

穿过CUBE和Cisco网守的H.323视频呼叫流

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简介

本文目标将为H.323在Cisco Unified Border Element (多维数据集)和Cisco网守间的视频呼叫提供配置和故障排除信息。

网络拓扑详细信息：

有两个站点：

- Site-1使用Cisco Unified Communications管理器。
- Site-2使用Cisco Unified Communications管理器Express (CME)。

每个站点有在同一个设备和网守代管的一多维数据集。在Site-1的网守配置作为Site-2的一个远程关守和反过来也是一样地。站点之间呼叫通过在每个站点(直通业务模式)路由查找的多维数据集。Cisco Unified Communications管理器和多维数据集在站点1使用tech-前缀#2。CME和多维数据集在站点2使用tech-前缀#3。

用户使用做音频/视频呼叫的VT Advantage摄像头和IP电话。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco Unified CallManager — 6.1.1.3000-2
- 多维数据集和网守— Cisco IOS软件版本12.4(15)T6
- Cisco CallManager Express — Cisco IOS软件版本12.4(15)T6

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

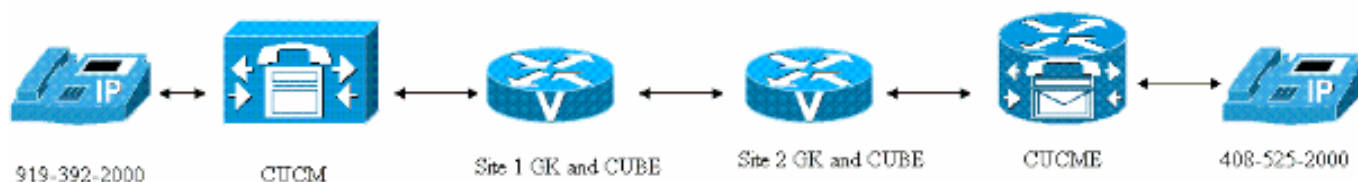
配置

本部分提供有关如何配置本文档所述功能的信息。

注意：有关本文档所用命令的详细信息，请使用[命令查找工具](#)（[仅限注册用户](#)）。

网络图

本文档使用以下网络设置：



配置

本文档使用以下配置：

- 多维数据集和网守配置在Site-1
- 多维数据集和网守配置在Site-2
- CME配置
- Cisco Unified Communications管理器配置

多维数据集和网守配置在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

```

多维数据集和网守配置在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

```

CME配置

```
!--- 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 Unified Communications管理器配置](#)

完成这些步骤：

1. 配置一网守(设备>网守)在Cisco Unified Communications管理器管理页。



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. 配置—H.225 Gatekeeper Controlled中继(设备→中继)在与网守名称、终端类型、技术前缀和区域参数的Cisco Unified Communications Manager管理页面。



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

3. 配置路由模式路由呼叫到4085252000在步骤配置的H.225中继间2。注意前缀位(呼出呼叫)字段设置为3#。

Route Pattern Configuration

 Save
  Delete
  Copy
  Add New

Status

 Status: Ready

Pattern Definition

Route Pattern*

Route Partition

Description

Numbering Plan

Route Filter

MLPP Precedence*

Gateway/Route List* [\(Edit\)](#)

Route Option

 Route this pattern

 Block this pattern

Call Classification*

Allow Device Override
 Provide Outside Dial Tone
 Allow Overlap Sending
 Urgent Priority

 Require Forced Authorization Code

Authorization Level*

Require Client Matter Code

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*	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"/>

4. 配置转换模式为了剥离在呼入呼叫的2#在H225中继间。

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

验证

请使用此部分为了适当地确认您的配置工作。

[命令输出解释程序 \(仅限注册用户 \)](#) (OIT) 支持某些 **show** 命令。使用 OIT 可查看对 **show** 命令输出的分析。

网关

请使用此部分确认您的配置适当地工作在Cisco IOS网守。

这些网守显示命令在启用debug gatekeeper main以后收集了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: 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_protos: 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_protos: 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_protos: 0x00000050
    H323-ID: CME-1
    Voice Capacity Max.= Avail.= Current.= 1
Total number of active registrations = 2
```

• Show gatekeeper gw-type-prefixGatekeeper-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

• **Show gatekeeper callsGatekeeper-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,
```

[多维数据集](#)

请使用此部分为了确认您的配置适当地工作在多维数据集。

• 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
```

• Show call active视频摘要Cube-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
```

• Show voip rtp connectionsCube-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

故障排除

使用本部分可排除配置故障。

debug 命令

配置Cisco IOS网关记录在其操作日志缓冲区的调试和禁用logging console。

注意：使用 debug 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

注意：显示，并且常见问题的调试指令是可在[多业务语音调试查找工具](#)。

这些是用于的命令配置网关为了存储在网关的操作日志缓冲区的调试：

- service timestamps debug datetime msec
- 服务顺序
- no logging console
- logging buffered 5000000 debug
- clear log

多维数据集调试

- debug voip ccapi inout

- debug ras
- debug h225 asn1
- debug h245 asn1
- debug cch323 h225
- debug cch323 h245
- debug voip ipipgw

网守调试

- debug ras
- debug gatekeeper main 10
- debug gatekeeper call 10
- debug gatekeeper zone 10

呼叫流示例

此部分描述该的呼叫流从此配置示例的结果。

1. [IP电话\(919-392-2000\)做一呼叫到IP电话\(408-525-2000\)](#)
2. [Cisco Unified Communications管理器加前缀3#到被呼叫号码并且发送ARQ请求到在Site-1的网守](#)
3. [Gatekeeper-1识别呼叫从CCM区域和检查是入站是否有配置的invia区域](#)
4. [Gatekeeper-1确定CCM-CUBE作为CCM区域的invia区域并且设法查找一个IP-IP网关在CCM-CUBE区域](#)
5. [Gatekeeper-1查找本地IP-IP网关\(CUBE-1\)并且发送网关\(14.50.201.17\)的IP地址在ACF答复](#)
6. [Cisco Unified Communications管理器传送H225设置信息对CUBE-1](#)
7. [CUBE-1发送与“answerCall”集的一ARQ请求给特鲁对Gatekeeper-1](#)
8. [Gatekeeper-1发送对CUBE-1的一ACF答复](#)
9. [CUBE-1然后匹配呼入拨号对端919和呼出拨号对端408并且发送3#4085252000的一ARQ请求对Gatekeeper-1](#)
10. [CUBE-1传送H225呼叫进行信息给Cisco Unified Communications管理器](#)
11. [尽管没有为CCM-CUBE区域配置的invia区域， Gatekeeper-1执行正常ARQ处理。它查找3#在目标号码的tech-前缀](#)
12. [3#配置作为远程区域的CME-CUBE一个hopoff前缀。因此， Gatekeeper-1发送LRQ \(位置请求\)对Gatekeeper-2](#)
13. [Gatekeeper-2接收LRQ并且识别LRQ是从远程区域CCM-CUBE。它证实是否有为远程区域配置的invia区域CCM-CUBE](#)
14. [Gatekeeper-2确定CME-CUBE作为CCM-CUBE区域的invia区域并且设法查找在CME-CUBE的一个IP-IP网关](#)
15. [Gatekeeper-2查找本地IP-IP网关\(CUBE-2\)并且发送网关\(14.1.123.95\)的IP地址在LCF答复](#)
16. [Gatekeeper-1收到LCF答复并且发送一ACF答复用CUBE-2的IP地址对CUBE-1](#)
17. [CUBE-1传送H225设置信息对CUBE-2](#)
18. [CUBE-2发送与“answerCall”集的一ARQ请求给特鲁对Gatekeeper-2](#)
19. [Gatekeeper-2发送对CUBE-2的一ACF答复](#)
20. [CUBE-2然后匹配呼入拨号对端919和呼出拨号对端408并且发送3#4085252000的一ARQ请求对Gatekeeper-2](#)
21. [CUBE-2传送H225呼叫进行信息对CUBE-1](#)
22. [由于没有为CCM-CUBE区域配置的invia区域， Gatekeeper-2执行正常ARQ处理。它查找](#)

3#在目标号码的技术前缀

23. [Gatekeeper-2使用剩余数字\(4085252000\)查找区域前缀匹配。它确定CME区域能处理此408前缀并且设法查找在有tech-前缀的3# CME区域注册的网关](#)
24. [Gatekeeper-2选择CME作为目的地网关并且发送其IP地址\(14.1.103.74\)在ACF答复](#)
25. [CUBE-2收到ACF答复并且传送H225设置信息对CME](#)
26. [网守收到与“answerCall”集的一ARQ请求给从CME的特鲁并且发送ACF答复](#)
27. [CUBE-2收到H225从CME的呼叫进行，警告和连接消息，一直然后通过回到Cisco Unified Communications Manager](#)
28. [H.245协商发生。音频和视频RTP数据流设立](#)
29. [4085252000挂断呼叫。CUBE-2接收H225版本完整从CME](#)
30. [在接收/发送版本完整以后，CCM、CUBE-1、CUBE-2和CME发送断连请求\(DRQ\)到他们的各自网守](#)
31. [CUBE-2发送版本完整对CUBE-1，然后传送对应的版本完整信息对Cisco Unified Communications Manager和呼叫断开](#)

调试输出

此部分为在此部分讨论的呼叫流提供debug输出。

点击完整debug输出的这些超链接：

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

步骤 1

IP电话(919-392-2000)做一呼叫到IP电话(408-525-2000)。

步骤 2

Cisco Unified Communications管理器加前缀3#到被呼叫号码并且发送ARQ请求到在Site-1的网守。

(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
}

```

步骤 3

Gatekeeper-1识别呼叫从CCM区域和检查是入站是否有配置的invia区域。

(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_invianamelen=8

```

步骤 4

Gatekeeper-1确定CCM-CUBE作为CCM区域的invia区域并且设法查找一个IP-IP网关在CCM-CUBE区域。

(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

```

步骤 5

Gatekeeper-1查找本地IP-IP网关(CUBE-1)并且发送网关(14.50.201.17)的IP地址在ACF答复。

(GK-CUBE-1.txt)

```

008895: *Jul 24 06:49:52.604:
    //xxxxxxxxxxxx/xxxxxxxxxxxx/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:
//xxxxxxxxxxxx/xxxxxxxxxxxx/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
  }
}
```

步骤 6

Cisco Unified Communications 管理器传送 H225 设置信息对 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

```

步骤 7

CUBE-1发送与“answerCall”集的一ARQ请求给特鲁对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
}

```

步骤 8

Gatekeeper-1发送对CUBE-1的一ACF答复。

(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
  }
}
}
}
}

```

步骤 9

CUBE-1然后匹配呼入拨号对端919和呼出拨号对端408并且发送3#4085252000的一ARQ请求对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
}
```

[步骤 10](#)

CUBE-1传送H225呼叫进行信息给Cisco Unified Communications管理器。

```
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
    }
  }
}
```



```
}  
}
```

步骤 11

尽管没有为CCM-CUBE区域配置的invia区域， Gatekeeper-1执行正常ARQ处理。它查找3#在目标号码的tech-前缀。

```
(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
```

步骤 12

3#配置作为远程区域的CME-CUBE一个hopoff前缀。因此， Gatekeeper-1发送LRQ (位置请求)对 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
}
```

步骤 13

Gatekeeper-2接收LRQ并且识别LRQ是从远程区域CCM-CUBE。它证实是否有为远程区域配置的invia区域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
```

步骤 14

Gatekeeper-2确定CME-CUBE作为CCM-CUBE区域的invia区域并且设法查找在CME-CUBE的一个IP-IP网关。

(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

```

步骤 15

Gatekeeper-2查找本地IP-IP网关(CUBE-2)并且发送网关(14.1.123.95)的IP地址在LCF答复。

(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
0302C312C792C792C312C39313933393232303030D0A0D0A
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
    }
}
}

```

步骤 16

Gatekeeper-1收到LCF答复并且发送一ACF答复用CUBE-2的IP地址对CUBE-1。

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
        }
      }
      startTime NULL
      endTime NULL
      terminationCause NULL
    }
  }
}
}

```

[步骤 17](#)

CUBE-1传送H225设置信息对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
3001127F8000000000000000000000000000002F0204677464012849414D2C0D0A4745412C747
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

```

步骤 18

CUBE-2发送与“answerCall”集的一ARQ请求给特鲁对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
}

```

[步骤 19](#)

Gatekeeper-2发送对CUBE-2的一ACF答复。

(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
      }
    }
  }
}
```

步骤 20

CUBE-2然后匹配呼入拨号对端919和呼出拨号对端408并且发送3#4085252000的-ARQ请求对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
}

```

步骤 21

CUBE-2传送H225呼叫进行信息对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
    }
}
}
}
}

```

步骤 22

由于没有为CCM-CUBE区域配置的invia区域， Gatekeeper-2执行正常ARQ处理。它查找3#在目标号码的技术前缀。

(GK-CUBE-2.txt)

```

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

```

步骤 23

Gatekeeper-2使用剩余数字(4085252000)查找区域前缀匹配。它确定CME区域能处理此408前缀并且设法查找在有tech-前缀的3# CME区域注册的网关。

(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_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

```

步骤24

Gatekeeper-2选择CME作为目的地网关并且发送其IP地址(14.1.103.74)在ACF答复。

(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
    }
  }
}
}

```

步骤25

CUBE-2收到ACF答复并且传送H225设置信息对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 :

```



```
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: //xxxxxxxxxxxxxx/xxxxxxxxxxxxxx/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
    }
  }
}
}

```

[步骤27](#)

CUBE-2收到H225从CME的呼叫进行，警告和连接消息，一直然后通过回到Cisco Unified Communications Manager。

(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 '80A1001127F80000000000000000000000000000000000000000000000000000...'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

```

步骤28

H.245协商发生。音频和视频RTP数据流设立

(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 '80A1001127F80000000000000000000000000000000000000000000000000000...'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

```

步骤29

4085252000挂断呼叫。CUBE-2接收H225版本完整从CME。

(GK-CUBE-2.txt)

```
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)

```

步骤30

在接收/发送版本完整以后，CCM、CUBE-1、CUBE-2和CME发送断连请求(DRQ)到他们的各自网守。

(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
}
```

[步骤31](#)

CUBE-2发送版本完整对CUBE-1，然后传送对应的版本完整信息对Cisco Unified Communications Manager和呼叫断开。

(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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