 : "9193922000",
      h323-ID : {"CUBE-2"}
    }
    dstTerminalAlias
    {
      e164 : "3#4085252000"
    }
  }

026503: *Sep 24 12:43:19.675: H225 NONSTD OUTGOING ENCODE BUFFER::=
      00020480C4C6C5533340050043005500420045002D00320105806073B8585333
026504: *Sep 24 12:43:19.675:
026505: *Sep 24 12:43:19.675: H225 NONSTD OUTGOING PDU ::=

value RasnonStdUsageTypes ::=
  {
    callModes NULL
```

```
}
```

```
026506: *Sep 24 12:43:19.675: H225 NONSTD OUTGOING ENCODE BUFFER::= 40  
026507: *Sep 24 12:43:19.675:  
026508: *Sep 24 12:43:19.675: RAS OUTGOING PDU ::=
```

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

```
{
```

```
  requestSeqNum 4352
```

```
  bandwidth 7680
```

```
  callModel direct : NULL
```

```
  destCallSignalAddress ipAddress :
```

```
{
```

```
  ip '0E017D7D'H
```

```
  port 1720
```

```
}
```

```
  irrFrequency 240
```

```
  nonStandardData
```

```
{
```

```
  nonStandardIdentifier h221NonStandard :
```

```
{
```

```
  t35CountryCode 181
```

```
  t35Extension 0
```

```
  manufacturerCode 18
```

```
}
```

```
  data '00020480C4C6C553334005004300550042004500...'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
```

```
{
```

```
{
```

```
  nonStandardIdentifier h221NonStandard :
```

```
{
```

```
  t35CountryCode 181
```





```

value RasMessage ::= admissionRequest :
{
  requestSeqNum 1956
  callType pointToPoint : NULL
  callModel direct : NULL
  endpointIdentifier {"860100E800000002"}
  destinationInfo
  {
    dialedDigits : "3#4085252000"
  }
  srcInfo
  {
    dialedDigits : "9193922000",
    h323-ID : {"CUBE-2"}
  }
  srcCallSignalAddress ipAddress :
  {
    ip '0E017B5F'H
    port 11398
  }
  bandwidth 7680
  callReferenceValue 8
  nonStandardData
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '80000010800181'H
  }
  conferenceID '006E38C43570518C030003010E32CA1F'H
  activeMC FALSE
  answerCall TRUE
  canMapAlias TRUE
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  willSupplyUUIEs FALSE
}

```

```

026558: *Sep 24 12:43:19.823: ARQ (seq# 1956) rcvd
026559: *Sep 24 12:43:19.823: H225 NONSTD INCOMING ENCODE BUFFER ::= 80000010800181
026560: *Sep 24 12:43:19.823:
026561: *Sep 24 12:43:19.823: H225 NONSTD INCOMING PDU ::=

```

```

value ARQnonStandardInfo ::=
{
  sourceAlias
  {
  }
  sourceExtAlias
  {
  }
  callingOctet3a 129
}

```

parse\_arq\_nonstd: ARQ Nonstd decode succeeded, remlen = -2060456504

```
026562: *Sep 24 12:43:19.827: //xxxxxxxxxxxx/xxxxxxxxxxxx/GK/gk_rassrv_arq:
      arqp=0x86088C44, crv=0x8, answerCall=1
026563: *Sep 24 12:43:19.827: //006E38C40300/006E38C40300/GK/gk_rassrv_dep_arq:
      ARQ Didn't use GK_AAA_PROC
026564: *Sep 24 12:43:19.827: H225 NONSTD OUTGOING PDU ::=
```

```
value RasnonStdUsageTypes ::=
{
  callModes NULL
}
```

```
026565: *Sep 24 12:43:19.827: H225 NONSTD OUTGOING ENCODE BUFFER ::= 40
026566: *Sep 24 12:43:19.827:
026567: *Sep 24 12:43:19.831: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= admissionConfirm :
{
  requestSeqNum 1956
  bandwidth 7680
  callModel direct : NULL
  destCallSignalAddress ipAddress :
  {
    ip '0E017D7D'H
    port 1720
  }
  irrFrequency 240
  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
        {
          {
            nonStandardIdentifier h221NonStandard :
            {
              t35CountryCode 181
              t35Extension 0
            }
          }
        }
      }
    }
  }
}
```



```

    }
  }
  mc FALSE
  undefinedNode FALSE
}
callIdentifier
{
  guid '006E38C43570518C030003010E32CA1F'H
}
multipleCalls TRUE
maintainConnection TRUE
}
h245Tunneling FALSE
nonStandardControl
{
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '80A1001127F800000000000000000000000000000000...'H
  }
}
}
}
}

```

```

026578: *Sep 24 12:43:19.919: H225 NONSTD INCOMING ENCODE BUFFER::=
      80A1001127F800000000000000000000000000000000000000
026579: *Sep 24 12:43:19.919:
026580: *Sep 24 12:43:19.919: H225 NONSTD INCOMING PDU ::=

```

```

value H323_UU_NonStdInfo ::=
{
  rsvpParam rsvpInfo :
  {
    qosIE
    {
      audio-rport 0
      video-rport 0
      audio-lport 0
      video-lport 0
      media-ip-addr 0
      remote-qos-video-bw 0
      remote-qos-audio-bw 0
      remote-qos-video 0
    }
  }
}

```

```

026581: *Sep 24 12:43:19.923: //-1/xxxxxxxxxxxx/H323/cch323_h225_receiver:
  Received msg of type CALLPROCIND_CHOSEN
026582: *Sep 24 12:43:19.923: //-1/xxxxxxxxxxxx/H323/cch323_decode_qos_info:
  media_ip_addr: 0x0, remote_qos_video: 0, audio_lport: 0, audio_rport: 0,
  video: 0, video_lport: 0, video_rport: 0, remote qos audio bw: 0, remote
  qos video bw: 0
026583: *Sep 24 12:43:19.923: //24/006E38C40300/H323/callproc_ind: ===== PI = 0
026584: *Sep 24 12:43:19.923: //24/006E38C40300/H323/cch323_h225_receiver:

```



```
CALLPROCIND_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026585: *Sep 24 12:43:19.927: //24/006E38C40300/H323/run_h225_sm: Received event
H225_EV_CALLPROC_IND while at state H225_SETUP
026586: *Sep 24 12:43:19.927: //24/006E38C40300/H323/callproc_notify: Peer not
ready so not starting TCP
026587: *Sep 24 12:43:19.927: //24/006E38C40300/CCAPI/cc_api_call_proceeding:
Interface=0x855A8B64, Progress Indication=NULL(0)
```

```
026596: *Sep 24 12:43:19.935: H225.0 INCOMING PDU ::=
```

```
value H323_UserInformation ::=
```

```
{
  h323-uu-pdu
  {
    h323-message-body alerting :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      destinationInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
        }
        gateway
        {
          protocol
          {
            voice :
            {
              supportedPrefixes
              {
                {
                  prefix dialedDigits : "3#"
                }
              }
            },
            h323 :
            {
              supportedPrefixes
              {
            }
          }
        }
        mc FALSE
        undefinedNode FALSE
      }
      callIdentifier
      {
        guid '006E38C43570518C030003010E32CA1F'H
      }
      multipleCalls TRUE
      maintainConnection TRUE
    }
    h245Tunneling FALSE
  }
}
```

026597: \*Sep 24 12:43:19.951: //-1/xxxxxxxxxxxxx/H323/cch323\_h225\_receiver:  
Received msg of type ALERTIND\_CHOSEN  
026598: \*Sep 24 12:43:19.951: //24/006E38C40300/H323/alert\_ind: ===== PI = 0  
026599: \*Sep 24 12:43:19.951: //24/006E38C40300/H323/alert\_ind:  
alert ind ie\_bit\_mask 0x5A60, displayInfo  
026600: \*Sep 24 12:43:19.955: //24/006E38C40300/H323/alert\_ind:  
Rcvd ALERT Display Info IE =  
026601: \*Sep 24 12:43:19.955: //24/006E38C40300/H323/alert\_ind:  
delay H245 address in alert  
026602: \*Sep 24 12:43:19.955: //24/006E38C40300/H323/cch323\_h225\_receiver:  
ALERTIND\_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125  
026603: \*Sep 24 12:43:19.955: //24/006E38C40300/H323/run\_h225\_sm:  
Received event H225\_EV\_ALERT\_IND while at state H225\_CALLPROC  
026604: \*Sep 24 12:43:19.955: //24/006E38C40300/H323/generic\_alert\_notify:  
aData display\_info  
026605: \*Sep 24 12:43:19.955: //24/006E38C40300/CCAPI/cc\_api\_set\_delay\_xport:  
CallInfo(delay xport=TRUE)  
026606: \*Sep 24 12:43:19.955: //24/006E38C40300/CCAPI/cc\_api\_call\_alert:  
Interface=0x855A8B64, Progress Indication=NULL(0), Signal Indication=SIGNAL  
RINGBACK(1)  
026607: \*Sep 24 12:43:19.955: //24/006E38C40300/CCAPI/cc\_api\_call\_alert:  
Call Entry(Retry Count=0, Responded=TRUE)  
026608: \*Sep 24 12:43:19.959: //24/006E38C40300/H323/cch323\_h225\_set\_new\_state:  
Changing from H225\_CALLPROC state to H225\_ALERT state  
026609: \*Sep 24 12:43:19.959: h323chan\_chn\_process\_read\_socket  
026610: \*Sep 24 12:43:19.959: h323chan\_chn\_process\_read\_socket: fd=4 of type  
CONNECTED has data  
026611: \*Sep 24 12:43:19.959: h323chan\_chn\_process\_read\_socket: h323chan  
accepted/connected fd=4  
  
026612: \*Sep 24 12:43:19.959: H225.0 INCOMING ENCODE BUFFER ::= 28501900060008914A  
000400006E38C43570518C030003010E32CA1F10800100  
026613: \*Sep 24 12:43:19.959:  
026614: \*Sep 24 12:43:19.959: H225.0 INCOMING PDU ::=

```
value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body notify :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      callIdentifier
      {
        guid '006E38C43570518C030003010E32CA1F'H
      }
    }
    h245Tunneling FALSE
  }
}
```

026615: \*Sep 24 12:43:19.967: //-1/xxxxxxxxxxxxx/H323/cch323\_h225\_receiver:  
Received msg of type NOTIFYIND\_CHOSEN  
026616: \*Sep 24 12:43:19.967: //24/006E38C40300/H323/notify\_ind:  
Rcvd NOTIFY Display Info IE =  
026617: \*Sep 24 12:43:19.967: //24/006E38C40300/H323/notify\_ind:  
Rcvd NOTIFY Notification Indicator IE = 113  
026618: \*Sep 24 12:43:19.967: //24/006E38C40300/H323/notify\_ind:  
Rcvd NOTIFY Connected Number as IE  
026619: \*Sep 24 12:43:19.967: //24/006E38C40300/H323/notify\_ind:

```
[cnum]/[oct]/[oct3a]= [4085252000]/[0x00]/[0x00]
026620: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_ind:
  Notify data embedded, mask=0x00000007
026621: *Sep 24 12:43:19.967: //24/006E38C40300/H323/cch323_h225_receiver:
  NOTIFYIND_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026622: *Sep 24 12:43:19.967: //24/006E38C40300/H323/run_h225_sm:
  Received event H225_EV_NOTIFY_IND while at state H225_ALERT
026623: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_msg_notify:
  Notify data found, mask=0x00000007
026624: *Sep 24 12:43:19.967: //24/006E38C40300/CCAPI/cc_api_call_notify:
  Data Bitmask=0x7, Interface=0x855A8B64, Call Id=24
026625: *Sep 24 12:43:19.971: //23/006E38C40300/CCAPI/ccCallAlert:
  Progress Indication=NULL(0), Signal Indication=SIGNAL_RINGBACK(1)
026626: *Sep 24 12:43:19.975: //23/006E38C40300/CCAPI/ccCallAlert:
  Call Entry(Responded=TRUE, AlertSent=TRUE)
```

```
026679: *Sep 24 12:43:25.204: H225.0 INCOMING PDU ::=
```

```
value H323_UserInformation ::=
```

```
{
  h323-uu-pdu
  {
    h323-message-body connect :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      h245Address ipAddress :
      {
        ip '0E017D7D'H
        port 11360
      }
      destinationInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
        }
        gateway
        {
          protocol
          {
            voice :
            {
              supportedPrefixes
              {
                {
                  prefix dialedDigits : "3#"
                }
              }
            }
          },
          h323 :
          {
            supportedPrefixes
            {
              {
            }
          }
        }
      }
    }
  }
}
```

```

    mc FALSE
    undefinedNode FALSE
  }
  conferenceID '006E38C43570518C030003010E32CA1F'H
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  multipleCalls TRUE
  maintainConnection TRUE
}
h245Tunneling FALSE
}
}

```

```

026680: *Sep 24 12:43:25.224: //-1/xxxxxxxxxxxxx/H323/cch323_h225_receiver:
  Received msg of type SETUPCFM_CHOSEN
026681: *Sep 24 12:43:25.224: //24/006E38C40300/H323/setup_cfm_ind: ===== PI = 0
026682: *Sep 24 12:43:25.224: //24/006E38C40300/H323/setup_cfm_ind:
  Set new event H225_EV_SETUP_CFM_IND
026683: *Sep 24 12:43:25.224: //24/006E38C40300/H323/setup_cfm_ind:
  Rcvd CONNECT Display Info IE =
026684: *Sep 24 12:43:25.228: //24/006E38C40300/H323/cch323_h225_receiver:
  SETUPCFM_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026685: *Sep 24 12:43:25.228: //24/006E38C40300/H323/run_h225_sm:
  Received event H225_EV_SETUP_CFM_IND while at state H225_ALERT
026686: *Sep 24 12:43:25.228: //24/006E38C40300/H323/setup_cfm_notify:
  status = 8000009
026687: *Sep 24 12:43:25.228: //24/006E38C40300/H323/generic_setup_cfm_notify:
  ===== PI = 0; status = 88000009
026688: *Sep 24 12:43:25.228: //24/006E38C40300/CCAPI/cc_api_call_connected:
  Interface=0x855A8B64, Data Bitmask=0x1, Progress Indication=NULL(0),
  Connection Handle=0

```

## [Etapa 28](#)

A negociação H.245 ocorre. Os córregos audio e video RTP são estabelecidos

(GK-CUBE-2.txt)

```

026577: *Sep 24 12:43:19.895: H225.0 INCOMING PDU ::=

value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body callProceeding :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      destinationInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
        }
      }
    }
  }
}

```

```

}
gateway
{
  protocol
  {
    voice :
    {
      supportedPrefixes
      {
        {
          prefix dialedDigits : "3#"
        }
      }
    },
    h323 :
    {
      supportedPrefixes
      {
        {
        }
      }
    }
  }
  mc FALSE
  undefinedNode FALSE
}
callIdentifier
{
  guid '006E38C43570518C030003010E32CA1F'H
}
multipleCalls TRUE
maintainConnection TRUE
}
h245Tunneling FALSE
nonStandardControl
{
  {
    nonStandardIdentifier h221NonStandard :
    {
      t35CountryCode 181
      t35Extension 0
      manufacturerCode 18
    }
    data '80A1001127F800000000000000000000000000000000...'H
  }
}
}
}

```

```

026578: *Sep 24 12:43:19.919: H225 NONSTD INCOMING ENCODE BUFFER::=
      80A1001127F80000000000000000000000000000000000000000000000000000
026579: *Sep 24 12:43:19.919:
026580: *Sep 24 12:43:19.919: H225 NONSTD INCOMING PDU ::=

```

```

value H323_UU_NonStdInfo ::=
{
  rsvpParam rsvpInfo :
  {
    qosIE
    {
      audio-rport 0
      video-rport 0
    }
  }
}

```

```
    audio-lport 0
    video-lport 0
    media-ip-addr 0
    remote-qos-video-bw 0
    remote-qos-audio-bw 0
    remote-qos-video 0
  }
}
```

```
026581: *Sep 24 12:43:19.923: //-1/xxxxxxxxxxxxx/H323/cch323_h225_receiver:
    Received msg of type CALLPROCIND_CHOSEN
026582: *Sep 24 12:43:19.923: //-1/xxxxxxxxxxxxx/H323/cch323_decode_qos_info:
    media_ip_addr: 0x0, remote_qos_video: 0, audio_lport: 0, audio_rport: 0,
    video: 0, video_lport: 0, video_rport: 0, remote_qos audio bw: 0, remote
    qos video bw: 0
026583: *Sep 24 12:43:19.923: //24/006E38C40300/H323/callproc_ind: ===== PI = 0
026584: *Sep 24 12:43:19.923: //24/006E38C40300/H323/cch323_h225_receiver:
    CALLPROCIND_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026585: *Sep 24 12:43:19.927: //24/006E38C40300/H323/run_h225_sm: Received event
    H225_EV_CALLPROC_IND while at state H225_SETUP
026586: *Sep 24 12:43:19.927: //24/006E38C40300/H323/callproc_notify: Peer not
    ready so not starting TCP
026587: *Sep 24 12:43:19.927: //24/006E38C40300/CCAPI/cc_api_call_proceeding:
    Interface=0x855A8B64, Progress Indication=NULL(0)
```

```
026596: *Sep 24 12:43:19.935: H225.0 INCOMING PDU ::=
```

```
value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body alerting :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      destinationInfo
      {
        vendor
        {
          vendor
          {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
          }
        }
      }
      gateway
      {
        protocol
        {
          voice :
          {
            supportedPrefixes
            {
              {
                prefix dialedDigits : "3#"
              }
            }
          }
        }
      },
      h323 :
      {
```

```

        supportedPrefixes
        {
        }
    }
}
}
mc FALSE
undefinedNode FALSE
}
callIdentifier
{
    guid '006E38C43570518C030003010E32CA1F'H
}
multipleCalls TRUE
maintainConnection TRUE
}
h245Tunneling FALSE
}
}

```

```

026597: *Sep 24 12:43:19.951: //-1/xxxxxxxxxxxx/H323/cch323_h225_receiver:
    Received msg of type ALERTIND_CHOSEN
026598: *Sep 24 12:43:19.951: //24/006E38C40300/H323/alert_ind: ===== PI = 0
026599: *Sep 24 12:43:19.951: //24/006E38C40300/H323/alert_ind:
    alert ind ie_bit_mask 0x5A60, displayInfo
026600: *Sep 24 12:43:19.955: //24/006E38C40300/H323/alert_ind:
    Rcvd ALERT Display Info IE =
026601: *Sep 24 12:43:19.955: //24/006E38C40300/H323/alert_ind:
    delay H245 address in alert
026602: *Sep 24 12:43:19.955: //24/006E38C40300/H323/cch323_h225_receiver:
    ALERTIND_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026603: *Sep 24 12:43:19.955: //24/006E38C40300/H323/run_h225_sm:
    Received event H225_EV_ALERT_IND while at state H225_CALLPROC
026604: *Sep 24 12:43:19.955: //24/006E38C40300/H323/generic_alert_notify:
    aData display_info
026605: *Sep 24 12:43:19.955: //24/006E38C40300/CCAPI/cc_api_set_delay_xport:
    CallInfo(delay xport=TRUE)
026606: *Sep 24 12:43:19.955: //24/006E38C40300/CCAPI/cc_api_call_alert:
    Interface=0x855A8B64, Progress Indication=NULL(0), Signal Indication=SIGNAL
    RINGBACK(1)
026607: *Sep 24 12:43:19.955: //24/006E38C40300/CCAPI/cc_api_call_alert:
    Call Entry(Retry Count=0, Responded=TRUE)
026608: *Sep 24 12:43:19.959: //24/006E38C40300/H323/cch323_h225_set_new_state:
    Changing from H225_CALLPROC state to H225_ALERT state
026609: *Sep 24 12:43:19.959: h323chan_chn_process_read_socket
026610: *Sep 24 12:43:19.959: h323chan_chn_process_read_socket: fd=4 of type
    CONNECTED has data
026611: *Sep 24 12:43:19.959: h323chan_chn_process_read_socket: h323chan
    accepted/connected fd=4

026612: *Sep 24 12:43:19.959: H225.0 INCOMING ENCODE BUFFER ::= 28501900060008914A
    000400006E38C43570518C030003010E32CA1F10800100
026613: *Sep 24 12:43:19.959:
026614: *Sep 24 12:43:19.959: H225.0 INCOMING PDU ::=

```

```

value H323_UserInformation ::=
{
    h323-uu-pdu
    {
        h323-message-body notify :
        {
            protocolIdentifier { 0 0 8 2250 0 4 }

```

```
    callIdentifier
    {
        guid '006E38C43570518C030003010E32CA1F'H
    }
}
h245Tunneling FALSE
}
```

```
026615: *Sep 24 12:43:19.967: //-1/xxxxxxxxxxxxx/H323/cch323_h225_receiver:
    Received msg of type NOTIFYIND_CHOSEN
026616: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_ind:
    Rcvd NOTIFY Display Info IE =
026617: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_ind:
    Rcvd NOTIFY Notification Indicator IE = 113
026618: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_ind:
    Rcvd NOTIFY Connected Number as IE
026619: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_ind:
    [cnum]/[oct]/[oct3a]= [4085252000]/[0x00]/[0x00]
026620: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_ind:
    Notify data embedded, mask=0x00000007
026621: *Sep 24 12:43:19.967: //24/006E38C40300/H323/cch323_h225_receiver:
    NOTIFYIND_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026622: *Sep 24 12:43:19.967: //24/006E38C40300/H323/run_h225_sm:
    Received event H225_EV_NOTIFY_IND while at state H225_ALERT
026623: *Sep 24 12:43:19.967: //24/006E38C40300/H323/notify_msg_notify:
    Notify data found, mask=0x00000007
026624: *Sep 24 12:43:19.967: //24/006E38C40300/CCAPI/cc_api_call_notify:
    Data Bitmask=0x7, Interface=0x855A8B64, Call Id=24
026625: *Sep 24 12:43:19.971: //23/006E38C40300/CCAPI/ccCallAlert:
    Progress Indication=NULL(0), Signal Indication=SIGNAL_RINGBACK(1)
026626: *Sep 24 12:43:19.975: //23/006E38C40300/CCAPI/ccCallAlert:
    Call Entry(Responded=TRUE, AlertSent=TRUE)
```

```
026679: *Sep 24 12:43:25.204: H225.0 INCOMING PDU ::=
```

```
value H323_UserInformation ::=
{
    h323-uu-pdu
    {
        h323-message-body connect :
        {
            protocolIdentifier { 0 0 8 2250 0 4 }
            h245Address ipAddress :
            {
                ip '0E017D7D'H
                port 11360
            }
            destinationInfo
            {
                vendor
                {
                    vendor
                    {
                        t35CountryCode 181
                        t35Extension 0
                        manufacturerCode 18
                    }
                }
            }
            gateway
```



```

    {
      protocol
      {
        voice :
        {
          supportedPrefixes
          {
            {
              prefix dialedDigits : "3#"
            }
          }
        },
          h323 :
          {
            supportedPrefixes
            {
            }
          }
        }
      }
      mc FALSE
      undefinedNode FALSE
    }
    conferenceID '006E38C43570518C030003010E32CA1F'H
    callIdentifier
    {
      guid '006E38C43570518C030003010E32CA1F'H
    }
    multipleCalls TRUE
    maintainConnection TRUE
  }
  h245Tunneling FALSE
}
}

```

```

026680: *Sep 24 12:43:25.224: //-1/xxxxxxxxxxxx/H323/cch323_h225_receiver:
  Received msg of type SETUPCFM_CHOSEN
026681: *Sep 24 12:43:25.224: //24/006E38C40300/H323/setup_cfm_ind: ===== PI = 0
026682: *Sep 24 12:43:25.224: //24/006E38C40300/H323/setup_cfm_ind:
  Set new event H225_EV_SETUP_CFM_IND
026683: *Sep 24 12:43:25.224: //24/006E38C40300/H323/setup_cfm_ind:
  Rcvd CONNECT Display Info IE =
026684: *Sep 24 12:43:25.228: //24/006E38C40300/H323/cch323_h225_receiver:
  SETUPCFM_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125
026685: *Sep 24 12:43:25.228: //24/006E38C40300/H323/run_h225_sm:
  Received event H225_EV_SETUP_CFM_IND while at state H225_ALERT
026686: *Sep 24 12:43:25.228: //24/006E38C40300/H323/setup_cfm_notify:
  status = 8000009
026687: *Sep 24 12:43:25.228: //24/006E38C40300/H323/generic_setup_cfm_notify:
  ===== PI = 0; status = 88000009
026688: *Sep 24 12:43:25.228: //24/006E38C40300/CCAPI/cc_api_call_connected:
  Interface=0x855A8B64, Data Bitmask=0x1, Progress Indication=NULL(0),
  Connection Handle=0

```

## [Etapa 29](#)

4085252000 penduram acima o atendimento. CUBE-2 recebe H225 Liberação-completo do CME.

027697: \*Sep 24 12:44:23.720: H225.0 INCOMING PDU ::=

```
value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body releaseComplete :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      callIdentifier
      {
        guid '006E38C43570518C030003010E32CA1F'H
      }
    }
    h245Tunneling FALSE
  }
}
```

027698: \*Sep 24 12:44:23.724: //-1/xxxxxxxxxxxxx/H323/cch323\_h225\_receiver:

Received msg of type RELEASEIND\_CHOSEN

027699: \*Sep 24 12:44:23.724: //24/006E38C40300/H323/release\_ind:

Disconnect cause 16 location code 0

027700: \*Sep 24 12:44:23.724: //24/006E38C40300/H323/cch323\_h225\_receiver:

RELEASEIND\_CHOSEN: src address = 14.1.123.95; dest address = 14.1.125.125

027701: \*Sep 24 12:44:23.724: //24/006E38C40300/H323/run\_h225\_sm:

Received event H225\_EV\_RELEASE\_IND while at state H225\_ACTIVE

027702: \*Sep 24 12:44:23.728: //24/006E38C40300/CCAPI/cc\_api\_call\_disconnected:

Cause Value=16, Interface=0x855A8B64, Call Id=24

027703: \*Sep 24 12:44:23.728: //24/006E38C40300/CCAPI/cc\_api\_call\_disconnected:

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

## Etapa 30

Após a recepção/enviar Liberação-completa, o CCM, CUBE-1, CUBE-2 e o CME enviam uma requisição de desligamento (DRQ) a seus porteiros respectivos.

(GK-CUBE-2.txt)

027712: \*Sep 24 12:44:23.736: RAS INCOMING PDU ::=

```
value RasMessage ::= disengageRequest :
{
  requestSeqNum 1960
  endpointIdentifier {"860100E800000002"}
  conferenceID '006E38C43570518C030003010E32CA1F'H
  callReferenceValue 8
  disengageReason normalDrop : NULL
  callIdentifier
  {
    guid '006E38C43570518C030003010E32CA1F'H
  }
  answeredCall TRUE
  usageInformation
  {
    nonStandardUsageFields
    {
      {
        nonStandardIdentifier h221NonStandard :
        {
```

```

        t35CountryCode 181
        t35Extension 0
        manufacturerCode 18
    }
    data '584020020100'H
}
}
connectTime 1220898589
endTime 1220898647
}
terminationCause releaseCompleteCauseIE : '08028090'H
}

```

## [Etapa 31](#)

CUBE-2 envia Liberação-completo a CUBE-1, que envia então uma mensagem Liberação-completa correspondente ao gerente das comunicações unificadas de Cisco e às desconexões do atendimento.

(GK-CUBE-2.txt)

```

027733: *Sep 24 12:44:23.768: //23/006E38C40300/H323/run_h225_sm:
    Received event H225_EV_RELEASE while at state H225_ACTIVE
027734: *Sep 24 12:44:23.768: //23/006E38C40300/H323/cch323_h225_set_new_state:
    Changing from H225_ACTIVE state to H225_WAIT_FOR_DRQ state
027735: *Sep 24 12:44:23.768: //23/006E38C40300/H323/cch323_h225_send_release:
    Cause = 16; Location = 0
027736: *Sep 24 12:44:23.768: //23/006E38C40300/H323/cch323_h225_send_release:
    h225TerminateRequest: src address = 234978143; dest address = 14.50.201.17
027737: *Sep 24 12:44:23.768: H225.0 OUTGOING PDU ::=

```

```

value H323_UserInformation ::=
{
    h323-uu-pdu
    {
        h323-message-body releaseComplete :
        {
            protocolIdentifier { 0 0 8 2250 0 4 }
            callIdentifier
            {
                guid '006E38C43570518C030003010E32CA1F'H
            }
        }
        h245Tunneling FALSE
    }
}

```

## [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](#)