# Flux d'appels vidéo H.323 à travers CUBE et Cisco Gatekeeper

## Contenu



## Introduction

L'objectif de ce document est de fournir la configuration et l'information de dépannage pour H.323 des appels vidéos à travers le Logiciel Cisco Unified Border Element (CUBE) et le Cisco Gatekeeper.

**Détails de topologie du réseau :**

Il y a deux sites :

- Site-1 utilise le gestionnaire de Cisco Unified Communications.
- Site-2 utilise le Manager Express de Cisco Unified Communications (CME).

Chaque site a un CUBE et un garde-porte coïmplantés sur le même périphérique. Le garde-porte sur Site-1 est configuré en tant que garde-porte distant dans Site-2 et vice-versa. des appels d'Inter-site sont conduits par le CUBE (traversez le mode) situé dans chaque site. Gestionnaire et CUBE de Cisco Unified Communications au tech-prefix #2 d'utilisation du site 1. CME et le CUBE au site 2 utilisent le tech-prefix #3.

Caméras et téléphone IP de VT Advantage d'utilisation d'utilisateurs pour faire l'audio/appels vidéos.

# Conditions préalables

## Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

## Composants utilisés

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- Cisco Unified CallManager — 6.1.1.3000-2
- CUBE et garde-porte — Version du logiciel Cisco IOS 12.4(15)T6
- Cisco CallManager Express — Version du logiciel Cisco IOS 12.4(15)T6

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

## Conventions

Pour plus d'informations sur les conventions utilisées dans ce document, reportez-vous à Conventions relatives aux conseils techniques Cisco.

# Configurez

Cette section vous fournit des informations pour configurer les fonctionnalités décrites dans ce document.

**Note**: Utilisez l'outil Command Lookup Tool (clients enregistrés seulement) pour trouver plus d'informations sur les commandes utilisées dans ce document.

## Diagramme du réseau

Ce document utilise la configuration réseau suivante :

## Configurations

Ce document utilise les configurations suivantes :

- CUBE et configuration du contrôleur d'accès dans Site-1
- CUBE et configuration du contrôleur d'accès dans Site-2
- Configuration de CME
- Configuration du gestionnaire de Cisco Unified Communications

| CUBE et configuration du contrôleur d'accès dans 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
```

## CUBE et configuration du contrôleur d'accès dans 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
```

**Configuration de 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
```

### Configuration du gestionnaire de Cisco Unified Communications

Procédez comme suit :

1. Configurez un garde-porte (périphérique > garde-porte) à la page de gestion de gestionnaire de Cisco Unified Communications.
2. Configurez un joncteur réseau H.225 contrôlé par garde-porte (joncteur réseau de → de périphérique) à la page de gestion de Cisco Unified Communications Manager avec le préfixe de nom, de terminal type, de technologie de garde-porte et les paramètres de zone.
3. Configurez un modèle d'artère pour conduire des appels à 4085252000 à travers le joncteur réseau H.225 configuré dans l'étape 2. Notez que le champ de **chiffres de préfixe (appels sortants)** est placé à **3#**.
4. Configurez un modèle de traduction afin d'éliminer le 2# aux appels d'arrivée à travers le joncteur réseau H225.

## Vérifiez

Employez cette section afin de confirmer vos travaux de configuration correctement.

L'Outil Interpréteur de sortie (clients enregistrés uniquement) (OIT) prend en charge certaines commandes **show**. Utilisez l'OIT pour afficher une analyse de la sortie de la commande **show** .

### Passerelle

Employez cette section pour confirmer que votre configuration fonctionne correctement au garde-

porte de Cisco IOS.

Ces commandes show de garde-porte ont été collectées après l'activation **mettent au point la canalisation 10 de garde-porte** :

- **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_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
```

- **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,
```

## CUBE

Employez cette section afin de confirmer que votre configuration fonctionne correctement au CUBE.

- ### 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
```

- ### Brief de show call active videoCube-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
```

# Dépannez

Utilisez cette section afin de dépanner votre configuration.

## Commandes de débogage

Configurez la passerelle de Cisco IOS pour se connecter met au point dans son tampon de journalisation et désactive le **logging console**.

**Note**: Référez-vous aux informations importantes sur les commandes de débogage avant d'utiliser les commandes de **débogage**.

**Note**: Les commandes d'exposition et de debug pour des problèmes courants sont disponibles à la Voix interarmées mettent au point l'utilitaire de recherche.

Ce sont les commandes utilisées pour configurer la passerelle afin d'enregistrer met au point dans le tampon de journalisation de la passerelle :

- **les horodateurs de service mettent au point la milliseconde date-heure**
- **entretenez l'ordre**
- **no logging console**
- **le logging buffered 5000000 mettent au point**

- clear log

Debugs de CUBE

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

Debugs de garde-porte

- debug ras
- mettez au point la canalisation 10 de garde-porte
- mettez au point l'appel 10 de garde-porte
- mettez au point la zone 10 de garde-porte

## Exemple d'écoulement d'appel

Cette section décrit l'écoulement d'appel ce des résultats de cet exemple de configuration.

1. Le téléphone IP (919-392-2000) fait un appel au téléphone IP (408-525-2000)
2. Le gestionnaire de Cisco Unified Communications préfixe un 3# au numéro appelé et envoie une demande ARQ au garde-porte dans Site-1
3. Gatekeeper-1 l'identifie que l'appel est d'arrivée CCM de la zone et vérifie s'il y a une zone d'invia configurée
4. Gatekeeper-1 détermine CCM-CUBE comme zone d'invia pour que CCM la zone et les essais trouvent une passerelle IP-IP dans la zone CCM-CUBE
5. Gatekeeper-1 trouve la passerelle des gens du pays IP-IP (CUBE-1) et envoie l'adresse IP de la passerelle (14.50.201.17) dans la réponse ACF
6. Le gestionnaire de Cisco Unified Communications envoie un message de configuration H225 à CUBE-1
7. CUBE-1 envoie une demande ARQ avec le « answerCall » a placé POUR RECTIFIER à Gatekeeper-1
8. Gatekeeper-1 envoie une réponse ACF à CUBE-1
9. CUBE-1 alors apparie l'homologue de numérotation en entrée 919 et l'homologue de numérotation en sortie 408 et envoie une demande ARQ de 3#4085252000 à Gatekeeper-1
10. CUBE-1 envoie le message de démarche de l'appel H225 au gestionnaire de Cisco Unified Communications
11. Car il n'y a aucune zone d'invia configurée pour la zone CCM-CUBE, Gatekeeper-1 exécute le traitement normal ARQ. Il trouve le tech-prefix 3# dans le numéro de destination
12. 3# est configuré comme préfixe de hopoff pour la zone distante CME-CUBE. Par conséquent, Gatekeeper-1 envoie un LRQ (demande d'emplacement) à Gatekeeper-2
13. Gatekeeper-2 reçoit le LRQ et l'identifie que LRQ est de la zone distante CCM-CUBE. Il vérifie s'il y a une zone d'invia configurée pour la zone distante CCM-CUBE
14. Gatekeeper-2 détermine CME-CUBE comme la zone d'invia pour que la zone et les essais CCM-CUBE trouvent une passerelle IP-IP dans CME-CUBE

15. Gatekeeper-2 trouve la passerelle des gens du pays IP-IP (CUBE-2) et envoie l'adresse IP de la passerelle (14.1.123.95) dans la réponse LCF
16. Gatekeeper-1 reçoit la réponse LCF et envoie une réponse ACF avec l'adresse IP de CUBE-2 à CUBE-1
17. CUBE-1 envoie un message de configuration H225 à CUBE-2
18. CUBE-2 envoie une demande ARQ avec le « answerCall » a placé POUR RECTIFIER à Gatekeeper-2
19. Gatekeeper-2 envoie une réponse ACF à CUBE-2
20. CUBE-2 alors apparie l'homologue de numérotation en entrée 919 et l'homologue de numérotation en sortie 408 et envoie une demande ARQ de 3#4085252000 à Gatekeeper-2
21. CUBE-2 envoie un message de démarche de l'appel H225 à CUBE-1
22. Puisqu'il n'y a aucune zone d'invia configurée pour la zone CCM-CUBE, Gatekeeper-2 exécute le traitement normal ARQ. Il trouve le préfixe du tech 3# dans le numéro de destination
23. Gatekeeper-2 emploie les autres chiffres (4085252000) pour trouver une correspondance de zone prefix. Il détermine que la zone de CME peut manipuler ces préfixe 408 et essais pour trouver une passerelle qui est enregistrée dans la zone de CME avec un tech-prefix 3#
24. Gatekeeper-2 sélectionne CME comme passerelle de destination et envoie son adresse IP (14.1.103.74) dans la réponse ACF
25. CUBE-2 reçoit la réponse ACF et envoie un message de configuration H225 à CME
26. Le garde-porte reçoit une demande ARQ avec le « answerCall » a placé POUR RECTIFIER de CME et envoie une réponse ACF
27. CUBE-2 reçoit la démarche de l'appel H225, alertant et connecte les messages de CME, qui sont alors passés complètement de nouveau à Cisco Unified Communications Manager
28. La négociation H.245 a lieu. Des flots audios et vidéos de RTP sont établis
29. 4085252000 arrête l'appel. CUBE-2 reçoit H225 Release-complet de CME
30. Après réception/envoi Release-complet, CCM, CUBE-1, CUBE-2 et CME envoient une demande de désengagement (DRQ) à leurs garde-portes respectifs
31. CUBE-2 envoie Release-complet à CUBE-1, qui envoie alors un message Release-complet correspondant à Cisco Unified Communications Manager et aux débranchements d'appel

## Sorties de débogage

Cette section fournit des sorties de débogage pour l'écoulement d'appel discuté dans cette section.

Cliquez sur ces hyperliens pour la sortie de débogage complète :

- GK-CUBE-1
- GK-CUBE-2
- CME-1

### Étape 1

Le téléphone IP (919-392-2000) fait un appel au téléphone IP (408-525-2000).

### Étape 2

Le gestionnaire de Cisco Unified Communications préfixe un 3# au numéro appelé et envoie une demande ARQ au garde-porte dans 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
    }
```

## Étape 3

Gatekeeper-1 l'identifie que l'appel est d'arrivée CCM de la zone et vérifie s'il y a une zone d'invia configurée.

```
(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
```

## Étape 4

Gatekeeper-1 détermine CCM-CUBE comme zone d'invia pour que CCM la zone et les essais trouvent une passerelle IP-IP dans la zone CCM-CUBE.

(GK-CUBE-1.txt)

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

## Étape 5

Gatekeeper-1 trouve la passerelle des gens du pays IP-IP (CUBE-1) et envoie l'adresse IP de la passerelle (14.50.201.17) dans la réponse ACF.

(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
      }
    }
```

## Étape 6

Le gestionnaire de Cisco Unified Communications envoie un message de configuration H225 à 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
```

## Étape 7

CUBE-1 envoie une demande ARQ avec le « answerCall » a placé POUR RECTIFIER à

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
    }
```

## Étape 8

Gatekeeper-1 envoie une réponse ACF à 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
          }
        }
      }
    }
```

[Étape 9]

CUBE-1 alors apparie l'homologue de numérotation en entrée 919 et l'homologue de numérotation en sortie 408 et envoie une demande ARQ de 3#4085252000 à 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
    }
```

## Étape 10

CUBE-1 envoie le message de démarche de l'appel H225 au gestionnaire de Cisco Unified Communications.

```
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
      }
    }
```

## Étape 11

Car il n'y a aucune zone d'invia configurée pour la zone CCM-CUBE, Gatekeeper-1 exécute le traitement normal ARQ. Il trouve le tech-prefix 3# dans le numéro de destination.

```
(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:
    //xxxxxxxxxxx/xxxxxxxxxxx/GK/gk_rassrv_get_ingress_network:
    ARQ non-std ingress network = 2
```

## Étape 12

3# est configuré comme préfixe de hopoff pour la zone distante CME-CUBE. Par conséquent, Gatekeeper-1 envoie un LRQ (demande d'emplacement) à 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
    6E38C43570518C030003010E32CA1F018116020480C4C6C553334005004300550042004500 2D00
    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
    }
```

## Étape 13

Gatekeeper-2 reçoit le LRQ et l'identifie que LRQ est de la zone distante CCM-CUBE. Il vérifie s'il y a une zone d'invia configurée pour la zone distante 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
```

## Étape 14

Gatekeeper-2 détermine CME-CUBE comme la zone d'invia pour que la zone et les essais CCM-CUBE trouvent une passerelle IP-IP dans CME-CUBE.

```
(GK-CUBE-2.txt)

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

## Étape 15

Gatekeeper-2 trouve la passerelle des gens du pays IP-IP (CUBE-2) et envoie l'adresse IP de la passerelle (14.1.123.95) dans la réponse 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:
    //xxxxxxxxxxx/xxxxxxxxxxx/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
5500420045002D00320E0043004D0045002D00430055004200450100014005004300550042004500
D0032000E017B5F06B80000000000000000000004802B00002749414D2C0D0A4745412C747273332C3
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 '8001400500430055004200450020D00320E004300...'H
      }
      destinationInfo
      {
        dialedDigits : "3#4085252000"
      }
      destinationType
      {
        gateway
        {
        }
        mc FALSE
        undefinedNode FALSE
      }
    }
```

## Étape 16

Gatekeeper-1 reçoit la réponse LCF et envoie une réponse ACF avec l'adresse IP de CUBE-2 à 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
    C553334005004300550042004500 2D00310105806073B858533305801602048 0C4C6C55333400500
    4300550042004500 2D00312B00002749414D2C0D0A4745412C747273332C30302C312C792C792C31
    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
        }
      }
    }
  }
```

## Étape 17

CUBE-1 envoie un message de configuration H225 à 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
    0023C0504010020502C0501000001058060 73B858533300006E38C43570518C030003010E32CA1
    F00CD0D800007000E32C9119E4B1100006E38C43570518C030003010E32CA1F010001000180018
    010A801805C0140B500001255E0011200011C351C339E0100036774640000002849414D2C0D0A4
    745412C747273332C30302C312C792C792C312C393139333932323030300D0A0D0A0A500400010
    3001127F8000000000000000000000000000002F020467746401284941 4D2C0D0A4745412C747
    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
```

## Étape 18

CUBE-2 envoie une demande ARQ avec le « answerCall » a placé POUR RECTIFIER à 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
    }
```

## Étape 19

Gatekeeper-2 envoie une réponse ACF à 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
          }
        }
      }
    }
```

## Étape 20

CUBE-2 alors apparie l'homologue de numérotation en entrée 919 et l'homologue de numérotation en sortie 408 et envoie une demande ARQ de 3#4085252000 à 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
    }
```

## Étape 21

CUBE-2 envoie un message de démarche de l'appel H225 à 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::=
    80A1001127F8000000000000000000000000000000
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 '80A1001127F8000000000000000000000000000...'H
            }
          }
        }
      }
```

## Étape 22

Puisqu'il n'y a aucune zone d'invia configurée pour la zone CCM-CUBE, Gatekeeper-2 exécute le traitement normal ARQ. Il trouve le préfixe du tech 3# dans le numéro de destination.

```
(GK-CUBE-2.txt)

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

## Étape 23

Gatekeeper-2 emploie les autres chiffres (4085252000) pour trouver une correspondance de zone

prefix. Il détermine que la zone de CME peut manipuler ces préfixe 408 et essais pour trouver une passerelle qui est enregistrée dans la zone de CME avec un tech-prefix 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:
    //xxxxxxxxxxx/xxxxxxxxxxx/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
```

## Étape 24

Gatekeeper-2 sélectionne CME comme passerelle de destination et envoie son adresse IP (14.1.103.74) dans la réponse 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::=
    00020480C4C6C553334005004300550042004500 2D00320105806073B8585333
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
        }
      }
    }
  }
```

## Étape 25

CUBE-2 reçoit la réponse ACF et envoie un message de configuration H225 à 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 '80A50004000103001127F800000000000000000...'H
        }
      }
    }
  }
```

```
026550: *Sep 24 12:43:19.775: H225.0 OUTGOING ENCODE BUFFER::= 20A0060008914
    A000401400500430055004200450002D003228C0B50000120B436973636F47617465776179003
    240023C0504010020602C05010000006E38C43570518C030003010E32CA1F00CD0D800007000
    E017B5F2C861100006E38C43570518C030003010E32CA1F0100010001800180010A0018021014
    0B50000121A80A50004000103001127F8000000000000000000000000000000000
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
```

## Étape 26

Le garde-porte reçoit une demande ARQ avec le « answerCall » a placé POUR RECTIFIER de CME et envoie une réponse ACF.

```
(GK-CUBE-2.txt)
```

```
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: //xxxxxxxxxxx/xxxxxxxxxxx/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
        }
      }
    }
  }
```

## Étape 27

CUBE-2 reçoit la démarche de l'appel H225, alertant et connecte les messages de CME, qui sont alors passés complètement de nouveau à 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 '80A1001127F8000000000000000000000000000...'H
          }
        }
      }
    }



026578: *Sep 24 12:43:19.919: H225 NONSTD INCOMING ENCODE BUFFER::=
    80A1001127F8000000000000000000000000000000
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/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, Responsed=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/xxxxxxxxxxxx/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(Responsed=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
```

## Étape 28

La négociation H.245 a lieu. Des flots audios et vidéos de RTP sont établis

```
(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 '80A1001127F8000000000000000000000000000000...'H
          }
        }
      }
    }



026578: *Sep 24 12:43:19.919: H225 NONSTD INCOMING ENCODE BUFFER::=
    80A1001127F8000000000000000000000000000000
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/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, Responsed=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/xxxxxxxxxxxx/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(Responsed=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
```

## Étape 29

4085252000 arrête l'appel. CUBE-2 reçoit H225 Release-complet de 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/xxxxxxxxxxxx/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(Responsed=TRUE, Cause Value=16, Retry Count=0)
```

## Étape 30

Après réception/envoi Release-complet, CCM, CUBE-1, CUBE-2 et CME envoient une demande de désengagement (DRQ) à leurs garde-portes respectifs.

```
(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
  }
```

### Étape 31

CUBE-2 envoie Release-complet à CUBE-1, qui envoie alors un message Release-complet correspondant à Cisco Unified Communications Manager et aux débranchements d'appel.

```
(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
    }
  }
```

## Informations connexes

- Assistance technique concernant la technologie vocale
- Assistance concernant les produits vocaux et de communications unifiées
- Dépannage des problèmes de téléphonie IP Cisco
- Support et documentation techniques - Cisco Systems