

Flujo de llamada video de H.323 a través del CUBO y del gatekeeper de Cisco

Contenido

[Introducción](#)

[prerrequisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

[Convenciones](#)

[Configurar](#)

[Diagrama de la red](#)

[Configuraciones](#)

[Verificación](#)

[Gateway](#)

[CUBO](#)

[Troubleshooting](#)

[Comandos de Debug](#)

[Ejemplo del flujo de llamada](#)

[‘Resultados de la depuración’](#)

[Información Relacionada](#)

[Introducción](#)

El objetivo de este documento es proporcionar la configuración y la información de Troubleshooting para el vídeo de H.323 llama a través del Cisco Unified Border Element (CUBO) y del gatekeeper de Cisco.

Detalles de la topología de red:

Hay dos sitios:

- Site-1 utiliza al administrador unificado Cisco de la comunicación.
- Site-2 las aplicaciones Cisco unificaron al administrador de la comunicación expreso (CME).

Cada sitio tiene un CUBO y un portero coimplantados en el mismo dispositivo. Configuran al portero en Site-1 como gatekeeper remoto en Site-2 y viceversa. las llamadas del Inter-sitio se rutean a través del CUBO (modo del atraviase) situado en cada sitio. Cisco unificó el administrador y el CUBO de la comunicación en el tecnología-prefijo #2 del uso del sitio 1. El CME y el CUBO en el sitio 2 utilizan el tecnología-prefijo #3.

Las cámaras y el teléfono del IP de la ventaja del uso VT de los usuarios para hacer el audio/el vídeo llama.

prerrequisitos

Requisitos

No hay requisitos específicos para este documento.

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Cisco Unified CallManager — 6.1.1.3000-2
- CUBO y portero — Cisco IOS Software Release 12.4(15)T6
- Cisco CallManager expreso — Cisco IOS Software Release 12.4(15)T6

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Convenciones

Consulte [Convenciones de Consejos TécnicosCisco](#) para obtener más información sobre las convenciones del documento.

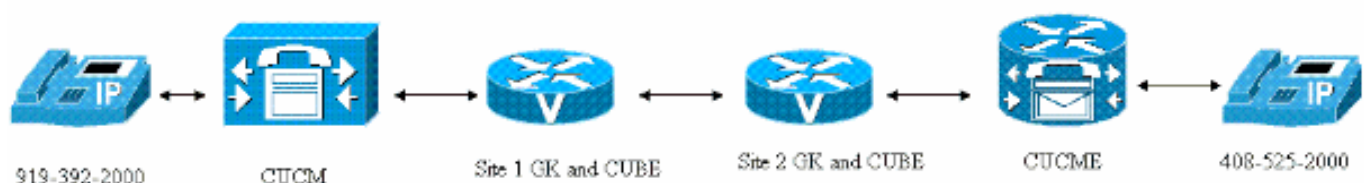
Configurar

En esta sección encontrará la información para configurar las funciones descritas en este documento.

Note: Use la herramienta [Command Lookup Tool](#) ([clientes registrados solamente](#)) para encontrar más información sobre los comandos usados en este documento.

Diagrama de la red

En este documento, se utiliza esta configuración de red:



Configuraciones

En este documento, se utilizan estas configuraciones:

- CUBO y configuración de control de acceso en Site-1

- CUBO y configuración de control de acceso en Site-2
- Configuración CME
- Cisco unificó la configuración de administrador de la comunicación

CUBO y configuración de control de acceso en 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 y configuración de control de acceso en 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
```

Configuración 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 unificó la configuración de administrador de la comunicación

Complete estos pasos:

1. Configure a un portero (dispositivo > portero) en la página unificada Cisco del control del administrador de la comunicación.



Cisco Unified CM Administration

For Cisco Unified Communications Solutions

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾

Gatekeeper Configuration

Save Delete Reset Add New

Status

Status: Ready

Gatekeeper Information

Host Name/IP Address*	<input type="text" value="14.50.201.17"/>
Description	<input type="text" value="14.50.201.17"/>
Registration Request Time to Live*	<input type="text" value="60"/>
Registration Retry Timeout*	<input type="text" value="300"/>

Enable Device

*- indicates required item.

2. Configure un trunk controlado portero H.225 (trunk del → del dispositivo) en la página del control del administrador de las Comunicaciones unificadas de Cisco con los parámetros del nombre, del tipo de terminal, del prefijo de tecnología y de la zona del portero.



Trunk Configuration

Save Delete Reset Add New

Status

Status: Ready

Device Information

Product:	H.225 Trunk (Gatekeeper Controlled)
Device Protocol:	H.225
Device Name *	CCM-GK-Trunk
Description	
Device Pool *	Default
Common Device Configuration	< None >
Call Classification *	Use System Default
Media Resource Group List	< None >
Location *	Hub_None
AAR Group	< None >
Tunneled Protocol *	None
Packet Capture Mode *	None
Packet Capture Duration	0
<input type="checkbox"/> Media Termination Point Required	
<input checked="" type="checkbox"/> Retry Video Call as Audio	
<input type="checkbox"/> Wait for Far End H.245 Terminal Capability Set	
<input type="checkbox"/> Path Replacement Support	
<input type="checkbox"/> Transmit UTF-8 for Calling Party Name	
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> SRTP Allowed - When this flag is checked, IPsec needs to be configured in the network to provide encryption	

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain < None >


Call Routing Information	
Inbound Calls	
Significant Digits*	All
Calling Search Space	< None >
AAR Calling Search Space	< None >
Prefix DN	
<input checked="" type="checkbox"/> Redirecting Number IE Delivery - Inbound	
<input type="checkbox"/> Enable Inbound FastStart	
Outbound Calls	
Calling Party Selection*	Originator
Calling Line ID Presentation*	Default
Called Party IE Number Type Unknown*	Cisco CallManager
Calling Party IE Number Type Unknown*	Cisco CallManager
Called Numbering Plan*	Cisco CallManager
Calling Numbering Plan*	Cisco CallManager
Caller ID DN	
<input checked="" type="checkbox"/> Display IE Delivery	
<input checked="" type="checkbox"/> Redirecting Number IE Delivery - Outbound	
<input type="checkbox"/> Enable Outbound FastStart	
Codec For Outbound FastStart	G711 u-law 64K
Gatekeeper Information	
Gatekeeper Name*	14.50.201.17
Terminal Type*	Gateway
Technology Prefix	2#
Zone	CCM

- Configure a un patrón de ruta para rutear las llamadas a 4085252000 a través del trunk H.225 configurado en el paso 2. Observe que el campo de los dígitos del prefijo (llamadas salientes) está fijado a **3#**.

Route Pattern Configuration

 Save
  Delete
  Copy
  Add New

Status

 Status: Ready

Pattern Definition

Route Pattern*	<input type="text" value="4085252000"/>
Route Partition	< None > ▾
Description	<input type="text"/>
Numbering Plan	-- Not Selected -- ▾
Route Filter	< None > ▾
MLPP Precedence*	Default ▾
Gateway/Route List*	CCM-GK-Trunk ▾ (Edit)
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="No Error"/> ▾
Call Classification*	<input type="text" value="OffNet"/> ▾
<input type="checkbox"/> Allow Device Override <input checked="" type="checkbox"/> Provide Outside Dial Tone <input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority	
<input type="checkbox"/> Require Forced Authorization Code	
Authorization Level*	<input type="text" value="0"/>
<input type="checkbox"/> Require Client Matter Code	

Calling Party Transformations

<input type="checkbox"/> Use Calling Party's External Phone Number Mask	
Calling Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	<input type="text"/>
Calling Line ID Presentation*	Default ▾
Calling Name Presentation*	Default ▾

Connected Party Transformations	
Connected Line ID Presentation*	Default <input type="button" value="v"/>
Connected Name Presentation*	Default <input type="button" value="v"/>





Called Party Transformations	
Discard Digits	< None > <input type="button" value="v"/>
Called Party Transform Mask	<input type="text"/>
Prefix Digits (Outgoing Calls)	3# <input type="text"/>

ISDN Network-Specific Facilities Information Element	
Network Service Protocol	-- Not Selected -- <input type="button" value="v"/>
Carrier Identification Code	<input type="text"/>
Network Service	Service Parameter Name
-- Not Selected -- <input type="button" value="v"/>	< Not Exist > <input type="text"/>

- Configure a un patrón de traducción para eliminar el 2# en las llamadas entrantes a través del trunk H225.

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾

Translation Pattern Configuration

 Save
  Delete
  Copy
  Add New

Pattern Definition

Translation Pattern:
 Partition:
 Description:
 Numbering Plan:
 Route Filter:
 MLPP Precedence*:
 Calling Search Space:
 Route Option:

 Route this pattern

 Block this pattern

 Provide Outside Dial Tone

 Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

 Calling Party Transform Mask:

 Prefix Digits (Outgoing Calls):

 Calling Line ID Presentation*:

 Calling Name Presentation*:

Connected Party Transformations

Connected Line ID Presentation*:

 Connected Name Presentation*:

Called Party Transformations

Discard Digits:

 Called Party Transform Mask:

 Prefix Digits (Outgoing Calls):

Done

Verificación

Utilice esta sección para confirmar sus trabajos de la configuración correctamente.

[La herramienta Output Interpreter Tool \(clientes registrados solamente\)](#) (OIT) soporta ciertos comandos show. Utilice la OIT para ver un análisis del resultado del comando show.

Gateway

Utilice esta sección para confirmar que su configuración trabaja correctamente en el Cisco IOS Gatekeeper.

Recogieron a estos comandos show del portero después de habilitar el **gatekeeper main 10** del **debug**:

- **Show gatekeeper endpoints**Gatekeeper-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_prots: 0x00000050
  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_prots: 0x00000050
  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_prots: 0x00000050
  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_prots: 0x00000050
  H323-ID: CME-1
  Voice Capacity Max.= Avail.= Current.= 1
Total number of active registrations = 2
```

- **Muestre el GW-tipo-prefijo del portero**Gatekeeper-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**

• Muestre las llamadas del portero 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

Utilice esta sección para confirmar que su configuración trabaja correctamente en el 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
```

• Muestre a llamada la descripción activa del vídeoCube-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

```

• Muestre las conexiones del rtp del voipCube-1

```

VoIP RTP active connections :
No. CallId      dstCallId  LocalRTP  RmtRTP  LocalIP      RemoteIP
1   2153       2154      17782   18956   14.50.201.17 14.50.202.31
2   2154       2153      16418   19496   14.50.201.17 14.1.123.95
3   2155       2156      16564   5445    14.50.201.17 14.50.201.44
4   2156       2155      19332   17180   14.50.201.17 14.1.123.95
Found 4 active RTP connections

```

Cube-2

```

VoIP RTP active connections :
No. CallId      dstCallId  LocalRTP  RmtRTP  LocalIP      RemoteIP
1   23         24        19496   16418   14.1.123.95  14.50.201.17
2   24         23        16772   16904   14.1.123.95  14.1.125.125
3   25         26        17180   19332   14.1.123.95  14.50.201.17
4   26         25        17338   17224   14.1.123.95  14.1.125.125
Found 4 active RTP connections

```

Troubleshooting

Use esta sección para resolver problemas su configuración.

Comandos de Debug

Configure el Cisco IOS Gateway para registrar los debugs en su memoria intermedia de registro y para inhabilitar la **consola de registro**.

Note: Consulte [Información Importante sobre Comandos de Debug](#) antes de usar un **comando debug**.

Note: Los comandos show and debug por problemas comunes están disponibles en la [herramienta de búsqueda del debug de la voz multiservicio](#).

Éstos son los comandos usados para configurar el gateway para salvar los debugs en memoria intermedia de registro del gateway:

- **service timestamps debug datetime msec**
- **mantenga la secuencia**

- ninguna consola de registro
- el registro mitigó el debug 5000000
- borre el registro

CUBIQUE los debugs

- debug voip ccapi inout
- haga el debug de los ras
- debug h225 asn1
- haga el debug del asn1 h245
- debug cch323 h225
- debug cch323 h245
- ipipgw del voip del debug

Debugs del portero

- ras del debug
- gatekeeper main 10 del debug
- llamada 10 del portero del debug
- zona de gatekeeper 10 del debug

Ejemplo del flujo de llamada

Esta sección describe el flujo de llamada ese los resultados de este ejemplo de configuración.

1. [El teléfono del IP \(919-392-2000\) hace una llamada al teléfono del IP \(408-525-2000\)](#)
2. [Cisco unificó al administrador de la comunicación prefija un 3# al llamar-número y envía una petición ARQ al portero en Site-1](#)
3. [Gatekeeper-1 identifica que la llamada es entrante de la zona de CCM y marca si hay una zona del invia configurada](#)
4. [Gatekeeper-1 determina CCM-CUBE como la zona del invia para la zona CCM e intenta encontrar un gateway IP-IP en la zona CCM-CUBE](#)
5. [Gatekeeper-1 encuentra el gateway local IP-IP \(CUBE-1\) y envía la dirección IP del gateway \(14.50.201.17\) en la respuesta ACF](#)
6. [Cisco unificó al administrador de la comunicación envía un mensaje setup H225 a CUBE-1](#)
7. [CUBE-1 envía una petición ARQ con el "answerCall" fijó PARA VERDAD a Gatekeeper-1](#)
8. [Gatekeeper-1 envía una respuesta ACF a CUBE-1](#)
9. [CUBE-1 después hace juego el dial peer de entrada 919 y al dial-peer de salida 408 y envía una petición ARQ para 3#4085252000 a Gatekeeper-1](#)
10. [CUBE-1 envía el mensaje de procedimiento de la llamada H225 a Cisco unificó al administrador de la comunicación](#)
11. [Pues no hay zonas del invia configuradas para la zona CCM-CUBE, Gatekeeper-1 realiza el proceso normal ARQ. Encuentra el tecnología-prefijo 3# en el número de destino](#)
12. [3# se configura como prefijo del hopoff para la zona remota CME-CUBE. Por lo tanto, Gatekeeper-1 envía un LRQ \(Location Request\) a Gatekeeper-2](#)
13. [Gatekeeper-2 recibe el LRQ y lo identifica que el LRQ es de la zona remota CCM-CUBE. Marca si hay una zona del invia configurada para la zona remota CCM-CUBE](#)
14. [Gatekeeper-2 determina CME-CUBE como la zona del invia para la zona CCM-CUBE e intenta encontrar un gateway IP-IP en CME-CUBE](#)

15. [Gatekeeper-2 encuentra el gateway local IP-IP \(CUBE-2\) y envía la dirección IP del gateway \(14.1.123.95\) en la respuesta LCF](#)
16. [Gatekeeper-1 recibe la respuesta LCF y envía una respuesta ACF con la dirección IP de CUBE-2 a CUBE-1](#)
17. [CUBE-1 envía un mensaje setup H225 a CUBE-2](#)
18. [CUBE-2 envía una petición ARQ con el "answerCall" fijó PARA VERDAD a Gatekeeper-2](#)
19. [Gatekeeper-2 envía una respuesta ACF a CUBE-2](#)
20. [CUBE-2 después hace juego el dial peer de entrada 919 y al dial-peer de salida 408 y envía una petición ARQ para 3#4085252000 a Gatekeeper-2](#)
21. [CUBE-2 envía un mensaje de procedimiento de la llamada H225 a CUBE-1](#)
22. [Porque no hay zonas del invia configuradas para la zona CCM-CUBE, Gatekeeper-2 realiza el proceso normal ARQ. Encuentra el prefijo de la tecnología 3# en el número de destino](#)
23. [Gatekeeper-2 utiliza los dígitos restantes \(4085252000\) para encontrar una coincidencia del prefijo de zona. Determina que la zona CME puede manejar este prefijo 408 e intentos para encontrar un gateway que se registre en la zona CME con un tecnología-prefijo 3#](#)
24. [Gatekeeper-2 selecciona el CME como el gateway de destino y envía su dirección IP \(14.1.103.74\) en la respuesta ACF](#)
25. [CUBE-2 recibe la respuesta ACF y envía un mensaje setup H225 al CME](#)
26. [El portero recibe una petición ARQ con el "answerCall" fijó PARA VERDAD del CME y envía una respuesta ACF](#)
27. [CUBE-2 recibe el procedimiento, alertar y los mensajes CONNECT de la llamada H225 del CME, que entonces se devuelven hasta el final al administrador de las Comunicaciones unificadas de Cisco](#)
28. [La negociación H.245 ocurre. Se establecen las secuencias audios y video RTP](#)
29. [4085252000 cuelga para arriba la llamada. CUBE-2 recibe el H225 Versión-completo del CME](#)
30. [Después de recibir/envío Versión-completo, CCM, CUBE-1, CUBE-2 y el CME envían un pedido de desconexión \(DRQ\) a sus porteros respectivos](#)
31. [CUBE-2 envía Versión-completo a CUBE-1, que entonces envía un mensaje Versión-completo correspondiente al administrador de las Comunicaciones unificadas de Cisco y a las desconexiones de la llamada](#)

'Resultados de la depuración'

Esta sección proporciona las salidas de los debugs para el flujo de llamada discutido en esta sección.

Haga clic estos enlaces hipertexto para la salida de los debugs completa:

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

Paso 1

El teléfono del IP (919-392-2000) hace una llamada al teléfono del IP (408-525-2000).

Paso 2

Cisco unificó al administrador de la comunicación prefija un 3# al llamar-número y envía una petición ARQ al portero en 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
}
```

Paso 3

Gatekeeper-1 identifica que la llamada es entrante de la zona de CCM y marca si hay una zona del 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
```

Paso 4

Gatekeeper-1 determina CCM-CUBE como la zona del invia para la zona CCM e intenta encontrar un gateway IP-IP en la zona CCM-CUBE.

(GK-CUBE-1.txt)

```
008886: *Jul 24 06:49:52.600: //006E38C40300/006E38C40300/GK/rassrv_arq_select_viazone
and z_invia_namep=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
```

Paso 5

Gatekeeper-1 encuentra el gateway local IP-IP (CUBE-1) y envía la dirección IP del gateway (14.50.201.17) en la respuesta ACF.

(GK-CUBE-1.txt)

```
008895: *Jul 24 06:49:52.604:
//xxxxxxxxxxxxxxxx/xxxxxxxxxxxxxxxx/GK/gk_gw_select_ipipgw_random: Found an IPIPGW.
tgwp: 0x84EAL70C, endptsigIP: 14.50.201.17,
endptrasIP: 14.50.201.17, zone: CCM-CUBE
008896: *Jul 24 06:49:52.604:
//xxxxxxxxxxxxxxxx/xxxxxxxxxxxxxxxx/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
}
}

```

Paso 6

Cisco unificó al administrador de la comunicación envía un mensaje setup 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/xxxxxxxxxxxxx/H323/cch323_h225_receiver:
Received msg of type SETUPIND_CHOSEN
008918: *Jul 24 06:49:52.664: //-1/xxxxxxxxxxxxx/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

```

[Paso 7](#)

CUBE-1 envía una petición ARQ con el "answerCall" fijó PARA VERDAD 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
}
```

Paso 8

Gatekeeper-1 envía una respuesta 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
      }
    }
  }
}
```

CUBE-1 después hace juego el dial peer de entrada 919 y al dial-peer de salida 408 y envía una petición 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
}

```

[Paso 10](#)

CUBE-1 envía el mensaje de procedimiento de la llamada H225 a Cisco unificó al administrador de la comunicación.

```

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
}
}

```

[Paso 11](#)

Pues no hay zonas del invia configuradas para la zona CCM-CUBE, Gatekeeper-1 realiza el proceso normal ARQ. Encuentra el tecnología-prefijo 3# en el 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:
//xxxxxxxxxxxxxx/xxxxxxxxxxxxxx/GK/gk_rassrv_get_ingress_network:
ARQ non-std ingress network = 2

```

[Paso 12](#)

3# se configura como prefijo del hopoff para la zona remota CME-CUBE. Por lo tanto, Gatekeeper-1 envía un 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
}
```

Paso 13

Gatekeeper-2 recibe el LRQ y lo identifica que el LRQ es de la zona remota CCM-CUBE. Marca si hay una zona del invia configurada para la 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
```

Paso 14

Gatekeeper-2 determina CME-CUBE como la zona del invia para la zona CCM-CUBE e intenta encontrar un gateway IP-IP en 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, ttp: 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
```

Paso 15

Gatekeeper-2 encuentra el gateway local IP-IP (CUBE-2) y envía la dirección IP del gateway (14.1.123.95) en la respuesta 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:
//xxxxxxxxxxxxxx/xxxxxxxxxxxxxx/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
}
}

```

Paso 16

Gatekeeper-1 recibe la respuesta LCF y envía una respuesta ACF con la dirección IP 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 :
        {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
        }
        data '40'H
    }
}
}
}
}

```

Paso 17

CUBE-1 envía un mensaje setup H225 a CUBE-2.

(GK-CUBE-1.txt)

009141: *Jul 24 06:49:53.089: H225.0 OUTGOING PDU ::=

```

value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body setup :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      sourceAddress
      {
        h323-ID : {"CUBE-1"}
      }
      sourceInfo
      {
        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
}
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
```

Paso 18

CUBE-2 envía una petición ARQ con el “answerCall” fijó PARA VERDAD 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
}

```

[Paso 19](#)

Gatekeeper-2 envía una respuesta 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
    }
  }
}

```

[Paso 20](#)

CUBE-2 después hace juego el dial peer de entrada 919 y al dial-peer de salida 408 y envía una petición 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
}

```

[Paso 21](#)

CUBE-2 envía un mensaje de procedimiento de la llamada H225 a CUBE-1.

(GK-CUBE-2.txt)

```
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
    }
  }
}

```

[Paso 22](#)

Porque no hay zonas del invia configuradas para la zona CCM-CUBE, Gatekeeper-2 realiza el proceso normal ARQ. Encuentra el prefijo de la tecnología 3# en el 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#

```

[Paso 23](#)

Gatekeeper-2 utiliza los dígitos restantes (4085252000) para encontrar una coincidencia del

prefijo de zona. Determina que la zona CME puede manejar este prefijo 408 e intentos para encontrar un gateway que se registre en la zona CME con un tecnología-prefijo 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:
//xxxxxxxxxxxxxx/xxxxxxxxxxxxxx/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_zonep=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
```

[Paso 24](#)

Gatekeeper-2 selecciona el CME como el gateway de destino y envía su dirección IP (14.1.103.74) en la respuesta 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
        t35Extension 0
        manufacturerCode 18
    }
    data '40'H
}
}
startTime NULL
endTime NULL
terminationCause NULL
}
}
}
}

```

Paso 25

CUBE-2 recibe la respuesta ACF y envía un mensaje setup H225 al CME.

(GK-CUBE-2.txt)

026549: *Sep 24 12:43:19.747: H225.0 OUTGOING PDU ::=

```

value H323_UserInformation ::=
{
  h323-uu-pdu
  {
    h323-message-body setup :
    {
      protocolIdentifier { 0 0 8 2250 0 4 }
      sourceAddress
      {
        h323-ID : {"CUBE-2"}
      }
      sourceInfo
      {
        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
}
activeMC FALSE
conferenceID '006E38C43570518C030003010E32CA1F'H
conferenceGoal create : NULL
callType pointToPoint : NULL
sourceCallSignalAddress ipAddress :
{
    ip '0E017B5F'H
    port 11398
}
callIdentifier
{
    guid '006E38C43570518C030003010E32CA1F'H
}
mediaWaitForConnect FALSE
canOverlapSend FALSE
multipleCalls TRUE
maintainConnection TRUE
}
h245Tunneling TRUE
nonStandardControl
{
    {
        nonStandardIdentifier h221NonStandard :
        {
            t35CountryCode 181
            t35Extension 0
            manufacturerCode 18
        }
        data '80A50004000103001127F800000000000000000000... 'H
    }
}
}
```

```
026550: *Sep 24 12:43:19.775: H225.0 OUTGOING ENCODE BUFFER::= 20A0060008914
A00040140050043005500420045002D003228C0B50000120B436973636F47617465776179003
240023C0504010020602C05010000006E38C43570518C030003010E32CA1F00CD0D800007000
E017B5F2C861100006E38C43570518C030003010E32CA1F010001000180018010A0018021014
0B50000121A80A50004000103001127F80000000000000000000000000000000000000000000
026551: *Sep 24 12:43:19.779:
026552: *Sep 24 12:43:19.779: //24/006E38C40300/H323/cch323_h225_set_new_state:
Changing from H225_IDLE state to H225_SETUP state
```

Paso 26

El portero recibe una petición ARQ con el “answerCall” fijó PARA VERDAD del CME y envía una respuesta ACF.

026557: *Sep 24 12:43:19.811: RAS INCOMING PDU ::=

```
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
            manufacturerCode 18
        }
        data '40'H
    }
}
startTime NULL
endTime NULL
terminationCause NULL
}
}
}
```

Paso 27

CUBE-2 recibe el procedimiento, alertar y los mensajes CONNECT de la llamada H225 del CME, que entonces se devuelven hasta el final al administrador de las Comunicaciones unificadas de Cisco.

(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 '80A1001127F8000000000000000000000000000000000000...'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/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

```

Paso 28

La negociación H.245 ocurre. Se establecen las secuencias audios y video RTP

(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/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/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

```

[Paso 29](#)

4085252000 cuelga para arriba la llamada. CUBE-2 recibe el H225 Versión-completo del 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)

Paso 30

Después de recibir/envío Versión-completo, CCM, CUBE-1, CUBE-2 y el CME envían un pedido de desconexión (DRQ) a sus porteros 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
}

```

[Paso 31](#)

CUBE-2 envía Versión-completo a CUBE-1, que entonces envía un mensaje Versión-completo correspondiente al administrador de las Comunicaciones unificadas de Cisco y a las desconexiones de la llamada.

(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
    }
}

```

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