Flux d'appels vidéo de la passerelle H.320 au contrôleur d'accès H.323

Contenu

Introduction

Ce document décrit le flux d'appels d'une passerelle H.320 de base vers un appel vidéo du contrôleur d'accès H.323. La norme H.320 est une recommandation de l'UIT-T pour les appels multimédias de données, voix et vidéo sur les réseaux RNIS.

H.320 se compose des protocoles suivants :

- H.221 : définit la structure de trame pour les services de télévision audiovisuelle sur au moins 1 canal B RNIS.
- H.230 : définit les signaux de contrôle et d'information utilisés dans un système audiovisuel.
- H.242 : définit les procédures de signalisation, telles que l'initialisation du mode, l'échange de fonctionnalités et la commutation de mode nécessaires pour établir un appel multimédia.

Chaque appel vidéo H.320 comprend un appel principal et zéro ou plusieurs appels secondaires. Par exemple, un appel vidéo de 128 000 comprend 1 appel principal et 1 appel secondaire.

Conditions préalables

Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

Components Used

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

- Passerelle H.320 : Cisco 3725 avec NM-HDV2 (5510 DSP)
- Contrôleur d'accès H.323 : Cisco 3660
- Terminal vidéo H.323 : Polycom V500
- Bande passante = 384 K

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Reportez-vous aux Conventions des conseils techniques de Cisco pour plus d'informations sur les conventions du document.
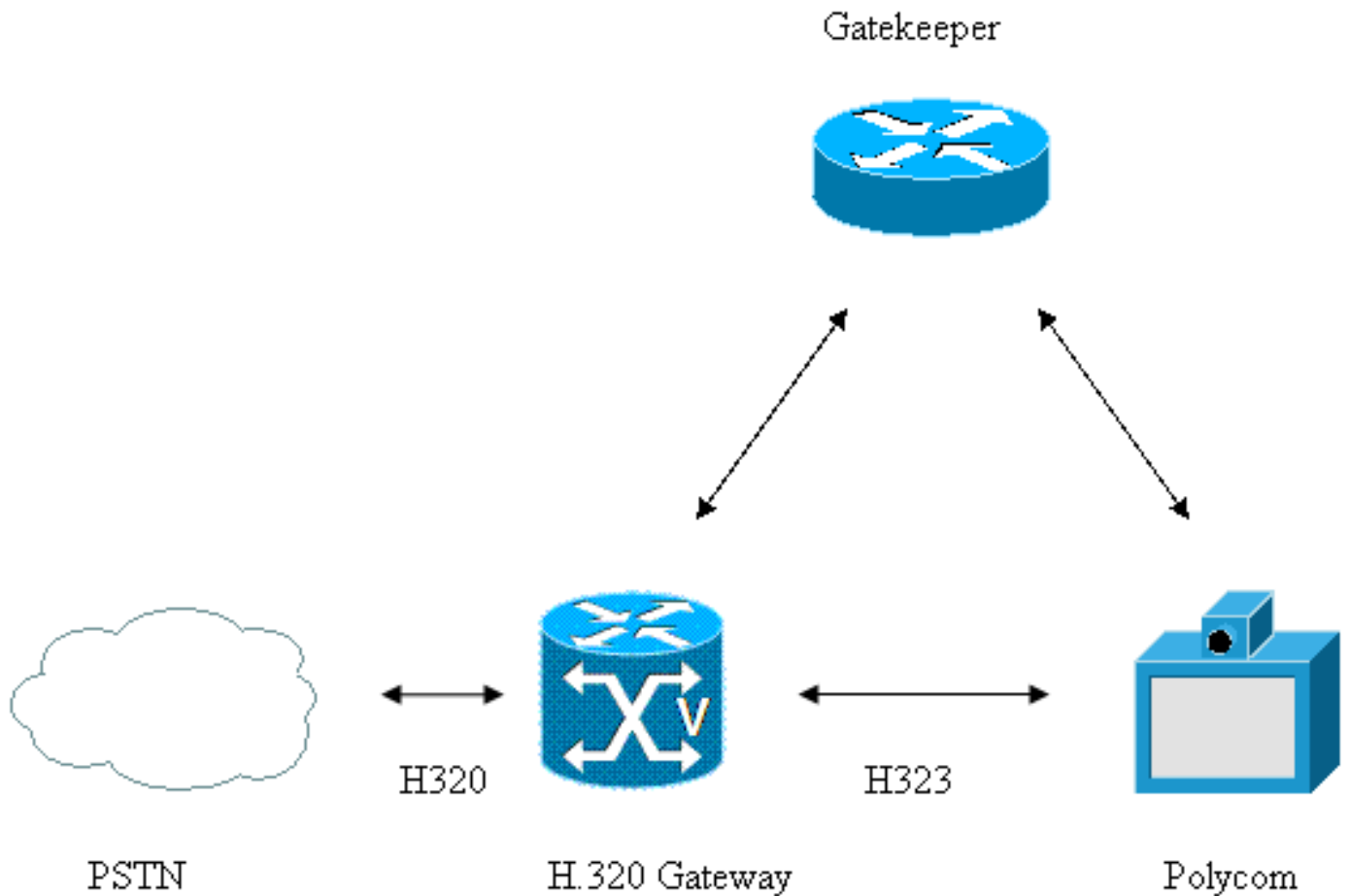
Configuration

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

Remarque : utilisez l'outil de recherche de commandes (clients enregistrés uniquement) afin d'obtenir plus d'informations sur les commandes utilisées dans cette section.

Diagramme du réseau

Ce document utilise la configuration réseau suivante :

Plan de numérotation

Ce document utilise ce plan de numérotation :

- Point de terminaison vidéo dans RTPC : 919-392-6000H.320 Numéro principal appelé : 919-392-6000H.320 Numéros secondaires appelés : 919-392-6001 à 919-392-6005
- Polycom : 919-991-5600H.320 Numéro principal appelé : 919-991-5600H.320 Numéros secondaires appelés : 919-991-5601 à 919-991-5605

Configuration

Ce document utilise la configuration suivante :

Nom de configuration de la passerelle DevicH.320 1

```
voice class h323 1
!--- Slow start is required for Video calls call start
slow voice class called number inbound 1 index 1
9199915601 index 2 9199915602 index 3 9199915603 index 4
9199915604 index 5 9199915605 voice class called number
outbound 1 index 1 9193926001 index 2 9193926002 index 3
9193926003 index 4 9193926004 index 5 9193926005
controller T1 2/0 framing esf linecode b8zs pri-group
timeslots 1-24 interface Serial2/1:23 no ip address
encapsulation hdlc isdn switch-type primary-ni !---
Specifies gateway to accept data, voice and video !---
calls on the same ISDN interface isdn integrate calltype
all no cdp enable dial-peer voice 9190 pots description
```

```
"Inbound H320 Dial-peer" !--- Specifies that this is a
H.320 dial-peer information-type video !--- Specifies
the list of called-numbers used to associate !---
secondary calls with primary call of an inbound video
call voice-class called-number inbound 1 !--- Specifies
the list of called-numbers used for !--- making
secondary calls of an outbound video call voice-class
called-number outbound 1 incoming called-number
919991.... !--- Maximum bandwidth allowed for a video
call !--- across this dial-peer bandwidth maximum 384
direct-inward-dial port 2/1:23 forward-digits all dial-
peer voice 9910 voip description "Dial-peer to Polycom"
destination-pattern 919991.... voice-class h323 1 !---
Specifies video codec to be used video codec h263+ !---
Specifies the RTP Payload Type to be used !--- for the
Video codec rtp payload-type cisco-codec-video-h263+ 110
session target ras incoming called-number 919392....
codec g711ulaw no vad
```

Consommation de bande passante

L'appel vidéo décrit dans ce document utilise une bande passante de 384 Ko.

Consommation de bande passante de l'appel vidéo :

```
= 384K
= 6 * 64K
= 6 B-Channels
= 1 H.320 Primary call and 5 Secondary calls
```

Exemple de flux d'appels

Cette section décrit le flux d'appels qui résulte de cet exemple de configuration.

1. Un appel RNIS du RTPC arrive à la passerelle H.320 avec le 919-991-5600, car le numéro appelé, la capacité de support (limite de support) est défini sur *Numérique illimité* sur canal B=1.
2. La passerelle H.320 effectue une recherche entrante d'homologue de numérotation. Puisque la limite de support est définie sur Non limité numérique, il recherche d'abord le terminal de numérotation dial-peer H.320 POTS (terminaux de numérotation dial-peer configurés avec le type d'information défini sur *vidéo*) et correspond au terminal de numérotation dial-peer 9190. Le premier appel est appelé appel principal.
3. La passerelle H.320 effectue une recherche de terminal de numérotation dial-peer sortant et achemine l'appel sur le terminal de numérotation dial-peer 9910.
4. La passerelle H.320 envoie une demande d'admission (ARQ) au contrôleur d'accès et reçoit un message de confirmation d'admission (ACF).
5. La passerelle H.320 envoie un message H.225 SETUP à Polycom.
6. La passerelle H.320 reçoit un message H.225 CONNECT de Polycom et l'appel vidéo est connecté sur le segment IP.
7. La passerelle H.320 envoie un message RNIS CONNECT au RTPC et l'appel principal est connecté
8. La passerelle H.320 envoie les fonctionnalités initiales H.221 à travers la branche POTS.
9. La synchronisation de trames H.221 est établie sur le canal B = 1 (également appelé canal

initial ou appel principal).

10. Une fois la synchronisation de trame établie, Polycom lance 5 appels secondaires l'un après l'autre. La synchronisation de trames est établie sur les canaux B 2 à 6 (également appelés canaux supplémentaires ou appels secondaires).
11. La passerelle H.320 associe les appels secondaires entrants de la plage 919-991-5601 à 919-991-5605 à l'appel principal (étape 2) avec la commande **voice-class call-number inbound 1**, définie comme indiqué dans la configuration.
12. La passerelle H.320 et Polycom échangent des fonctionnalités audio et vidéo et des canaux logiques ouverts (OLC) pour les flux audio et vidéo sur les segments IP et POTS.

Planification de capacité

Avant que vous placiez le trafic vidéo sur un réseau, vérifiez qu'il existe une bande passante adéquate pour toutes les applications nécessaires. Tout d'abord, calculez les besoins en bande passante minimale pour chaque application principale (par exemple, voix, vidéo et données). La somme représente le besoin minimal en bande passante pour toute liaison spécifique. Cette quantité ne doit pas consommer plus de 75 pour cent de la bande passante totale disponible sur cette liaison. Cette règle de 75 pour cent suppose qu'une bande passante est nécessaire pour la surcharge de trafic. Les exemples de surcharge de trafic incluent des mises à jour du protocole de routage et Keepalives de couche 2, aussi bien que des applications supplémentaires, telles que la messagerie et le trafic HTTP. Faites en sorte que le trafic voix et vidéo n'occupe pas plus de 33 pour cent de la capacité de liaison

Vidéo H.323

Selon la norme H.323, les fonctions vidéo dans les terminaux H.323 sont facultatives. Cependant, quand vous mettez en application les terminaux H.323, les terminaux doivent prendre en charge le codec H.261, avec prise en charge facultative de la norme H.263.

- H.261 : codec vidéo pour services audiovisuels à des multiples de 64 kbits/s. Les périphériques compatibles H.261 encodent entièrement les trames initiales. Les périphériques codent alors seulement les différences entre les trames initiales et ultérieures pour les transmissions de paquets minimales. La compensation facultative de mouvement améliore la qualité d'image.
- H.263 : codec vidéo pour le service de téléphonie classique (POTS). La norme H.263 est une mise à jour à compatibilité descendante de la norme H.261. H.263 améliore de manière significative la qualité d'image avec une technique d'évaluation de mouvement au demi-pixel, qui est un impératif.

Vérification

Référez-vous à cette section pour vous assurer du bon fonctionnement de votre configuration.

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 .**

- **show voice call summary**
```
PORT CODEC VAD VTSP STATE VPM STATE
============= ========= === ==============
2/1:23.1 h320p n S_CONNECT S_TSP_CONNECT
```

```
2/1:23.2 h320s - S_CONNECT S_TSP_CONNECT
2/1:23.3 h320s - S_CONNECT S_TSP_CONNECT
2/1:23.4 h320s - S_CONNECT S_TSP_CONNECT
2/1:23.5 h320s - S_CONNECT S_TSP_CONNECT
2/1:23.6 h320s - S_CONNECT S_TSP_CONNEC

h320p --> H.320 Primary Call; h320s --> H.320 Secondary Call
```

- **show call active video brief**Dans cette sortie, les compteurs Rx/Tx d'un appel vidéo sont signalés uniquement pour l'appel principal et ne sont pas signalés pour les appels secondaires.

```
tx:H263+ 2056/1616633 à Refers to number of  H.221 bytes transmitted by
     the H.320 Gateway across the POTS leg

rx:H263+ 2175/1231395 à Refers to the number of H.221 bytes received by
     the H.320 Gateway across the POTS Leg

Rx/Tx includes audio, video and signaling information carried across
     H.221
     frames.

Telephony call-legs: 6
SIP call-legs: 0
H323 call-legs: 1
Call agent controlled call-legs: 0
SCCP call-legs: 0
Multicast call-legs: 0
Media call-legs: 0
Total call-legs: 7
11F6 : 271 87874530ms.1 +130 pid:9190 Answer 9193926000 active
dur 00:01:14 tx:3585/602280 rx:6686/534880
Tele 2/1:23 (271) [2/1.1] tx:0/0/0ms g711ulaw noise:0 acom:
     0 i/0:0/0 dBm
video: h320:Primary tx:H263+ 2056/1616633 rx:H263+ 2175/1231395
11F6 : 272 87874540ms.1 +110 pid:9910 Originate 9199915600 active
dur 00:01:14 tx:8777/2192461 rx:5789/1830054
IP 14.50.5.52:49192 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

11F7 : 273 87874820ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (273) [2/1.2] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11F8 : 274 87875140ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (274) [2/1.3] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11F9 : 275 87875460ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (275) [2/1.4] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11FA : 276 87875780ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:14 tx:0/0 rx:0/0
Tele 2/1:23 (276) [2/1.5] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11FB : 277 87876100ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (277) [2/1.6] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
Telephony call-legs: 6
SIP call-legs: 0
```

```
H323 call-legs: 1
Call agent controlled call-legs: 0
SCCP call-legs: 0
Multicast call-legs: 0
Media call-legs: 0
Total call-legs: 7
```

- **show call active videoJEU POTS - Appel principal**

```
GENERIC:
SetupTime=87874530 ms
Index=1
PeerAddress=9193926000
PeerSubAddress=
PeerId=9190
PeerIfIndex=120
LogicalIfIndex=61
ConnectTime=87874660 ms
CallDuration=00:01:39 sec
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=video
TransmitPackets=4853
TransmitBytes=815304
ReceivePackets=9223
ReceiveBytes=737840
TELE:
ConnectionId=[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
IncomingConnectionId=[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
CallID=271
TxDuration=0 ms
VoiceTxDuration=0 ms
FaxTxDuration=0 ms
CoderTypeRate=g711ulaw
NoiseLevel=0
ACOMLevel=0
OutSignalLevel=0
InSignalLevel=0
InfoActivity=0
ERLLevel=0
SessionTarget=
ImgPages=0
CallerName=
CallerIDBlocked=False
LongDurationCallDetected=no
LongDurCallTimeStamp=
LongDurCallDuration=
OriginalCallingNumber=9193926000
OriginalCallingOctet=0x21
OriginalCalledNumber=9199915600
OriginalCalledOctet=0xA1
OriginalRedirectCalledNumber=
OriginalRedirectCalledOctet=0xFF
TranslatedCallingNumber=9193926000
TranslatedCallingOctet=0x21
TranslatedCalledNumber=9199915600
TranslatedCalledOctet=0xA1
TranslatedRedirectCalledNumber=
TranslatedRedirectCalledOctet=0xFF
GwReceivedCalledNumber=9199915600
GwReceivedCalledOctet3=0xA1
GwReceivedCallingNumber=9193926000
GwReceivedCallingOctet3=0x21
GwReceivedCallingOctet3a=0x82
```

```
DSPIdentifier=2/3:1
VIDEO:
H320CallType=Primary
VideoTransmitCodec=H263+
VideoReceiveCodec=H263+
VideoUsedBandwidth=3840
H221 STATS (AUDIO):
TxPackets=9123
TxDuration=91230 ms
RxPackets=4561
RxDuration=91130 ms
BadHeaders=0
PacketsLate=0
PacketsEarly=1
ReceiveDelay=35 ms
ConcealmentDuration=0 ms
BufferOverflowDiscards=80
H221 STATS (VIDEO):
TxPackets=2958
TxBytes=2547987
PSC=2686 --> Number of Picture Start Codes detected
GBSC=2686 --> Number of Group of Block Start Codes detected
TxVideoFormat=7
RxPackets=3037
RxBytes=1999240
VideoBytesConsumed=1986099
FillBytesConsumed=1658651
PSCPacketDrops=0 --> Number of packets dropped at beginning of
      stream due to missing Picture Start Code
LatePacket=0
OutOfSequence=0
BadHeader=0
BadSSRC=0
BadPayloadType=0
BufferOverflow=0
ControlHeaderOverflow=0
FilteredDelay=450 ms --> Average delay of received video packets
MinimumDelay=3 ms
MaximumDelay=619 ms
RxVideoFormat=7
```

JEU POTS - Appel secondaire

```
GENERIC:
SetupTime=87874820 ms
Index=1
PeerAddress=9193926000
PeerSubAddress=
PeerId=9190
PeerIfIndex=120
LogicalIfIndex=62
ConnectTime=87874820 ms
CallDuration=00:01:44 sec
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=video
TransmitPackets=0
TransmitBytes=0
ReceivePackets=0
ReceiveBytes=0
TELE:
ConnectionId=[0x38016FD6 0x532111DB 0x801C000D 0x28D3D7C0]
IncomingConnectionId=[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
CallID=273
```

```
TxDuration=0 ms
VoiceTxDuration=0 ms
FaxTxDuration=0 ms
CoderTypeRate=None
NoiseLevel=0
ACOMLevel=0
OutSignalLevel=0
InSignalLevel=0
InfoActivity=0
ERLLevel=0
SessionTarget=
ImgPages=0
CallerName=
CallerIDBlocked=False
LongDurationCallDetected=no
LongDurCallTimeStamp=
LongDurCallDuration=
OriginalCallingNumber=9193926000
OriginalCallingOctet=0x21
OriginalCalledNumber=9199915601
OriginalCalledOctet=0xA1
OriginalRedirectCalledNumber=
OriginalRedirectCalledOctet=0xFF
TranslatedCallingNumber=9193926000
TranslatedCallingOctet=0x21
TranslatedCalledNumber=9199915601
TranslatedCalledOctet=0xA1
TranslatedRedirectCalledNumber=
TranslatedRedirectCalledOctet=0xFF
GwReceivedCalledNumber=9199915601
GwReceivedCalledOctet3=0xA1
GwReceivedCallingNumber=9193926000
GwReceivedCallingOctet3=0x21
GwReceivedCallingOctet3a=0x82
VIDEO:
H320CallType=Secondary
```

LEG IP

```
GENERIC:
SetupTime=87874540 ms
Index=1
PeerAddress=9199915600
PeerSubAddress=
PeerId=9910
PeerIfIndex=121
LogicalIfIndex=0
ConnectTime=87874650 ms
CallDuration=00:01:41 sec
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=speech
TransmitPackets=12528
TransmitBytes=3429599
ReceivePackets=8123
ReceiveBytes=2914089
VOIP:
ConnectionId[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
IncomingConnectionId[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
CallID=272
RemoteIPAddress=14.50.5.52
RemoteSignallingIPAddress=14.50.5.52
RemoteSignallingPort=1720
RemoteMediaIPAddress=14.50.5.52
```

```
RoundTripDelay=0 ms
tx_DtmfRelay=inband-voice
FastConnect=FALSE

AnnexE=FALSE

Separate H245 Connection=TRUE

H245 Tunneling=FALSE

SessionProtocol=cisco
ProtocolCallId=
SessionTarget=ras
OnTimeRvPlayout=0
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPlayoutDelay=0 ms
LoWaterPlayoutDelay=0 ms
TxPakNumber=0
TxSignalPak=0
TxComfortNoisePak=0
TxDuration=0
TxVoiceDuration=0
RxPakNumber=0
RxSignalPak=0
RxComfortNoisePak=0
RxDuration=0
RxVoiceDuration=0
RxOutOfSeq=0
RxLatePak=0
RxEarlyPak=0
RxBadProtocol=0
PlayDelayCurrent=0
PlayDelayMin=0
PlayDelayMax=0
PlayDelayClockOffset=0
PlayDelayJitter=0 ms
PlayErrPredictive=0
PlayErrInterpolative=0
PlayErrSilence=0
PlayErrBufferOverFlow=0
PlayErrRetroactive=0
PlayErrTalkspurt=0
OutSignalLevel=0
InSignalLevel=0
LevelTxPowerMean=0
LevelRxPowerMean=0
LevelBgNoise=0
ERLLevel=0
ACOMLevel=0
ErrRxDrop=0
ErrTxDrop=0
ErrTxControl=0
ErrRxControl=0
Outgoing Area=Video-GK
VideoTransmitCodec=H263+
VideoTransmitPackets=0
VideoTransmitBytes=0
VideoReceiveCodec=H263+
VideoReceivePackets=0
VideoReceiveBytes=0
VideoCap_Codec=H263+
```

```
        VideoCap_Format=4CIF
        VideoLostPackets=0
        VideoEarlyPackets=0
        VideoLatePackets=0
        VideoUsedBandwidth=7300
        VideoNumberOfChannels=2

        Incoming Channel Number = 3
        Type = VIDEO
        RX Bandwidth = 3010
        RemotePort = 49192
        LocalPort = 18982
        SelectedQos = best-effort
        Incoming Channel Number = 2
        Type = AUDIO
        RX Bandwidth = 640
        RemotePort = 49190
        LocalPort = 16640
        SelectedQos = best-effort

        ReceiveDelay=0 ms
        LostPackets=0
        EarlyPackets=0
        LatePackets=0
        SRTP = off
        TextRelay = off
        VAD = disabled
        CoderTypeRate=g711ulaw
        CodecBytes=160
        Media Setting=flow-through
        AlertTimepoint=87874600 ms
```
- **show voip rtp connections**
```
        VoIP RTP active connections :
        No. CallId dstCallId LocalRTP RmtRTP LocalIP RemoteIP
        1 272 271 16640 49190 14.1.16.220 14.50.5.52
        2 278 279 18982 49192 14.1.16.220 14.50.5.52
        Found 2 active RTP connections
```

Dépannage

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Commandes de débogage

- debug h225 asn1
- debug h225 q931
- debug h245 asn1
- debug isdn q931
- debug voip h221 inout
- debug voip ccapi inout

Remarque : Consulter les renseignements importants sur les commandes de débogage avant d'utiliser les commandes de **débogage**.

Sorties de débogage

Cette section fournit des sorties de débogage pour cet exemple de flux d'appels :

1. Configuration entrante avec numéro appelé = 9199915600 et Bearer-Cap défini sur Numérique illimité
2. L'homologue de numérotation entrant 9190 est mis en correspondance
3. L'homologue de numérotation sortant 9910 est mis en correspondance
4. La passerelle H.320 envoie une requête ARQ au contrôleur d'accès
5. La passerelle H.320 reçoit la réponse ACF du contrôleur d'accès
6. La passerelle H.320 envoie un message H.225 SETUP à Polycom
7. L'appel est connecté sur la balise IP
8. La passerelle H.320 envoie CONNECT côté RNIS et l'appel est connecté
9. La passerelle H.320 envoie le jeu de fonctionnalités initial
10. La synchronisation de trames est établie sur B-Channel 1
11. La passerelle H.320 reçoit le premier appel secondaire
12. Le premier appel secondaire est connecté
13. La synchronisation de trames est établie sur B-Channel 2
14. La passerelle H.320 reçoit le deuxième appel secondaire
15. Le deuxième appel secondaire est connecté
16. La passerelle H.320 reçoit la commande BAS du point de terminaison vidéo dans le RTPC
17. La synchronisation de trames est établie sur B-Channel 3
18. La passerelle H.320 reçoit le troisième appel secondaire
19. Le troisième appel secondaire est connecté
20. La synchronisation de trames est établie sur B-Channel 4
21. La passerelle H.320 reçoit le quatrième appel secondaire
22. Le quatrième appel secondaire est connecté
23. La synchronisation de trames est établie sur B-Channel 4
24. La passerelle H.320 reçoit le cinquième appel secondaire
25. Le cinquième appel secondaire est connecté
26. La synchronisation de trames est établie sur le canal B 6
27. La passerelle H.320 reçoit des fonctionnalités définies à partir du point de terminaison vidéo dans le RTPC
28. La passerelle H.320 envoie la fonctionnalité définie sur le point d'extrémité vidéo dans le RTPC
29. La passerelle H.320 annonce des fonctionnalités audio (G711ulaw) et vidéo (H.263) via TCS à Polycom via la passerelle IP
30. La passerelle H.320 envoie une requête MSD à Polycom
31. La passerelle H.320 reçoit les fonctionnalités audio (G.722, G.728, G.711) et vidéo (H.263) de Polycom
32. La passerelle H.320 envoie TCS ACK à Polycom
33. La passerelle H.320 reçoit une requête MSD de Polycom
34. La passerelle H.320 envoie MSD ACK à Polycom
35. La passerelle H.320 reçoit un ACK TCS de Polycom
36. La passerelle H.320 reçoit l'ACK MSD de Polycom
37. La passerelle H.320 reçoit un OLC audio (G.711) de Polycom
38. La passerelle H.320 définit le mode audio sortant sur la branche POTS
39. La passerelle H.320 envoie un ACK audio OLC à Polycom
40. La passerelle H.320 reçoit un OLC vidéo (H.263) de Polycom
41. Le type de charge utile RTP pour le flux vidéo H.263 de Polycom à la passerelle H.320 est défini sur 96
42. La passerelle H.320 définit le mode vidéo sortant sur la branche POTS

43. [La passerelle H.320 envoie un ACK OLC vidéo à Polycom](#)
44. [La passerelle H.320 envoie un signal audio indiquant le contrôle actif et le signal d'information au point d'extrémité vidéo distant dans le RTPC](#)
45. [Le point de terminaison vidéo du RTPC définit le débit de transfert et le mode audio](#)
46. [La passerelle H.320 envoie un OLC audio (G.711) à Polycom](#)
47. [La passerelle H.320 reçoit un ACK OLC audio de Polycom](#)
48. [Le point de terminaison vidéo du RTPC définit le mode vidéo](#)
49. [La passerelle H.320 reçoit un signal audio indiquant le contrôle actif et le signal d'information du point d'extrémité vidéo distant dans le RTPC](#)
50. [La passerelle H.320 envoie un OLC vidéo (H.263) à Polycom](#)
51. [Le type de charge utile RTP pour le flux vidéo H.263 de la passerelle H.320 vers Polycom est défini sur 110](#)
52. [La passerelle H.320 reçoit un ACK OLC vidéo de Polycom](#)
53. [La passerelle H.320 reçoit une demande d'image VFU (Video Fast Update) de Polycom](#)
54. [La passerelle H.320 envoie un signal de contrôle d'image et d'information de mise à jour rapide vidéo au point d'extrémité vidéo du RTPC](#)
55. [La passerelle H.320 reçoit la commande de contrôle de flux de Polycom](#)
56. [La passerelle H.320 envoie la commande de contrôle de flux au point de terminaison vidéo dans le RTPC](#)
57. [La passerelle H.320 envoie la commande de contrôle de flux à Polycom](#)
58. [La passerelle H.320 reçoit la commande de contrôle de flux du point d'extrémité vidéo du RTPC](#)
59. [La passerelle H.320 envoie la commande de contrôle de flux à Polycom](#)
60. [Le point d'extrémité vidéo du RTPC déconnecte l'appel vidéo](#)
61. [La passerelle H.320 efface l'appel sur la passerelle IP](#)
62. [La passerelle H.320 envoie DRQ au contrôleur d'accès](#)

[Configuration entrante avec numéro appelé = 9199915600 et Bearer-Cap défini sur Numérique illimité](#)

Il s'agit de l'appel principal H.320.

```
001297: Oct 4 21:02:10.563: RCF (seq# 2048) rcvd
001298: Oct 4 21:02:16.748: ISDN Se2/1:23 Q931:
    RX <- SETUP pd = 8 callref = 0x009F
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98381
Exclusive, Channel 1
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915600'
Plan:ISDN, Type:National
001299: Oct 4 21:02:16.756:
    //-1/736483928021/CCAPI/cc_api_display_ie_subfields:
cc_api_call_setup_ind_common:
cisco-username=
----- ccCallInfo IE subfields -----
```

```
cisco-ani=9193926000
cisco-anitype=2
cisco-aniplan=1
cisco-anipi=0
cisco-anisi=2
dest=9199915600
cisco-desttype=2
cisco-destplan=1
cisco-rdie=FFFFFFFF
cisco-rdn=
cisco-rdntype=-1
cisco-rdnplan=-1
cisco-rdnpi=-1
cisco-rdnsi=-1
cisco-redirectreason=-1 fwd_final_type =0
final_redirectNumber =
hunt_group_timeout =0
```

L'homologue de numérotation entrant 9190 est mis en correspondance

```
001300: Oct 4 21:02:16.756: //-1/736483928021/CCAPI/
     cc_api_call_setup_ind_common:
Interface=0x65A8CAD4, Call Info(
Calling Number=9193926000,(Calling Name=)(TON=National,
     NPI=ISDN, Screening=User, Failed, Presentation=Allowed),
Called Number=9199915600(TON=National, NPI=ISDN),
Calling Translated=FALSE, Subscriber Type Str=RegularLine,
     FinalDestinationFlag=TRUE,
Incoming Dial-peer=9190, Progress Indication=NULL(0), Calling IE Present=TRUE,
Source Trkgrp Route Label=, Target Trkgrp Route Label=,
     CLID Transparent=FALSE), Call Id=-1
001301: Oct 4 21:02:16.756: //-1/736483928021/CCAPI/ccCheckClipClir:
In: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
     Presentation=Allowed)
001302: Oct 4 21:02:16.756: //-1/736483928021/CCAPI/ccCheckClipClir:
Out: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
     Presentation=Allowed)
001303: Oct 4 21:02:16.756: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001304: Oct 4 21:02:16.756: :cc_get_feature_vsa malloc success
001305: Oct 4 21:02:16.756: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001306: Oct 4 21:02:16.756: cc_get_feature_vsa count is 1
001307: Oct 4 21:02:16.756: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001308: Oct 4 21:02:16.756: :FEATURE_VSA attributes are: feature_name:0,
     fearture_time:1710265896,feature_id:78
001309: Oct 4 21:02:16.756:
     //280/736483928021/CCAPI/cc_api_call_setup_ind_common:
Set Up Event Sent;
Call Info(Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User,
     Failed, Presentation=Allowed),
Called Number=9199915600(TON=National, NPI=ISDN))
001310: Oct 4 21:02:16.760: //280/736483928021/CCAPI/cc_process_call_setup_ind:
Event=0x6587C660
001311: Oct 4 21:02:16.760: //280/736483928021/CCAPI/ccCallSetContext:
Context=0x64C5F570
001312: Oct 4 21:02:16.760: //280/736483928021/CCAPI/cc_process_call_setup_ind:
>>>>CCAPI handed cid 280 with tag 9190 to app "_ManagedAppProcess_Default"
001313: Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallProceeding:
Progress Indication=NULL(0)
001314: Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallSetupRequest:
```

```
Destination=, Calling IE Present=TRUE, Mode=0,
Outgoing Dial-peer=9910, Params=0x64C5DA10, Progress Indication=NULL(0)
001315: Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCheckClipClir:
In: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
    Presentation=Allowed)
001316: Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCheckClipClir:
Out: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
    Presentation=Allowed)
001317: Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallSetupRequest:
Destination Pattern=919991...., Called Number=9199915600, Digit Strip=FALSE
001318: Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallSetupRequest:
Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
    Presentation=Allowed),
Called Number=9199915600(TON=National, NPI=ISDN),
Redirect Number=, Display Info=
Account Number=, Final Destination Flag=TRUE,
Guid=73648392-5322-11DB-8021-000D28D3D7C0, Outgoing Dial-peer=9910
001319: Oct 4 21:02:16.764:
    //280/736483928021/CCAPI/cc_api_display_ie_subfields:
ccCallSetupRequest:
cisco-username=
----- ccCallInfo IE subfields -----
cisco-ani=9193926000
cisco-anitype=2
cisco-aniplan=1
cisco-anipi=0
cisco-anisi=2
dest=9199915600
cisco-desttype=2
cisco-destplan=1
cisco-rdie=FFFFFFFF
cisco-rdn=
cisco-rdntype=-1
cisco-rdnplan=-1
cisco-rdnpi=-1
cisco-rdnsi=-1
cisco-redirectreason=-1 fwd_final_type =0
final_redirectNumber =
hunt_group_timeout =0
```

L'homologue de numérotation sortant 9910 est mis en correspondance

```
001320: Oct 4 21:02:16.768: //280/736483928021/CCAPI/
    ccIFCallSetupRequestPrivate:
Interface=0x65D7A87C, Interface Type=1, Destination=, Mode=0x0,
Call Params(Calling Number=9193926000,(Calling Name=)(TON=National, NPI=ISDN,
    Screening=User, Failed, Presentation=Allowed),
Called Number=9199915600(TON=National, NPI=ISDN), Calling Translated=FALSE,
Subscriber Type Str=RegularLine, FinalDestinationFlag=TRUE,
    Outgoing Dial-peer=9910, Call Count On=FALSE,
Source Trkgrp Route Label=, Target Trkgrp Route Label=, tg_label_flag=0,
    Application Call Id=)
001321: Oct 4 21:02:16.768: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001322: Oct 4 21:02:16.768: :cc_get_feature_vsa malloc success
001323: Oct 4 21:02:16.768: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001324: Oct 4 21:02:16.768: cc_get_feature_vsa count is 2
001325: Oct 4 21:02:16.768: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001326: Oct 4 21:02:16.768: :FEATURE_VSA attributes are: feature_name:0,
    fearture_time:1710266976,feature_id:79
```

```
001327: Oct 4 21:02:16.768:
     //281/736483928021/CCAPI/ccIFCallSetupRequestPrivate:
SPI Call Setup Request Is Success; Interface Type=1, FlowMode=1
001328: Oct 4 21:02:16.768: //281/736483928021/CCAPI/ccCallSetContext:
Context=0x64C5D9C0
001329: Oct 4 21:02:16.768: //280/736483928021/CCAPI/ccSaveDialpeerTag:
Outgoing Dial-peer=9910
```

La passerelle H.320 envoie une requête ARQ au contrôleur d'accès

```
001330: Oct 4 21:02:16.768: H225 NONSTD OUTGOING PDU ::=

value ARQnonStandardInfo ::=
{
sourceAlias
{
}
sourceExtAlias
{
}
callingOctet3a 130
interfaceSpecificBillingId "ISDN 2/1:23"
gtd '49414D2C0D0A50524E2C6973646E2A2C2C4E492A...'H
}

001331: Oct 4 21:02:16.772: H225 NONSTD OUTGOING ENCODE BUFFER::=
     80000010A801820C144953444E20322F313A323380A300A049414D2C0D0A50524
     E2C6973646E2A2C2C4E492A2A2A2C0D0A5553492C726174652C632C642C632C310
     D0A544D522C30310D0A43504E2C30342C2C312C39313939393931353630300D0A434
     74E2C30342C2C312C792C332C3939313939333939323363030300D0A4350432C30390D0A46
     43492C2C2C2C2C2C792C0D0A4743492C373336363438333339323533333232313131646
     23830323130303064432386433643763300D0A0D0A
001332: Oct 4 21:02:16.772:
001333: Oct 4 21:02:16.772: RAS OUTGOING PDU ::=

value RasMessage ::= admissionRequest :
{
requestSeqNum 2049
callType pointToPoint : NULL
callModel direct : NULL
endpointIdentifier {"65766C6C00000001"}
destinationInfo
{
dialedDigits : "9199915600"
}
srcInfo
{
dialedDigits : "9193926000",
h323-ID : {"Video-GW-2"}
}
bandWidth 179200
callReferenceValue 28
nonStandardData
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '80000010A801820C144953444E20322F313A3233...'H
}
conferenceID '73648392532211DB8021000D28D3D7C0'H
```

```
activeMC FALSE
answerCall FALSE
canMapAlias TRUE
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
willSupplyUUIEs FALSE
}

001334: Oct 4 21:02:16.776: RAS OUTGOING ENCODE BUFFER::=
     2788080000F000360035003700360036004300360043003000300030003000300030003000300
     031010480C4CCC48933020480C4C6C59333400900056006900640065006F002D0047005700
     2D00328002BC00001C40B500001280B980000010A801820C144953444E20322F313A32338
     0A300A049414D2C0D0A50524E2C6973646E2A2C2C4E492A2A2C0D0A5553492C72617465
     2C632C642C632C310D0A544D522C30310D0A43504E2C30342C2C312C39313939393135363
     0300D0A43474E2C30342C2C312C792C332C393139333932363030300D0A4350432C30390D
     0A4643492C2C2C2C2C2C792C0D0A4743492C373336343833333932353333232313164623831
     0323130303064323864336437633300D0A0D0A73648392532211DB8021000D28D3D7C008E0
     20000180110073651
FB9532211DB817D90162806D3F10100
001335: Oct 4 21:02:16.776: h323chan_dgram_send:Sent UDP msg. Bytes sent: 316
     to 14.50.3.101:1719 fd=2

001336: Oct 4 21:02:16.776: RASLib::GW_RASSendARQ: ARQ (seq# 2049) sent to
     14.50.3.101
001337: Oct 4 21:02:16.776: ISDN Se2/1:23 Q931: TX -> CALL_PROC pd = 8
     callref = 0x809F
Channel ID i = 0xA98381
Exclusive, Channel 1
001338: Oct 4 21:02:16.780: h323chan_chn_process_read_socket
001339: Oct 4 21:02:16.780: h323chan_chn_process_read_socket: fd=2 of type
     CONNECTED has data
001340: Oct 4 21:02:16.780: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=2

001341: Oct 4 21:02:16.780: h323chan_dgram_recvdata:rcvd from
     [14.50.3.101:1719] on fd=2

001342: Oct 4 21:02:16.780: RAS INCOMING ENCODE BUFFER::=
     2B8008008002BC00000E32053406B800EF40B50000122700020480C4C6C59333400900560
     06900640065006F002D00470057002D0032010480C4CCC489332800C20001000200000401
     4CB800
001343: Oct 4 21:02:16.780:
```

[La passerelle H.320 reçoit la réponse ACF du contrôleur d'accès](#)

```
001344: Oct 4 21:02:16.780: RAS INCOMING PDU ::=

value RasMessage ::= admissionConfirm :
{
requestSeqNum 2049
bandWidth 179200
callModel direct : NULL
destCallSignalAddress ipAddress :
{
ip '0E320534'H
port 1720
}
irrFrequency 240
nonStandardData
{
```

```
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '00020480C4C6C593334009005600690064006500...'H
}
willRespondToIRR FALSE
uuiesRequested
{
setup FALSE
callProceeding FALSE
connect FALSE
alerting FALSE
information FALSE
releaseComplete FALSE
facility FALSE
progress FALSE
empty FALSE
}
usageSpec
{

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

```
001345: Oct 4 21:02:16.784: ACF (seq# 2049) rcvd
001346: Oct 4 21:02:16.784: H225 NONSTD INCOMING ENCODE BUFFER::=
     00020480C4C6C59333400900560069006400650065006F002D00470057002D0032010
480C4CCC48933
001347: Oct 4 21:02:16.784:
001348: Oct 4 21:02:16.784: H225 NONSTD INCOMING PDU ::=
```

```
value ACFnonStandardInfo ::=
{
srcTerminalAlias
{
e164 : "9193926000",
h323-ID : {"Video-GW-2"}
}
dstTerminalAlias
{
e164 : "9199915600"
```

```
}
}

parse_acf_nonstd: ACF Nonstd decode succeeded, remlen = 1652959360
001349: Oct 4 21:02:16.792: h323chan_chn_process_read_socket
001350: Oct 4 21:02:16.792: h323chan_chn_process_read_socket: fd=3 of
     type CONNECT_PENDING has data
001351: Oct 4 21:02:16.792: H450 OUTGOING PDU ::=

value CmnArg ::=
{
featureList
{
ssCFreRoutingSupported NULL
ssCTreRoutingSupported NULL
}
}

001352: Oct 4 21:02:16.792: H450 OUTGOING ENCODE BUFFER::= 43000000
001353: Oct 4 21:02:16.792:
001354: Oct 4 21:02:16.792: H450 OUTGOING PDU ::=

value H4501SupplementaryService ::=
{
networkFacilityExtension
{
sourceEntity endpoint : NULL
destinationEntity endpoint : NULL
}
interpretationApdu discardAnyUnrecognizedInvokePdu : NULL
serviceApdu rosApdus :
{
invoke :
{
invokeId 44
opcode local : 85
argument {"43000000"}
}
}
}

001355: Oct 4 21:02:16.792: H450 OUTGOING ENCODE BUFFER::=
     60000110002C0001550443000000
001356: Oct 4 21:02:16.792:
001357: Oct 4 21:02:16.792: H225 NONSTD OUTGOING PDU ::=

value H323_UU_NonStdInfo ::=
{
version 2
protoParam qsigNonStdInfo :
{
iei 4
rawMesg '040288901803A9838128033131316C0C21823931...'H
}
}

001358: Oct 4 21:02:16.796: H225 NONSTD OUTGOING ENCODE BUFFER::=
     6001020001042904020288901803A9838128033131316C0C2182393139333932363
     03030700BA139313939393135363030
001359: Oct 4 21:02:16.796:
```

La passerelle H.320 envoie un message H.225 SETUP à Polycom

```
001360: Oct 4 21:02:16.796: H225.0 OUTGOING PDU ::=

value H323_UserInformation ::=
{
h323-uu-pdu
{
h323-message-body setup :
{
protocolIdentifier { 0 0 8 2250 0 4 }
sourceAddress
{
h323-ID : {"Video-GW-2"}
}
sourceInfo
{
vendor
{
vendor
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
productId '436973636F47617465776179'H
versionId '32'H
}
gateway
{
protocol
{
voice :
{
supportedPrefixes
{

{
prefix dialedDigits : "1#"
}
}
}, h323 :
{
supportedPrefixes
{
}
}
}
}
mc FALSE
undefinedNode FALSE
}
activeMC FALSE
conferenceID '73648392532211DB8021000D28D3D7C0'H
conferenceGoal create : NULL
callType pointToPoint : NULL
sourceCallSignalAddress ipAddress :
{
ip '0E0110DC'H
port 15025
}
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
```

```
}
mediaWaitForConnect FALSE
canOverlapSend FALSE
multipleCalls TRUE
maintainConnection TRUE
}
h4501SupplementaryService
{
'60000110002C0001550443000000'H
}
h245Tunneling FALSE
nonStandardControl
{

{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '600102000104290402889018 03A9838128033131...'H
}
}
}
}
```

```
001361: Oct 4 21:02:16.804: H225.0 OUTGOING ENCODE BUFFER::=
       20A0060008914A0004014009005600690064006 5006F002D00470057002D003228C0B5
       0000120B436973636F4746174657761790032 40023C0504010020402C05010000736483
       92532211DB8021000D28D3D7C000CD0D800007 000E0110DC3AB1110073651FB9532211
       DB817D90162806D3F10100010001800180 11A010010E60000110002C00015504430000
       000100370140B5000012306001020001042904 0288901803A9838128033131316C0C21
       8239313933393236303030700BA139313939 3135363030
001362: Oct 4 21:02:16.804:
Q931 Message IE Decodes
Protocol Discriminator : 0x08
CRV Length : 2
CRV Value : 0x001C
Message Type : 0x05: SETUP
Bearer Capability: Length Of IE=4
Data 88188CA5
Calling Party Number: Length Of IE=12
Data 218239313933393236303030
Called Party Number: Length Of IE=11
Data A139313939393135363030
User-User: Length Of IE=200
Data 0520A0060008914A0004014009005600690064 0065006F002D00470057002D003228C0B5
       0000120B436973636F4746174657761790032 40023C0504010020402C0501000073648392
       532211DB8021000D28D3D7C000CD0D800007 000E0110DC3AB1110073651FB9532211DB81
       7D90162806D3F10100010001800180 11A010010E60000110002C0001550443000000 0100
       370140B500001230600102000104290402889 01803A9838128033131316C0C2182393139
       333932363030 30700BA139313939393135363030
001363: Oct 4 21:02:16.808: h323chan_chn_process_read_socket
001364: Oct 4 21:02:16.808: h323chan_chn_process_read_socket: fd=3 of type
       CONNECTED has data
001365: Oct 4 21:02:16.808: h323chan_chn_process_read_socket: h323chan
       accepted/connected fd=3

001366: Oct 4 21:02:16.836: h323chan_chn_process_read_socket
001367: Oct 4 21:02:16.836: h323chan_chn_process_read_socket: fd=3 of type
       CONNECTED has data
001368: Oct 4 21:02:16.836: h323chan_chn_process_read_socket: h323chan
       accepted/connected fd=3
```

```
Q931 Message IE Decodes
Protocol Discriminator : 0x08
CRV Length : 2
CRV Value : 0x801C
Message Type : 0x01: ALERTING
User-User: Length Of IE=87
Data 052380060008914A000422C0B500233103563530301E52656C6561736520372E352E31202
     D2031314A616E323030352031353A353801B0D800110073651FB9532211DB817D90162806
     D3F1010001800100014010800100
001369: Oct 4 21:02:16.836: H225.0 INCOMING ENCODE BUFFER::= 2380060008914A000
     422C0B500233103563530301E52656C6561736520372E352E31202D2031314A616E323030
     352031353A353801B0D800110073651FB9532211DB817D90162806D3F1010001800100014
     010800100
001370: Oct 4 21:02:16.836:
001371: Oct 4 21:02:16.836: 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 9009
}
productId '56353030'H
versionId '52656C6561736520372E352E31202D2031314A61...'H
}
terminal
{
}
mc FALSE
undefinedNode FALSE
}
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
multipleCalls FALSE
maintainConnection TRUE
presentationIndicator presentationAllowed : NULL
screeningIndicator 2
}
h245Tunneling FALSE
}
}


001372: Oct 4 21:02:16.840: //281/736483928021/CCAPI/cc_api_set_delay_xport:
CallInfo(delay xport=TRUE)
001373: Oct 4 21:02:16.840: //281/736483928021/CCAPI/cc_api_call_alert:
Interface=0x65D7A87C, Progress Indication=NULL(0), Signal Indication=SIGNAL
     RINGBACK(1)
001374: Oct 4 21:02:16.840: //281/736483928021/CCAPI/cc_api_call_alert:
Call Entry(Retry Count=0, Responsed=TRUE)
001375: Oct 4 21:02:16.844: //280/736483928021/CCAPI/ccCallAlert:
```

```
Progress Indication=NULL(0), Signal Indication=SIGNAL RINGBACK(1)
001376: Oct 4 21:02:16.844: //280/736483928021/CCAPI/ccCallAlert:
Call Entry(Responsed=TRUE, AlertSent=TRUE)
001377: Oct 4 21:02:16.844: //280/736483928021/CCAPI/ccGenerateToneInfo:
Stop Tone On Digit=FALSE, Tone=Ring Back,
Tone Direction=Network, Params=0x0, Call Id=280
001378: Oct 4 21:02:16.844: //280/736483928021/H221:():
     h221_set_initial_outgoing_caps:
001379: Oct 4 21:02:16.844: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=1, Include B-channel In H.320 Call=TRUE
001380: Oct 4 21:02:16.844: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=1, Connected=0, Not InSync=1, InSync=0
001381: Oct 4 21:02:16.848: ISDN Se2/1:23 Q931: TX ->
     ALERTING pd = 8 callref = 0x809F
001382: Oct 4 21:02:16.880: h323chan_chn_process_read_socket
001383: Oct 4 21:02:16.880: h323chan_chn_process_read_socket:
     fd=3 of type CONNECTED has data
001384: Oct 4 21:02:16.880: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=3

Q931 Message IE Decodes
Protocol Discriminator : 0x08
CRV Length : 2
CRV Value : 0x801C
Message Type : 0x07: CONNECT
Display: Length Of IE=3
Data 323232
User-User: Length Of IE=110
Data 0522C0060008914A0004000E3205340A2322C0B500233103563530301E52656C6
     561736520372E352E31202D2031314A616E323030352031353A35380073648392
     532211DB8021000D28D3D7C01D0CC0110073651FB9532211DB817D90162806D3F
     10100018001000140108000100
001385: Oct 4 21:02:16.884: H225.0 INCOMING ENCODE BUFFER::= 22C006000
     8914A0004000E3205340A2322C0B500233103563530301E52656C656173652037
     2E352E31202D2031314A616E323030352031353A353800736483925322110D802
     1000D28D3D7C01D0CC0110073651FB9532211DB817D90162806D3F10100018001
     00014010800100
001386: Oct 4 21:02:16.884:
```

L'appel est connecté sur la balise IP

```
001387: Oct 4 21:02:16.884: H225.0 INCOMING PDU ::=

value H323_UserInformation ::=
{
h323-uu-pdu
{
h323-message-body connect :
{
protocolIdentifier { 0 0 8 2250 0 4 }
h245Address ipAddress :
{
ip '0E320534'H
port 2595
}
destinationInfo
{
vendor
{
vendor
```

```
{
t35CountryCode 181
t35Extension 0
manufacturerCode 9009
}
productId '56353030'H
versionId '52656C6561736520372E352E31202D2031314A61...'H
}
terminal
{
}
mc FALSE
undefinedNode FALSE
}
conferenceID '73648392532211DB8021000D28D3D7C0'H
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
multipleCalls FALSE
maintainConnection TRUE
presentationIndicator presentationAllowed : NULL
screeningIndicator 2
}
h245Tunneling FALSE
}
}

001388: Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65D7A87C, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001389: Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, Responsed=TRUE, Retry Count=0)
001390: Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_event_indication:
Event=148, Call Id=281
001391: Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001392: Oct 4 21:02:16.888: H225 NONSTD OUTGOING PDU ::=

value IRRperCallnonStandardInfo ::=
{
startTime 1159995736
}

001393: Oct 4 21:02:16.888: H225 NONSTD OUTGOING ENCODE BUFFER::= 7045242158
001394: Oct 4 21:02:16.888:
001395: Oct 4 21:02:16.888: RAS OUTGOING PDU ::=

value RasMessage ::= infoRequestResponse :
{
requestSeqNum 2050
endpointType
{
vendor
{
vendor
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
productId '436973636F47617465776179'H
versionId '32'H
}
```

```
gateway
{
protocol
{
voice :
{
supportedPrefixes
{

{
prefix dialedDigits : "1#"
}
}
}, h323 :
{
supportedPrefixes
{
}
}
}
}
mc FALSE
undefinedNode FALSE
}
endpointIdentifier {"65766C6C00000001"}
rasAddress ipAddress :
{
ip '0E0110DC'H
port 53355
}
callSignalAddress
{
ipAddress :
{
ip '0E0110DC'H
port 1720
}
}
endpointAlias
{
dialedDigits : "7561",
dialedDigits : "4321",
dialedDigits : "8000",
dialedDigits : "7111",
dialedDigits : "7931",
dialedDigits : "7560",
dialedDigits : "7701",
dialedDigits : "7702",
dialedDigits : "7565",
h323-ID : {"Video-GW-2"}
}
perCallInfo
{

{
nonStandardData
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '7045242158'H
```

```
}
callReferenceValue 28
conferenceID '73648392532211DB8021000D28D3D7C0'H
originator TRUE
h245
{
}
callSignaling
{
}
callType pointToPoint : NULL
bandWidth 179200
callModel direct : NULL
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
substituteConfIDs
{
}
usageInformation
{
nonStandardUsageFields
{
}
connectTime 1159995736
}
}
}
needResponse FALSE
unsolicited TRUE
}


001396: Oct 4 21:02:16.900: RAS OUTGOING ENCODE BUFFER::=
      5AC0080128C0B50000120B436973636F4761746577617900032400 23C05040100
      20402C050100078000360035003700360036004300360043003000 3000300030
      003000300030003100 0E0110DCD06B01000E0110DC06B80A0180A8 9401807654
      0180B3330180A4440180AC640180A8930180AA340180AA350180A89 840090056
      006900640065006F002D00470057002D003201E100B500001205704 524215800
      1C73648392532211DB8021000D28D3D7C0802002BC0003C90011007 3651FB953
      2211DB817D90162806D3F10100072000C0452421570E24010001 80
001397: Oct 4 21:02:16.900: h323chan_dgram_send:Sent UDP msg. Bytes sent:
      219 to 14.50.3.101:1719 fd=2

001398: Oct 4 21:02:16.900: RASLib::GW_RASSendIRR: IRR (seq# 2050) sent to
      14.50.3.101
001399: Oct 4 21:02:16.900: //280/736483928021/CCAPI/ccGenerateToneInfo:
Stop Tone On Digit=FALSE, Tone=Null,
Tone Direction=Network, Params=0x0, Call Id=280
001400: Oct 4 21:02:16.900: //280/xxxxxxxxxxxx/CCAPI/ccConferenceCreate:
(confID=0x64D15380, callID1=0x118, callID2=0x119, tag=0x0)
001401: Oct 4 21:02:16.900: //280/736483928021/CCAPI/ccConferenceCreate:
Conference Id=0x64D15380, Call Id1=280, Call Id2=281, Tag=0x0
001402: Oct 4 21:02:16.900: //280/xxxxxxxxxxxx/CCAPI/cc_api_bridge_done:
Conference Id=0x12, Source Interface=0x65A8CAD4, Source Call Id=280,
Destination Call Id=281, Disposition=0x0, Tag=0xFFFFFFFF
001403: Oct 4 21:02:16.904: //281/xxxxxxxxxxxx/CCAPI/cc_api_get_xcode_stream:

001404: Oct 4 21:02:16.904: cc_api_get_xcode_stream : 4369
001405: Oct 4 21:02:16.904: //281/xxxxxxxxxxxx/CCAPI/cc_api_bridge_done:
Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281,
Destination Call Id=280, Disposition=0x0, Tag=0x0
001406: Oct 4 21:02:16.904: //280/736483928021/CCAPI/cc_generic_bridge_done:
Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281,
```

```
Destination Call Id=280, Disposition=0x0, Tag=0x0
001407: Oct 4 21:02:16.904: //280/736483928021/CCAPI/ccConferenceCreate:
Call Entry(Conference Id=0x12, Destination Call Id=281)
001408: Oct 4 21:02:16.904: //281/736483928021/CCAPI/ccConferenceCreate:
Call Entry(Conference Id=0x12, Destination Call Id=280)
001409: Oct 4 21:02:16.904:
    //280/736483928021/CCAPI/cc_process_notify_bridge_done:
Conference Id=0x12, Call Id1=280, Call Id2=281
001410: Oct 4 21:02:16.904: //280/736483928021/CCAPI/ccCallConnect:
Progress Indication=NULL(0), Data Bitmask=0x0
001411: Oct 4 21:02:16.904: //280/736483928021/CCAPI/ccCallConnect:
Call Entry(Connected=TRUE, Responsed=TRUE)
```

La passerelle H.320 envoie CONNECT côté RNIS et l'appel est connecté

Il s'agit de l'appel principal.

```
001412: Oct 4 21:02:16.908: ISDN Se2/1:23 Q931: TX -> CONNECT pd = 8
    callref = 0x809F
001413: Oct 4 21:02:16.916: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK pd = 8
    callref = 0x009F
001414: Oct 4 21:02:16.916: %ISDN-6-CONNECT: Interface Serial2/1:0 is now
    connected to 9193926000 N/A
```

La passerelle H.320 envoie le jeu de fonctionnalités initial

```
001415: Oct 4 21:02:17.056: //280/736483928021/H221:():
    h221_outgoing_message_entry:
Outgoing BAS Command=Send Initial Caps
001416: Oct 4 21:02:17.056: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel=1, Include B-channel In H.320 Call=TRUE
```

La synchronisation de trames est établie sur B-Channel 1

```
001417: Oct 4 21:02:17.056: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel=1, B-channel H.221 Sync=TRUE
001418: Oct 4 21:02:17.056: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel(s)=1, Connected=0, Not InSync=0, InSync=1
```

La passerelle H.320 reçoit le premier appel secondaire

```
001419: Oct 4 21:02:17.056: ISDN Se2/1:23 Q931:
    RX <- SETUP pd = 8 callref = 0x00A0
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98382
Exclusive, Channel 2
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915601'
Plan:ISDN, Type:National
```

```
001420: Oct 4 21:02:17.060:
     //-1/7392E89B8022/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
     Presentation=Allowed),
Called Number=9199915601(TON=National, NPI=ISDN),
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001421: Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001422: Oct 4 21:02:17.060: :cc_get_feature_vsa malloc success
001423: Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001424: Oct 4 21:02:17.060: cc_get_feature_vsa count is 3
001425: Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001426: Oct 4 21:02:17.060: :FEATURE_VSA attributes are: feature_name:0,
     fearture_time:1710267192,feature_id:80
001427: Oct 4 21:02:17.060: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=2, Q.931 Connect Indicated=TRUE
001428: Oct 4 21:02:17.060: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=1, Connected=0, Not InSync=0, InSync=1
001429: Oct 4 21:02:17.060: //282/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001430: Oct 4 21:02:17.060: //282/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, Responsed=FALSE, Retry Count=0)
001431: Oct 4 21:02:17.064: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=2, Include B-channel In H.320 Call=TRUE
001432: Oct 4 21:02:17.064: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=2, Connected=1, Not InSync=1, InSync=1
001433: Oct 4 21:02:17.064: ISDN Se2/1:23 Q931:
     TX -> CALL_PROC pd = 8 callref = 0x80A0
Channel ID i = 0xA98382
Exclusive, Channel 2
```

Le premier appel secondaire est connecté

```
001434: Oct 4 21:02:17.064: ISDN Se2/1:23 Q931: TX ->
     CONNECT pd = 8 callref = 0x80A0
001435: Oct 4 21:02:17.076: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK pd = 8
     callref = 0x00A0
001436: Oct 4 21:02:17.076: %ISDN-6-CONNECT: Interface Serial2/1:1 is now
     connected to 9193926000 N/A
```

La synchronisation de trames est établie sur B-Channel 2

```
001437: Oct 4 21:02:17.376: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=2, B-channel H.221 Sync=TRUE
001438: Oct 4 21:02:17.376: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=2, Connected=1, Not InSync=0, InSync=2
```
La passerelle H.320 reçoit le deuxième appel secondaire

```
001439: Oct 4 21:02:17.376: ISDN Se2/1:23 Q931: RX <- SETUP pd =
```

```
        8 callref = 0x00A1
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98383
Exclusive, Channel 3
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915602'
Plan:ISDN, Type:National
001440: Oct 4 21:02:17.380:
     //-1/73C3BCD78023/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
     Presentation=Allowed),
Called Number=9199915602(TON=National, NPI=ISDN),
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001441: Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001442: Oct 4 21:02:17.380: :cc_get_feature_vsa malloc success
001443: Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001444: Oct 4 21:02:17.380: cc_get_feature_vsa count is 4
001445: Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001446: Oct 4 21:02:17.380: :FEATURE_VSA attributes are: feature_name:0,
     fearture_time:1710266760,feature_id:81
001447: Oct 4 21:02:17.380: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=3, Q.931 Connect Indicated=TRUE
001448: Oct 4 21:02:17.380: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=2, Connected=1, Not InSync=0, InSync=2
001449: Oct 4 21:02:17.380: //283/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001450: Oct 4 21:02:17.380: //283/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, Responsed=FALSE, Retry Count=0)
001451: Oct 4 21:02:17.380: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=3, Include B-channel In H.320 Call=TRUE
001452: Oct 4 21:02:17.384: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=3, Connected=2, Not InSync=1, InSync=2
001453: Oct 4 21:02:17.384: ISDN Se2/1:23 Q931: TX ->
     CALL_PROC pd = 8 callref = 0x80A1
Channel ID i = 0xA98383
Exclusive, Channel 3
```

Le deuxième appel secondaire est connecté

```
001454: Oct 4 21:02:17.384: ISDN Se2/1:23 Q931: TX ->
     CONNECT pd = 8 callref = 0x80A1
001455: Oct 4 21:02:17.392: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK
     pd = 8 callref = 0x00A1
001456: Oct 4 21:02:17.396: %ISDN-6-CONNECT: Interface Serial2/1:2
     is now connected to 9193926000 N/A
001457: Oct 4 21:02:17.532: //280/736483928021/H221:():
     dsmp_h221_update_dsp_timestamp:
```

```
BAS Message Timestamp=500(ms), Last Squelch Timestamp=0(ms)
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE
001458: Oct 4 21:02:17.536: //280/736483928021/H221:():
    h221_incoming_message_entry:
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
```

La passerelle H.320 reçoit la commande BAS du point de terminaison vidéo dans le RTPC

La passerelle H.320 reçoit la commande BAS du point de terminaison vidéo dans le RTPC, ce qui indique qu'elle peut accepter les fonctionnalités H.263.

```
001459: Oct 4 21:02:17.536: //280/736483928021/H221:():
    h221_incoming_handle_mbe:
MBE Received=H.263, Length=18
001460: Oct 4 21:02:17.536: //280/736483928021/H221:():
    h221_incoming_message_entry:
Return Code=H221 Partial Message
001461: Oct 4 21:02:17.536: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001462: Oct 4 21:02:17.536: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
```

La synchronisation de trames est établie sur B-Channel 3

```
001463: Oct 4 21:02:17.696: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel=3, B-channel H.221 Sync=TRUE
001464: Oct 4 21:02:17.696: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel(s)=3, Connected=2, Not InSync=0, InSync=3
```

La passerelle H.320 reçoit le troisième appel secondaire

```
001465: Oct 4 21:02:17.696: ISDN Se2/1:23 Q931:
    RX <- SETUP pd = 8 callref = 0x00A2
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98384
Exclusive, Channel 4
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915603'
Plan:ISDN, Type:National
001466: Oct 4 21:02:17.700:
    //-1/73F4907B8024/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
    Presentation=Allowed),
Called Number=9199915603(TON=National, NPI=ISDN),
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001467: Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001468: Oct 4 21:02:17.700: :cc_get_feature_vsa malloc success
```

```
001469: Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001470: Oct 4 21:02:17.700: cc_get_feature_vsa count is 5
001471: Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001472: Oct 4 21:02:17.700: :FEATURE_VSA attributes are:
     feature_name:0,fearture_time:1710266544,feature_id:82
001473: Oct 4 21:02:17.700: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=4, Q.931 Connect Indicated=TRUE
001474: Oct 4 21:02:17.700: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=3, Connected=2, Not InSync=0, InSync=3
001475: Oct 4 21:02:17.700: //284/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001476: Oct 4 21:02:17.700: //284/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, Responsed=FALSE, Retry Count=0)
001477: Oct 4 21:02:17.700: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=4, Include B-channel In H.320 Call=TRUE
001478: Oct 4 21:02:17.704: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=4, Connected=3, Not InSync=1, InSync=3
001479: Oct 4 21:02:17.704: ISDN Se2/1:23 Q931: TX -> CALL_PROC
     pd = 8 callref = 0x80A2
Channel ID i = 0xA98384
Exclusive, Channel 4
```

Le troisième appel secondaire est connecté

```
001480: Oct 4 21:02:17.704: ISDN Se2/1:23 Q931: TX ->
     CONNECT pd = 8 callref = 0x80A2
001481: Oct 4 21:02:17.712: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK pd =
     8 callref = 0x00A2
001482: Oct 4 21:02:17.716: %ISDN-6-CONNECT: Interface Serial2/1:3
     is now connected to 9193926000 N/A
```

La synchronisation de trames est établie sur B-Channel 4

```
001483: Oct 4 21:02:18.016: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=4, B-channel H.221 Sync=TRUE
001484: Oct 4 21:02:18.016: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=4, Connected=3, Not InSync=0, InSync=4
```

La passerelle H.320 reçoit le quatrième appel secondaire

```
001485: Oct 4 21:02:18.016: ISDN Se2/1:23 Q931:
     RX <- SETUP pd = 8 callref = 0x00A3
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98385
Exclusive, Channel 5
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
```

```
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915604'
Plan:ISDN, Type:National
001486: Oct 4 21:02:18.020:
     //-1/742566BC8025/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
     Presentation=Allowed),
Called Number=9199915604(TON=National, NPI=ISDN),
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001487: Oct 4 21:02:18.020: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001488: Oct 4 21:02:18.020: :cc_get_feature_vsa malloc success
001489: Oct 4 21:02:18.020: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001490: Oct 4 21:02:18.020: cc_get_feature_vsa count is 6
001491: Oct 4 21:02:18.020: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001492: Oct 4 21:02:18.020: :FEATURE_VSA attributes are: feature_name:
     0,fearture_time:1710266328,feature_id:83
001493: Oct 4 21:02:18.020: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=5, Q.931 Connect Indicated=TRUE
001494: Oct 4 21:02:18.020: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=4, Connected=3, Not InSync=0, InSync=4
001495: Oct 4 21:02:18.020: //285/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001496: Oct 4 21:02:18.020: //285/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, Responsed=FALSE, Retry Count=0)
001497: Oct 4 21:02:18.024: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=5, Include B-channel In H.320 Call=TRUE
001498: Oct 4 21:02:18.024: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=5, Connected=4, Not InSync=1, InSync=4
001499: Oct 4 21:02:18.024: ISDN Se2/1:23 Q931: TX ->
     CALL_PROC pd = 8 callref = 0x80A3
Channel ID i = 0xA98385
Exclusive, Channel 5
```

Le quatrième appel secondaire est connecté

```
001500: Oct 4 21:02:18.024: ISDN Se2/1:23 Q931: TX ->
     CONNECT pd = 8 callref = 0x80A3
001501: Oct 4 21:02:18.032: //280/736483928021/H221:():
     dsmp_h221_update_dsp_timestamp:
BAS Message Timestamp=1000(ms), Last Squelch Timestamp=0(ms)
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE
001502: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_message_entry:
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0

001503: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Cisco H.221
     Version Indication, Version=(1.0)
001504: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Caps From H.320
     Peer Endpoint Present
```

```
001505: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=H.263 Non-Standard
     Caps, Custom Picture Number=0
001506: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Standard MPI Received=TRUE, Standard MPI=2
001507: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)
001508: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=H.263 Non-Standard
     Caps, Custom Picture Number=1
001509: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Standard MPI Received=TRUE, Standard MPI=1
001510: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)
001511: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Cisco
     H.221 Minimum Bchannel Caps Indication, B-channel Caps=1
001512: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_unsupported_other_mode:
BAS=0x60
001513: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_unsupported_other_mode:
BAS=0x70
001514: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_incoming_handle_cap_mark:
Audio Codec(s)=0x0, H.261 Cap=FALSE, H.263 Cap=TRUE,
     H.264 Cap=FALSE, B-channel Caps=6
001515: Oct 4 21:02:18.036: //280/736483928021/H221:():
     dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001516: Oct 4 21:02:18.036: //280/736483928021/H221:():
     dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001517: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps
001518: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=1, Include B-channel In H.320 Call=TRUE
001519: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=1, B-channel H.221 Sync=TRUE
001520: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=1, Q.931 Connect Indicated=TRUE
```

La synchronisation de trames est établie sur B-Channel 4

```
001521: Oct 4 21:02:18.036: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=5, Connected=5, Not InSync=1, InSync=4
001522: Oct 4 21:02:18.036: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK pd
     = 8 callref = 0x00A3
001523: Oct 4 21:02:18.040: %ISDN-6-CONNECT: Interface Serial2/1:4
     is now connected to 9193926000 N/A
```

```
001524: Oct 4 21:02:18.336: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=5, B-channel H.221 Sync=TRUE
001525: Oct 4 21:02:18.336: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=5, Connected=5, Not InSync=0, InSync=5
```

La passerelle H.320 reçoit le cinquième appel secondaire

```
001526: Oct 4 21:02:18.336: ISDN Se2/1:23 Q931:
     RX <- SETUP pd = 8 callref = 0x00A4
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98386
Exclusive, Channel 6
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915605'
Plan:ISDN, Type:National
001527: Oct 4 21:02:18.340:
     //-1/74563AF88026/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User,
     Failed, Presentation=Allowed),
Called Number=9199915605(TON=National, NPI=ISDN),
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001528: Oct 4 21:02:18.340: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001529: Oct 4 21:02:18.340: :cc_get_feature_vsa malloc success
001530: Oct 4 21:02:18.340: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001531: Oct 4 21:02:18.340: cc_get_feature_vsa count is 7
001532: Oct 4 21:02:18.340: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001533: Oct 4 21:02:18.340: :FEATURE_VSA attributes are:
     feature_name:0,fearture_time:1710266112,feature_id:84
001534: Oct 4 21:02:18.340: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=6, Q.931 Connect Indicated=TRUE
001535: Oct 4 21:02:18.340: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=5, Connected=5, Not InSync=0, InSync=5
001536: Oct 4 21:02:18.340: //286/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001537: Oct 4 21:02:18.340: //286/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, Responsed=FALSE, Retry Count=0)
001538: Oct 4 21:02:18.340: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel=6, Include B-channel In H.320 Call=TRUE
001539: Oct 4 21:02:18.344: //280/736483928021/H221:():
     h221_set_outgoing_bchnl_map:
B-Channel(s)=6, Connected=6, Not InSync=1, InSync=5
001540: Oct 4 21:02:18.344: ISDN Se2/1:23 Q931:
     TX -> CALL_PROC pd = 8 callref = 0x80A4
Channel ID i = 0xA98386
Exclusive, Channel 6
```

Le cinquième appel secondaire est connecté

```
001541: Oct 4 21:02:18.344: ISDN Se2/1:23 Q931:
    TX -> CONNECT pd = 8 callref = 0x80A4
001542: Oct 4 21:02:18.352: ISDN Se2/1:23 Q931:
    RX <- CONNECT_ACK pd = 8 callref = 0x00A4
001543: Oct 4 21:02:18.356: %ISDN-6-CONNECT:
    Interface Serial2/1:5 is now connected to 9193926000 N/A
001544: Oct 4 21:02:18.532: //280/736483928021/H221:():
    dsmp_h221_update_dsp_timestamp:
BAS Message Timestamp=1500(ms), Last Squelch Timestamp=0(ms)
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE
001545: Oct 4 21:02:18.536: //280/736483928021/H221:():
    h221_incoming_message_entry:
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
001546: Oct 4 21:02:18.536: //280/736483928021/H221:():
    h221_incoming_handle_mbe:
MBE Received=H.263, Length=18
001547: Oct 4 21:02:18.536: //280/736483928021/H221:():
    h242_incoming_handle_mbe_h263_caps:
Identical H.263 Caps Detected, skip parsing
001548: Oct 4 21:02:18.536: //280/736483928021/H221:():
    h221_incoming_message_entry:
Return Code=H221 Partial Message
001549: Oct 4 21:02:18.536: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001550: Oct 4 21:02:18.536: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
```

La synchronisation de trames est établie sur le canal B 6

```
001551: Oct 4 21:02:18.656: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel=6, B-channel H.221 Sync=TRUE
001552: Oct 4 21:02:18.656: //280/736483928021/H221:():
    h221_set_outgoing_bchnl_map:
B-Channel(s)=6, Connected=6, Not InSync=0, InSync=6
001553: Oct 4 21:02:19.032: //280/736483928021/H221:():
    dsmp_h221_update_dsp_timestamp:
BAS Message Timestamp=2000(ms), Last Squelch Timestamp=0(ms)
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE
001554: Oct 4 21:02:19.036: //280/736483928021/H221:():
    h221_incoming_message_entry:
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
```

La passerelle H.320 reçoit des fonctionnalités définies à partir du point de terminaison vidéo dans le RTPC

Le jeu de fonctionnalités spécifie l'intervalle d'image minimal (MPI), le rapport d'aspect, le codec audio, le codec vidéo et le nombre de canaux b pris en charge par le point d'extrémité vidéo.

```
001555: Oct 4 21:02:19.036: //280/736483928021/H221:():
    h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Cisco
    H.221 Version Indication, Version=(1.0)
001556: Oct 4 21:02:19.036: //280/736483928021/H221:():
    h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Caps From
    H.320 Peer Endpoint Present
```

```
001557: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=
      H.263 Non-Standard Caps, Custom Picture Number=0
001558: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Standard MPI Received=TRUE, Standard MPI=2
001559: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)
001560: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=
      H.263 Non-Standard Caps, Custom Picture Number=1
001561: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Standard MPI Received=TRUE, Standard MPI=1
001562: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)
001563: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=
      Cisco H.221 Minimum Bchannel Caps Indication, B-channel Caps=1
001564: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_handle_cap_mark:
Audio Codec(s)=0x2A, H.261 Cap=FALSE, H.263 Cap=TRUE,
      H.264 Cap=FALSE, B-channel Caps=6
001565: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_unsupported_other_mode:
BAS=0x60
001566: Oct 4 21:02:19.036: //280/736483928021/H221:():
      h221_incoming_unsupported_other_mode:
BAS=0x70
001567: Oct 4 21:02:19.036: //280/736483928021/H221:():
      dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001568: Oct 4 21:02:19.036: //280/736483928021/H221:():
      dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
```

La passerelle H.320 envoie la fonctionnalité définie sur le point d'extrémité vidéo dans le RTPC

```
001569: Oct 4 21:02:19.036: //280/736483928021/H221:():
      dsmp_h221_build_audio_caps_ind:
Audio Codec(s)=G.711 u-law,
001570: Oct 4 21:02:19.036: //280/736483928021/H221:():
      dsmp_h221_calculate_max_video_bandwidth_internal:
Calculation Type=Max Capability, B-Channel(s)=6, Bandwidth=3017
001571: Oct 4 21:02:19.036: //280/736483928021/H221:():
      dsmp_h221_build_video_caps_ind:
Number Of Caps=1
001572: Oct 4 21:02:19.036: //280/736483928021/H221:():
      dsmp_h221_build_video_caps_ind:
Video Caps=H.263, Max Bit Rate=3017
16CIF=0, 4CIF=2, CIF=1, QCIF=1
format_bit_mask=0xF, cc_h263_base_caps_mask=0x204,
      cc_h263_options_mask=0x200000, ccH263Options->bit_mask=0x10000000
001573: Oct 4 21:02:19.040: //280/736483928021/CCAPI/cc_api_caps_ind:
Destination Interface=0x65D7A87C, Destination Call Id=281, Source Call Id=280,
Caps(Codec=0x1, Fax Rate=0x1, Vad=0x1,
Modem=0x2, Codec Bytes=20, Signal Type=3)
```

```
001574: Oct 4 21:02:19.040: //280/736483928021/CCAPI/cc_api_caps_ind:
Caps(Playout Mode=1, Playout Initial=60(ms), Playout Min=40(ms),
Playout Max=250(ms), Fax Nom=300(ms))
001575: Oct 4 21:02:19.044: h323chan_chn_process_read_socket
001576: Oct 4 21:02:19.044: h323chan_chn_process_read_socket:
      fd=4 of type CONNECT_PENDING has data
```

La passerelle H.320 annonce des fonctionnalités audio (G711ulaw) et vidéo (H.263) via TCS à Polycom via la passerelle IP

```
001577: Oct 4 21:02:19.044: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :
{
sequenceNumber 1
protocolIdentifier { 0 0 8 245 0 7 }
multiplexCapability h2250Capability :
{
maximumAudioDelayJitter 20
receiveMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
transmitMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{

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

{
centralizedControl FALSE
distributedControl FALSE
```

```
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
mcCapability
{
centralizedConferenceMC FALSE
decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
h261aVideoPacketization FALSE
rtpPayloadType
{

{
payloadDescriptor rfc-number : 2429
}
}
}
logicalChannelSwitchingCapability FALSE
t120DynamicPortCapability FALSE
}
capabilityTable
{

{
capabilityTableEntryNumber 34
capability receiveRTPAudioTelephonyEventCapability :
{
dynamicRTPPayloadType 101
audioTelephoneEvent "0-16"
}
},
{
capabilityTableEntryNumber 3
capability receiveAudioCapability : g711Ulaw64k : 20
},
{
capabilityTableEntryNumber 39
capability receiveVideoCapability : h263VideoCapability :
{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3017
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
```

```
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{

{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
}
}
}
}
capabilityDescriptors
{

{
capabilityDescriptorNumber 1
simultaneousCapabilities
{

{
```

```
3
},

{
39
},

{
34
}
}
}
}
}
```

```
001578: Oct 4 21:02:19.060: H245 MSC OUTGOING ENCODE BUFFER::=
     0270010600088175000780198000140001000001000001000402040008097C0
     66001000100028000218A061404302D313680000220C01380002609FC00000A
     0BC820705001001B080000104000AF007700AF00774120400057003B0057003
     B402040008001020000020000260000021
```

001579: Oct 4 21:02:19.060:

La passerelle H.320 envoie une requête MSD à Polycom

001580: Oct 4 21:02:19.064: H245 MSC OUTGOING PDU ::=

```
value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :
{
terminalType 60
statusDeterminationNumber 4223
}
```

001581: Oct 4 21:02:19.064: H245 MSC OUTGOING ENCODE BUFFER::= 01003C40107F
001582: Oct 4 21:02:19.064:
001583: Oct 4 21:02:19.064: h323chan_chn_process_read_socket
001584: Oct 4 21:02:19.064: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001585: Oct 4 21:02:19.064: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001586: Oct 4 21:02:19.088: h323chan_chn_process_read_socket
001587: Oct 4 21:02:19.088: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001588: Oct 4 21:02:19.088: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001589: Oct 4 21:02:19.088: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 433
001590: Oct 4 21:02:19.088: H245 MSC INCOMING ENCODE BUFFER::=

```
     0270010600088175007801C00003C0001000001000001000402 0D0108097C1007
     000088171000000118000002430166 0C0B5000001019340BB80010CB50000010101
     200001800000124301660C0B50000010192407D00010CB50000010101200 0018000
     0224301660C0B50000010191405DC0010CB50000010101200001800003243 01160
     00060007B8350100407D0001001200018000042430116000060007B8350100405D
     C00100120001800005243016 60C0B50000010196403E80010CB500000101012000
     018000062140138000072240078000082 0C0138000009204013800000A0C0021 6000
     0700 088171000001400F0005029140 02A2001D003200140062001500420007 8000
     0B09FC00000A0EFF20705001001B080000104000AF007700AF0077412 04000 5700
     3B0057003B40204080000C0C000900C0B500233102210180000D0C00122 0C0B500
     00010 19D010CB5000010101101080000E08B0000EFF40000F48C6003280001 04A
     0C0900000600008816001000032800011 04B50023310451534044008000003090000
     0001000200030004000500060007000800090040000A 000B000C000D000E0100 0F00
```

```
     10000011
001591: Oct 4 21:02:19.092:
```

```
001592: Oct 4 21:02:19.092: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :
{
sequenceNumber 1
protocolIdentifier { 0 0 8 245 0 7 }
multiplexCapability h2250Capability :
{
maximumAudioDelayJitter 60
receiveMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{

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

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

{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
```

```
distributedVideo FALSE
}
}
}
mcCapability
{
centralizedConferenceMC FALSE
decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
h261aVideoPacketization FALSE
rtpPayloadType
{

{
payloadDescriptor rfc-number : 2429
},
{
payloadDescriptor oid : { 0 0 8 241 0 0 0 }
}
}
}
}
capabilityTable
{

{
capabilityTableEntryNumber 1
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '93'H
}
maxBitRate 48000
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
}
}
}
},
{
capabilityTableEntryNumber 2
```

```
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '92'H
}
maxBitRate 32000
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
}
}
}
},
{
capabilityTableEntryNumber 3
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '91'H
}
maxBitRate 24000
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
}
}
```

```
}
},
{
capabilityTableEntryNumber 4
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier standard : { 0 0 7 7221 1 0 }
maxBitRate 32000
collapsing
{

{
parameterIdentifier standard : 1
parameterValue unsignedMin : 1
}
}
}
},
{
capabilityTableEntryNumber 5
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier standard : { 0 0 7 7221 1 0 }
maxBitRate 24000
collapsing
{

{
parameterIdentifier standard : 1
parameterValue unsignedMin : 1
}
}
}
},
{
capabilityTableEntryNumber 6
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '96'H
}
maxBitRate 16000
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
```

```
            }
          }
        }
      },
      {
      capabilityTableEntryNumber 7
      capability receiveAudioCapability : g722-64k : 20
      },
      {
      capabilityTableEntryNumber 8
      capability receiveAudioCapability : g728 : 8
      },
      {
      capabilityTableEntryNumber 9
      capability receiveAudioCapability : g711Ulaw64k : 20
      },
      {
      capabilityTableEntryNumber 10
      capability receiveAudioCapability : g711Alaw64k : 20
      },
      {
      capabilityTableEntryNumber 11
      capability receiveVideoCapability : genericVideoCapability :
      {
      capabilityIdentifier standard : { 0 0 8 241 0 0 1 }
      maxBitRate 3840
      collapsing
      {

      {
      parameterIdentifier standard : 41
      parameterValue booleanArray : 64
      },
      {
      parameterIdentifier standard : 42
      parameterValue unsignedMin : 29
      },
      {
      parameterIdentifier standard : 3
      parameterValue unsignedMin : 20
      },
      {
      parameterIdentifier standard : 6
      parameterValue unsignedMin : 21
      },
      {
      parameterIdentifier standard : 4
      parameterValue unsignedMin : 7
      }
      }
      }
      },
      {
      capabilityTableEntryNumber 12
      capability receiveVideoCapability : h263VideoCapability :
      {
      sqcifMPI 1
      qcifMPI 1
      cifMPI 1
      cif4MPI 2
      maxBitRate 3840
      unrestrictedVector FALSE
      arithmeticCoding FALSE
      advancedPrediction TRUE
```

```
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{

{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
}
},
```

```
{
capabilityTableEntryNumber 13
capability receiveVideoCapability : genericVideoCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 9009
}
data '2101'H
}
}
},
{
capabilityTableEntryNumber 14
capability receiveVideoCapability : genericVideoCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '9D'H
}
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue booleanArray : 16
}
}
}
},
{
capabilityTableEntryNumber 15
capability receiveVideoCapability : h261VideoCapability :
{
qcifMPI 1
cifMPI 1
temporalSpatialTradeOffCapability FALSE
maxBitRate 3840
stillImageTransmission FALSE
}
},
{
capabilityTableEntryNumber 16
capability receiveAndTransmitDataApplicationCapability :
{
```

```
application h224 : hdlcFrameTunnelling : NULL
maxBitRate 50
}
},
{
capabilityTableEntryNumber 17
capability receiveAndTransmitDataApplicationCapability :
{
application genericDataCapability :
{
capabilityIdentifier standard : { 0 0 8 224 1 0 }
}
maxBitRate 50
}
},
{
capabilityTableEntryNumber 18
capability nonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 9009
}
data '51534044'H
}
}
}
capabilityDescriptors
{

{
capabilityDescriptorNumber 0
simultaneousCapabilities
{

{
1,
2,
3,
4,
5,
6,
7,
8,
9,
10
},

{
11,
12,
13,
14,
15
},

{
16,
17
},

{
```

```
18
}
}
}
}
}

001593: Oct 4 21:02:19.140: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
     bytesLeftToDecode = 0
001594: Oct 4 21:02:19.140: h245_decode_nonstd_cap: parse_tcs_nonstd failed
001595: Oct 4 21:02:19.140: h245_decode_nonstd_cap: parse_tcs_nonstd failed
001596: Oct 4 21:02:19.140: h245_decode_one_pdu: Read Pkt body: more_pdus:0
     rc:0 asn_rc:0
001597: Oct 4 21:02:19.144: //281/736483928021/CCAPI/cc_api_caps_ind:
Destination Interface=0x65A8CAD4, Destination Call Id=280, Source Call Id=281,
Caps(Codec=0x1, Fax Rate=0x2, Vad=0x2,
Modem=0x0, Codec Bytes=20, Signal Type=2)
001598: Oct 4 21:02:19.144: //281/736483928021/CCAPI/cc_api_caps_ind:
Caps(Playout Mode=1, Playout Initial=60(ms), Playout Min=40(ms),
Playout Max=250(ms), Fax Nom=300(ms))
001599: Oct 4 21:02:19.144: //280/736483928021/CCAPI/cc_api_caps_ack:
Destination Interface=0x65D7A87C, Destination Call Id=281, Source Call Id=280,
Caps(Codec=g711ulaw(0x1), Fax Rate=FAX_RATE_VOICE(0x2), Vad=ON(0x2),
Modem=OFF(0x0), Codec Bytes=20, Signal Type=2, Seq Num Start=0)
001600: Oct 4 21:02:19.148: //280/736483928021/H221:():
     dsmp_h221_decode_ccapi_audio_caps:
Audio Codec(s)=G.711 u-law,
001601: Oct 4 21:02:19.148: //280/736483928021/H221:():
     dsmp_h221_decode_ccapi_video_caps:
Video Caps=H.263, Max Bit Rate=3840
16CIF=0, 4CIF=2, CIF=1, QCIF=1
format_bit_mask=0xF, cc_h263_base_caps_mask=0x204,
     cc_h263_options_mask=0x200000, ccH263Options->bit_mask=0x10000000
001602: Oct 4 21:02:19.148: //280/736483928021/H221:():
     h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps
```

La passerelle H.320 envoie TCS ACK à Polycom

```
001603: Oct 4 21:02:19.148: H245 MSC OUTGOING PDU ::=

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

001604: Oct 4 21:02:19.148: H245 MSC OUTGOING ENCODE BUFFER::= 218001
001605: Oct 4 21:02:19.148:
001606: Oct 4 21:02:19.148: h323chan_chn_process_read_socket
001607: Oct 4 21:02:19.148: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001608: Oct 4 21:02:19.148: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001609: Oct 4 21:02:19.148: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 7
001610: Oct 4 21:02:19.148: H245 MSC INCOMING ENCODE BUFFER::=
     01003280741139
001611: Oct 4 21:02:19.148:
```

La passerelle H.320 reçoit une requête MSD de Polycom

```
001612: Oct 4 21:02:19.148: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :
{
terminalType 50
statusDeterminationNumber 7606585
}

001613: Oct 4 21:02:19.152: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
    bytesLeftToDecode = 0
001614: Oct 4 21:02:19.152: h245_decode_one_pdu: Read Pkt body:
    more_pdus:0 rc:0 asn_rc:0
```

La passerelle H.320 envoie MSD ACK à Polycom

```
001615: Oct 4 21:02:19.152: H245 MSC OUTGOING PDU ::=

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

001616: Oct 4 21:02:19.152: H245 MSC OUTGOING ENCODE BUFFER::= 20A0
001617: Oct 4 21:02:19.152:
001618: Oct 4 21:02:19.152: h323chan_chn_process_read_socket
001619: Oct 4 21:02:19.152: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
001620: Oct 4 21:02:19.152: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

001621: Oct 4 21:02:19.152: h245_decode_one_pdu: more_pdus = 0,
    bytesLeftToDecode = 3
001622: Oct 4 21:02:19.152: H245 MSC INCOMING ENCODE BUFFER::= 218001
001623: Oct 4 21:02:19.152:
```

La passerelle H.320 reçoit un ACK TCS de Polycom

```
001624: Oct 4 21:02:19.152: H245 MSC INCOMING PDU ::=

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

001625: Oct 4 21:02:19.152: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
    bytesLeftToDecode = 0
001626: Oct 4 21:02:19.152: h245_decode_one_pdu: Read Pkt body:
    more_pdus:0 rc:0 asn_rc:0
001627: Oct 4 21:02:19.152: //281/736483928021/CCAPI/cc_api_caps_ack:
Destination Interface=0x65A8CAD4, Destination Call Id=280, Source Call Id=281,
Caps(Codec=gsmefr(0x0), Fax Rate=Invalid(0x0), Vad=Invalid(0x0),
Modem=OFF(0x0), Codec Bytes=0, Signal Type=0, Seq Num Start=0)
001628: Oct 4 21:02:19.152: h323chan_chn_process_read_socket
001629: Oct 4 21:02:19.152: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
001630: Oct 4 21:02:19.152: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4
```

```
001631: Oct 4 21:02:19.152: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 2
001632: Oct 4 21:02:19.152: H245 MSC INCOMING ENCODE BUFFER::= 2080
001633: Oct 4 21:02:19.152:
001634: Oct 4 21:02:19.152: H245 MSC INCOMING PDU ::=
```

La passerelle H.320 reçoit l'ACK MSD de Polycom

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

001635: Oct 4 21:02:19.152: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
     bytesLeftToDecode = 0
001636: Oct 4 21:02:19.152: h245_decode_one_pdu: Read Pkt body:
     more_pdus:0 rc:0 asn_rc:0
001637: Oct 4 21:02:19.172: h323chan_chn_process_read_socket
001638: Oct 4 21:02:19.172: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001639: Oct 4 21:02:19.172: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001640: Oct 4 21:02:19.172: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 19
001641: Oct 4 21:02:19.172: H245 MSC INCOMING ENCODE BUFFER::=
     030000010C6013800A040001000E320534C02B
001642: Oct 4 21:02:19.172:
```

La passerelle H.320 reçoit un OLC audio (G.711) de Polycom

L'adresse IP RTCP de Polycom : port pour le flux audio est 14.50.5.52:49195.

```
001643: Oct 4 21:02:19.172: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 2
forwardLogicalChannelParameters
{
dataType audioData : g711Ulaw64k : 20
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 1
mediaControlChannel unicastAddress : iPAddress :
{
network '0E320534'H
tsapIdentifier 49195
}
}
}
}

001644: Oct 4 21:02:19.172: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
     bytesLeftToDecode = 0
001645: Oct 4 21:02:19.172: h245_decode_one_pdu: Read Pkt body:
      more_pdus:0 rc:0 asn_rc:0
001646: Oct 4 21:02:19.172: //281/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=281
```

```
001647: Oct 4 21:02:19.172: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001648: Oct 4 21:02:19.176: //280/736483928021/H221:():
    dsmp_h221_set_outgoing_requested_audio_mode:
Outgoing Audio Mode=G.711 u-law 56k
```

La passerelle H.320 définit le mode audio sortant sur la branche POTS

```
001649: Oct 4 21:02:19.176: //280/736483928021/H221:():
    h221_lock_audio_mode:
Incoming Audio Mode=OFF, Outgoing Audio Mode=G.711 u-law 56k
001650: Oct 4 21:02:19.176: //280/736483928021/H221:():
    h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps
001651: Oct 4 21:02:19.176: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Direction=Outgoing, Type=Audio
001652: Oct 4 21:02:19.176: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001653: Oct 4 21:02:19.176: //280/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=280
001654: Oct 4 21:02:19.176: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```

La passerelle H.320 envoie un ACK audio OLC à Polycom

Le port RTP et RTCP de la passerelle H.320 pour le flux audio est 14.1.16.220:18718 et 14.1.16.220:18719.

```
001655: Oct 4 21:02:19.176: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
forwardLogicalChannelNumber 2
forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
{
mediaChannel unicastAddress : iPAddress :
{
network '0E0110DC'H
tsapIdentifier 18718
}
mediaControlChannel unicastAddress : iPAddress :
{
network '0E0110DC'H
tsapIdentifier 18719
}
flowControlToZero FALSE
}
}

001656: Oct 4 21:02:19.176: H245 MSC OUTGOING ENCODE BUFFER::=
    22C000010480134C000E0110DC491E000E0110DC491F03000100
001657: Oct 4 21:02:19.176:
001658: Oct 4 21:02:19.204: h323chan_chn_process_read_socket
001659: Oct 4 21:02:19.204: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
001660: Oct 4 21:02:19.204: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

001661: Oct 4 21:02:19.204: h245_decode_one_pdu: more_pdus = 0,
```

```
    bytesLeftToDecode = 63
001662: Oct 4 21:02:19.204: H245 MSC INCOMING ENCODE BUFFER::=
    0300000208FE0000050BC100705001001B080000104000AF007700AF007741204000
57003B0057003B402040801104600200E320534C02D04000448097CC0
001663: Oct 4 21:02:19.204:
```

La passerelle H.320 reçoit un OLC vidéo (H.263) de Polycom

L'adresse IP RTCP de Polycom : port pour le flux vidéo est 14.50.5.52:49197.

Le type de charge utile RTP pour le flux vidéo H.263 de Polycom à la passerelle H.320 est défini sur 96

```
001664: Oct 4 21:02:19.204: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 3
forwardLogicalChannelParameters
{
dataType videoData : h263VideoCapability :
{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3010
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction FALSE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
```

```
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
}
}
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 2
mediaControlChannel unicastAddress : iPAddress :
{
network '0E320534'H
tsapIdentifier 49197
}
dynamicRTPPayloadType 96
mediaPacketization rtpPayloadType :
{
payloadDescriptor rfc-number : 2429
payloadType 96
}
}
}
}

001665: Oct 4 21:02:19.216: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
      bytesLeftToDecode = 0
001666: Oct 4 21:02:19.216: h245_decode_one_pdu: Read Pkt body:
      more_pdus:0 rc:0 asn_rc:0
001667: Oct 4 21:02:19.216: //281/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=281
001668: Oct 4 21:02:19.216: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```

La passerelle H.320 définit le mode vidéo sortant sur la branche POTS

```
001669: Oct 4 21:02:19.216: //280/736483928021/H221:():
      dsmp_h221_set_outgoing_requested_video_mode:
```

```
Outgoing Video Mode=H.263
001670: Oct 4 21:02:19.216: //280/736483928021/H221:():
     h221_lock_video_mode:
Incoming Video Mode=OFF, Outgoing Video Mode=H.263
001671: Oct 4 21:02:19.216: //280/736483928021/H221:():
     h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps
001672: Oct 4 21:02:19.216: //280/736483928021/H221:():
     dsmp_h221_populate_config_rtp_params:
Direction=Outgoing, Type=Video
001673: Oct 4 21:02:19.216: //280/736483928021/H221:():
     dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001674: Oct 4 21:02:19.216: //280/736483928021/H221:():
     dsmp_h221_populate_config_rtp_params:
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x60
001675: Oct 4 21:02:19.216: //280/736483928021/H221:():
     dsmp_h221_calculate_max_video_bandwidth_internal:
Calculation Type=Flow Control, B-Channel(s)=6, Bandwidth=3017
001676: Oct 4 21:02:19.216: //280/736483928021/H221:():
     dsmp_h221_populate_flow_control_internal:
Video Flow Control, Value=3017, Bandwidth Calculated From H.320 Legs=3017
001677: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=280
001678: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001679: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=280
001680: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```
[La passerelle H.320 envoie un ACK OLC vidéo à Polycom](#)

Le port RTP et RTCP du modem routeur H.320 pour le flux vidéo est 14.1.16.220:18078 et 14.1.16.220:18079.

```
001681: Oct 4 21:02:19.220: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
forwardLogicalChannelNumber 3
forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
{
mediaChannel unicastAddress : iPAddress :
{
network '0E0110DC'H
tsapIdentifier 18078
}
mediaControlChannel unicastAddress : iPAddress :
{
network '0E0110DC'H
tsapIdentifier 18079
}
flowControlToZero FALSE
}
}

001682: Oct 4 21:02:19.220: H245 MSC OUTGOING ENCODE BUFFER::=
     22C000020480134C000E0110DC469E000E0110DC469F03000100
001683: Oct 4 21:02:19.220:
001684: Oct 4 21:02:19.220: H245 MSC OUTGOING PDU ::=
```

```
value MultimediaSystemControlMessage ::= command : flowControlCommand :
{
scope logicalChannelNumber : 3
restriction maximumBitRate : 3017
}

001685: Oct 4 21:02:19.224: H245 MSC OUTGOING ENCODE BUFFER::= 48000002200BC9
001686: Oct 4 21:02:19.224:
001687: Oct 4 21:02:19.224: h323chan_chn_process_read_socket
001688: Oct 4 21:02:19.224: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001689: Oct 4 21:02:19.224: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001690: Oct 4 21:02:19.224: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 5
001691: Oct 4 21:02:19.224: H245 MSC INCOMING ENCODE BUFFER::= 6900000100
001692: Oct 4 21:02:19.224:
001693: Oct 4 21:02:19.224: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= indication : miscellaneousIndication :
{
logicalChannelNumber 2
type logicalChannelActive : NULL
}

001694: Oct 4 21:02:19.224: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
     bytesLeftToDecode = 0
001695: Oct 4 21:02:19.224: h245_decode_one_pdu: Read Pkt body:
     more_pdus:0 rc:0 asn_rc:0
001696: Oct 4 21:02:19.224: //281/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=281
001697: Oct 4 21:02:19.224: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001698: Oct 4 21:02:19.224:
```

La passerelle H.320 envoie un signal audio indiquant le contrôle actif et le signal d'information au point d'extrémité vidéo distant dans le RTPC

La passerelle H.320 envoie un signal audio indiquant un contrôle actif et un signal d'information au point d'extrémité vidéo distant dans le RTPC afin d'activer le canal audio.

```
//280/736483928021/H221:():h221_outgoing_message_entry:
Outgoing BAS Command=Send Miscellaneous
001699: Oct 4 21:02:19.224: //280/736483928021/H221:():
     h221_outgoing_send_misc_cmd_indication:
Send Miscellaneous Command=Audio Channel Active
001700: Oct 4 21:02:19.248: h323chan_chn_process_read_socket
001701: Oct 4 21:02:19.248: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001702: Oct 4 21:02:19.248: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001703: Oct 4 21:02:19.248: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 9
001704: Oct 4 21:02:19.248: H245 MSC INCOMING ENCODE BUFFER::=
     70E006000002200BC2
001705: Oct 4 21:02:19.248:
001706: Oct 4 21:02:19.248: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= indication : flowControlIndication :
```

```
{
scope logicalChannelNumber : 3
restriction maximumBitRate : 3010
}

001707: Oct 4 21:02:19.248: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
    bytesLeftToDecode = 0
001708: Oct 4 21:02:19.248: h245_decode_one_pdu: Read Pkt body:
    ore_pdus:0 rc:0 asn_rc:0
001709: Oct 4 21:02:19.532: //280/736483928021/H221:():
    dsmp_h221_update_dsp_timestamp:
BAS Message Timestamp=2500(ms), Last Squelch Timestamp=0(ms)
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE
001710: Oct 4 21:02:19.536:
```

!--- Some debug outputs have been removed.

Le point de terminaison vidéo du RTPC définit le débit de transfert et le mode audio

```
001815: Oct 4 21:02:24.036: //280/736483928021/H221:():
    h221_incoming_transfer_rate_mode:
Incoming B-channel Mode=6
001816: Oct 4 21:02:24.036: //280/736483928021/H221:():
    h221_incoming_audio_mode:
Incoming Audio Mode=G.711 u-law 56k
001817: Oct 4 21:02:24.036: //280/736483928021/H221:():
    h221_incoming_unsupported_other_mode:
BAS=0x60
001818: Oct 4 21:02:24.036: //280/736483928021/H221:():
    h221_incoming_unsupported_other_mode:
BAS=0x70
001819: Oct 4 21:02:24.036: //280/736483928021/H221:():
    h221_incoming_message_entry:
Return Code=H221 Partial Message
001820: Oct 4 21:02:24.036: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001821: Oct 4 21:02:24.036: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001822: Oct 4 21:02:24.036: //280/736483928021/H221:():
    h221_lock_audio_mode:
Incoming Audio Mode=G.711 u-law 56k, Outgoing Audio Mode=G.711 u-law 56k
001823: Oct 4 21:02:24.036: //280/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=280
001824: Oct 4 21:02:24.036: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```

La passerelle H.320 envoie un OLC audio (G.711) à Polycom

Le port RTCP de la passerelle H.320 pour le flux audio est 14.1.16.220:18719.

```
001825: Oct 4 21:02:24.036: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 1
forwardLogicalChannelParameters
{
dataType audioData : g711Ulaw64k : 20
multiplexParameters h2250LogicalChannelParameters :
```

```
{
sessionID 1
mediaControlChannel unicastAddress : iPAddress :
{
network '0E0110DC'H
tsapIdentifier 18719
}
silenceSuppression FALSE
}
}
}

001826: Oct 4 21:02:24.040: H245 MSC OUTGOING ENCODE BUFFER::=
     030000000C6013800B050001000E0110DC491F00
001827: Oct 4 21:02:24.040:
001828: Oct 4 21:02:24.052: h323chan_chn_process_read_socket
001829: Oct 4 21:02:24.052: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001830: Oct 4 21:02:24.052: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001831: Oct 4 21:02:24.052: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 23
001832: Oct 4 21:02:24.052: H245 MSC INCOMING ENCODE BUFFER::=
     22C000000480101C00000E320534C02A000E320534C02B
001833: Oct 4 21:02:24.052:
```

La passerelle H.320 reçoit un ACK OLC audio de Polycom

Adresse IP RTP et RTCP de Polycom : le port du flux audio est 14.50.5.52:49194 et 14.50.5.52:49195.

```
001834: Oct 4 21:02:24.052: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
forwardLogicalChannelNumber 1
forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
{
sessionID 1
mediaChannel unicastAddress : iPAddress :
{
network '0E320534'H
tsapIdentifier 49194
}
mediaControlChannel unicastAddress : iPAddress :
{
network '0E320534'H
tsapIdentifier 49195
}
}
}

001835: Oct 4 21:02:24.052: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
     bytesLeftToDecode = 0
001836: Oct 4 21:02:24.052: h245_decode_one_pdu: Read Pkt body:
     more_pdus:0 rc:0 asn_rc:0
001837: Oct 4 21:02:24.056: //281/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=281
001838: Oct 4 21:02:24.056: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001839: Oct 4 21:02:24.056: RAS OUTGOING PDU ::=
```

```
value RasMessage ::= bandwidthRequest :
{
requestSeqNum 2051
endpointIdentifier {"65766C6C00000001"}
conferenceID '73648392532211DB8021000D28D3D7C0'H
callReferenceValue 28
bandWidth 7300
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
answeredCall FALSE
}

001840: Oct 4 21:02:24.056: RAS OUTGOING ENCODE BUFFER::=
     320008021E00360035003700360036004300360043003000300030003000300003
     0003000317364839253211DB8021000D28D3D7C0001C401C8415080011007365
     1FB9532211DB817D90162806D3F10100
001841: Oct 4 21:02:24.056: h323chan_dgram_send:Sent UDP msg.
     Bytes sent: 81 to 14.50.3.101:1719 fd=2

001842: Oct 4 21:02:24.056: RASLib::GW_RASSendBRQ:
     BRQ (seq# 2051) sent to 14.50.3.101
001843: Oct 4 21:02:24.056: //280/736483928021/H221:():
     dsmp_h221_populate_config_rtp_params:
Direction=Incoming, Type=Audio
001844: Oct 4 21:02:24.056: //280/736483928021/H221:():
     dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001845: Oct 4 21:02:24.060: h323chan_chn_process_read_socket
001846: Oct 4 21:02:24.060: h323chan_chn_process_read_socket:
     fd=2 of type CONNECTED has data
001847: Oct 4 21:02:24.060: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=2

001848: Oct 4 21:02:24.060: h323chan_dgram_recvdata:rcvd from
     [14.50.3.101:1719] on fd=2

001849: Oct 4 21:02:24.060: RAS INCOMING ENCODE BUFFER::= 340802401C84
001850: Oct 4 21:02:24.060:
001851: Oct 4 21:02:24.060: RAS INCOMING PDU ::=

value RasMessage ::= bandwidthConfirm :
{
requestSeqNum 2051
bandWidth 7300
}

 !--- Some debug outputs are removed
```

Le point de terminaison vidéo du RTPC définit le mode vidéo

```
001870: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_incoming_video_mode:
Incoming Video Mode=H.263
001871: Oct 4 21:02:25.036: //280/736483928021/H221:():
     dsmp_h221_video_mode:
Video Mode=H.263
001872: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_incoming_unsupported_other_mode:
BAS=0x60
```

```
001873: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_incoming_unsupported_other_mode:
BAS=0x70
001874: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_incoming_handle_table_4_H230:
Handling H.230 BAS=0x3
```

La passerelle H.320 reçoit un signal audio indiquant le contrôle actif et le signal d'information du point d'extrémité vidéo distant dans le RTPC

La passerelle H.320 reçoit un signal audio indiquant le contrôle actif et le signal d'information du point d'extrémité vidéo distant dans le RTPC afin d'activer le canal audio.

```
001875: Oct 4 21:02:25.036: //280/736483928021/H221:():
     dsmp_h221_misc_command:
Received Miscellaneous Command=Audio Channel Active
001876: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_incoming_message_entry:
Return Code=H221 Partial Message
001877: Oct 4 21:02:25.036: //280/736483928021/H221:():
     dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001878: Oct 4 21:02:25.036: //280/736483928021/H221:():
     dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x1
001879: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_lock_video_mode:
Incoming Video Mode=H.263, Outgoing Video Mode=H.263
001880: Oct 4 21:02:25.036: //280/736483928021/H221:():
     h221_outgoing_message_entry:
Outgoing BAS Command=Send Mode
001881: Oct 4 21:02:25.036: //280/736483928021/H221:():
     dsmp_h221_calculate_max_video_bandwidth_internal:
Calculation Type=Max Capability, B-Channel(s)=6, Bandwidth=3017
001882: Oct 4 21:02:25.036:
     //280/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=280
001883: Oct 4 21:02:25.036:
     //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001884: Oct 4 21:02:25.036:
     //280/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=280
001885: Oct 4 21:02:25.040:
     //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```

La passerelle H.320 envoie un OLC vidéo (H.263) à Polycom

Adresse IP RTCP de la passerelle H.320 : le port du flux vidéo est 14.1.16.220:18079.

Le type de charge utile RTP pour le flux vidéo H.263 de la passerelle H.320 vers Polycom est défini sur 110

```
001886: Oct 4 21:02:25.040: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 2
```

```
forwardLogicalChannelParameters
{
dataType videoData : h263VideoCapability :
{
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3017
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{

{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
```

```
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
}
}
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 2
mediaControlChannel unicastAddress : iPAddress :
{
network '0E0110DC'H
tsapIdentifier 18079
}
dynamicRTPPayloadType 110
mediaPacketization rtpPayloadType :
{
payloadDescriptor rfc-number : 2429
payloadType 110
}
}
}
}

001887: Oct 4 21:02:25.048: H245 MSC OUTGOING ENCODE BUFFER::=
     0300000108EE0000A00BC820705001001B080000104000AF007700AF007
     74120400057003B0057003B4020408011046002000E0110DC469F740004
     48097CDC
001888: Oct 4 21:02:25.048:
001889: Oct 4 21:02:25.048: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= indication : miscellaneousIndication :
{
logicalChannelNumber 1
type logicalChannelActive : NULL
}

001890: Oct 4 21:02:25.048: H245 MSC OUTGOING ENCODE BUFFER::= 6900000000
001891: Oct 4 21:02:25.052:
001892: Oct 4 21:02:25.068: h323chan_chn_process_read_socket
001893: Oct 4 21:02:25.068: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001894: Oct 4 21:02:25.068: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001895: Oct 4 21:02:25.068: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 23
001896: Oct 4 21:02:25.068: H245 MSC INCOMING ENCODE BUFFER::=
     22C000010480101C02000E320534C02C000E320534C02D
001897: Oct 4 21:02:25.068:
```

La passerelle H.320 reçoit un ACK OLC vidéo de Polycom

Adresse IP RTP et RTCP de Polycom : le port du flux vidéo est 14.50.5.52:49196 et 14.50.5.52:49197.

```
001898: Oct 4 21:02:25.068: H245 MSC INCOMING PDU ::=
```

```
value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
{
forwardLogicalChannelNumber 2
forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
{
sessionID 2
mediaChannel unicastAddress : iPAddress :
{
network '0E320534'H
tsapIdentifier 49196
}
mediaControlChannel unicastAddress : iPAddress :
{
network '0E320534'H
tsapIdentifier 49197
}
}
}
```

```
001899: Oct 4 21:02:25.072: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
    bytesLeftToDecode = 0
001900: Oct 4 21:02:25.072: h245_decode_one_pdu: Read Pkt body:
    more_pdus:0 rc:0 asn_rc:0
001901: Oct 4 21:02:25.072: //281/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=281
001902: Oct 4 21:02:25.072: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001903: Oct 4 21:02:25.072: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Direction=Incoming, Type=Video
001904: Oct 4 21:02:25.072: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001905: Oct 4 21:02:25.072: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x6E
001906: Oct 4 21:02:25.072: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Direction=Outgoing, Type=Video
001907: Oct 4 21:02:25.072: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001908: Oct 4 21:02:25.072: //280/736483928021/H221:():
    dsmp_h221_populate_config_rtp_params:
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x60
001909: Oct 4 21:02:25.072: h323chan_chn_process_read_socket
001910: Oct 4 21:02:25.072: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
001911: Oct 4 21:02:25.076: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

001912: Oct 4 21:02:25.076: h245_decode_one_pdu: more_pdus = 0,
    bytesLeftToDecode = 7
001913: Oct 4 21:02:25.076: H245 MSC INCOMING ENCODE BUFFER::= 48000001200C80
001914: Oct 4 21:02:25.076:
001915: Oct 4 21:02:25.076: H245 MSC INCOMING PDU ::=
```

```
value MultimediaSystemControlMessage ::= command : flowControlCommand :
{
scope logicalChannelNumber : 2
restriction maximumBitRate : 3200
}
```

```
001916: Oct 4 21:02:25.076: h245_decode_one_pdu:
```

```
     H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0
001917: Oct 4 21:02:25.076: h245_decode_one_pdu:
     Read Pkt body: more_pdus:0 rc:0 asn_rc:0
001918: Oct 4 21:02:25.076: //281/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=281
001919: Oct 4 21:02:25.076: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001920: Oct 4 21:02:25.076: h323chan_chn_process_read_socket
001921: Oct 4 21:02:25.076: h323chan_chn_process_read_socket:
     fd=4 of type CONNECTED has data
001922: Oct 4 21:02:25.076: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=4

001923: Oct 4 21:02:25.076: h245_decode_one_pdu: more_pdus = 0,
     bytesLeftToDecode = 4
001924: Oct 4 21:02:25.076: H245 MSC INCOMING ENCODE BUFFER::= 4C000128
001925: Oct 4 21:02:25.076:
```

La passerelle H.320 reçoit une demande d'image VFU (Video Fast Update) de Polycom

Dans cette sortie, la passerelle H.320 reçoit une demande d'image VFU de la part de Polycom, ce qui indique qu'elle est prête à recevoir un flux vidéo.

```
001926: Oct 4 21:02:25.076: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= command : miscellaneousCommand :
{
logicalChannelNumber 2
type videoFastUpdatePicture : NULL
}

001927: Oct 4 21:02:25.076: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
     bytesLeftToDecode = 0
001928: Oct 4 21:02:25.076: h245_decode_one_pdu: Read Pkt body:
     more_pdus:0 rc:0 asn_rc:0
001929: Oct 4 21:02:25.076: //281/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=281
001930: Oct 4 21:02:25.076: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001931: Oct 4 21:02:25.076: //280/736483928021/H221:():
     h221_outgoing_message_entry:
Outgoing BAS Command=Send Miscellaneous
001932: Oct 4 21:02:25.076: //280/736483928021/H221:():
     h221_outgoing_send_misc_cmd_indication:
Send Miscellaneous Command=Flow Control
001933: Oct 4 21:02:25.076: //280/736483928021/H221:():
     h221_outgoing_send_misc_cmd_indication:
Sending Non-Standard Flow-Control To Cisco Peer, Value=3200
001934: Oct 4 21:02:25.076: //280/736483928021/H221:():
     h221_outgoing_message_entry:
Outgoing BAS Command=Send Miscellaneous
001935: Oct 4 21:02:25.076:
```

La passerelle H.320 envoie un signal de contrôle d'image et d'information de mise à jour rapide vidéo au point d'extrémité vidéo du RTPC

```
//280/736483928021/H221:():h221_outgoing_send_misc_cmd_indication:
Send Miscellaneous Command=Video Fast Update Picture

!--- Some debug outputs have been removed. 001973: Oct 4 21:02:26.168:
```

```
h323chan_chn_process_read_socket: h323chan accepted/connected fd=4 001974: Oct 4 21:02:26.168:
h245_decode_one_pdu: more_pdus = 0, bytesLeftToDecode = 7 001975: Oct 4 21:02:26.168: H245 MSC
INCOMING ENCODE BUFFER::= 48000001200C80 001976: Oct 4 21:02:26.168:
```

La passerelle H.320 reçoit la commande de contrôle de flux de Polycom

```
001977: Oct 4 21:02:26.168: H245 MSC INCOMING PDU ::=

value MultimediaSystemControlMessage ::= command : flowControlCommand :
{
scope logicalChannelNumber : 2
restriction maximumBitRate : 3200
}

001978: Oct 4 21:02:26.168: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
    bytesLeftToDecode = 0
001979: Oct 4 21:02:26.168: h245_decode_one_pdu: Read Pkt body:
     more_pdus:0 rc:0 asn_rc:0
001980: Oct 4 21:02:26.168: //281/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=281
001981: Oct 4 21:02:26.168: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001982: Oct 4 21:02:26.168: //280/736483928021/H221:():
    h221_outgoing_message_entry:
Outgoing BAS Command=Send Miscellaneous
001983: Oct 4 21:02:26.168:
```

La passerelle H.320 envoie la commande de contrôle de flux au point de terminaison vidéo dans le RTPC

```
//280/736483928021/H221:():h221_outgoing_send_misc_cmd_indication:
Send Miscellaneous Command=Flow Control
001984: Oct 4 21:02:26.168: //280/736483928021/H221:():
    h221_outgoing_send_misc_cmd_indication:
Sending Non-Standard Flow-Control To Cisco Peer, Value=3200

!--- Some debug outputs have been removed
```

La passerelle H.320 envoie la commande de contrôle de flux à Polycom

La passerelle H.320 reçoit la commande Flow Control du point d'extrémité vidéo du RTPC

```
002005: Oct 4 21:02:26.536: //280/736483928021/H221:():
    h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Flow Control, Value=3200
002006: Oct 4 21:02:26.536: //280/736483928021/H221:():dsmp_h221_misc_command:
Received Miscellaneous Command=Flow Control
002007: Oct 4 21:02:26.536: //280/736483928021/H221:():
    dsmp_h221_calculate_max_video_bandwidth_internal:
Calculation Type=Flow Control, B-Channel(s)=6, Bandwidth=3017
002008: Oct 4 21:02:26.536: //280/736483928021/H221:():
    dsmp_h221_populate_flow_control_internal:
Video Flow Control, Value=3017, Bandwidth Calculated From H.320 Legs=3017
Flow Control Bandwidth Received From H.320 Peer=3200
002009: Oct 4 21:02:26.536: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x1
002010: Oct 4 21:02:26.536: //280/736483928021/H221:():
    dsmp_h221_check_for_bas_squelch:
```

```
H221 Squelch Map=0x1
002011: Oct 4 21:02:26.536: //280/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=280
002012: Oct 4 21:02:26.536: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```

La passerelle H.320 envoie la commande de contrôle de flux à Polycom

```
002013: Oct 4 21:02:26.536: H245 MSC OUTGOING PDU ::=

value MultimediaSystemControlMessage ::= command : flowControlCommand :
{
scope logicalChannelNumber : 3
restriction maximumBitRate : 3017
}

002014: Oct 4 21:02:26.536: H245 MSC OUTGOING ENCODE BUFFER::= 48000002200BC9
```

!--- Some debug outputs have been removed

Le point d'extrémité vidéo du RTPC déconnecte l'appel vidéo

```
002136: Oct 4 21:02:55.578: RCF (seq# 2052) rcvd
002137: Oct 4 21:03:14.223: ISDN Se2/1:23 Q931:
     RX <- DISCONNECT pd = 8 callref = 0x00A0
Cause i = 0x829F - Normal, unspecified
002138: Oct 4 21:03:14.227: %ISDN-6-DISCONNECT:
     Interface Serial2/1:1 disconnected from 9193926000 ,
     call lasted 57 seconds
002139: Oct 4 21:03:14.227: ISDN Se2/1:23 Q931:
     RX <- DISCONNECT pd = 8 callref = 0x00A1
Cause i = 0x829F - Normal, unspecified
002140: Oct 4 21:03:14.227: ISDN Se2/1:23 Q931:
     TX -> RELEASE pd = 8 callref = 0x80A0
002141: Oct 4 21:03:14.227: ISDN Se2/1:23 Q931:
     RX <- DISCONNECT pd = 8 callref = 0x00A2
Cause i = 0x829F - Normal, unspecified
002142: Oct 4 21:03:14.231: %ISDN-6-DISCONNECT:
     Interface Serial2/1:2 disconnected from 9193926000 ,
     call lasted 56 seconds
002143: Oct 4 21:03:14.231: %ISDN-6-DISCONNECT:
     Interface Serial2/1:3 disconnected from 9193926000 ,
     call lasted 56 seconds
002144: Oct 4 21:03:14.231: ISDN Se2/1:23 Q931:
     RX <- DISCONNECT pd = 8 callref = 0x00A3
Cause i = 0x829F - Normal, unspecified
002145: Oct 4 21:03:14.231: ISDN Se2/1:23 Q931:
     RX <- DISCONNECT pd = 8 callref = 0x00A4
Cause i = 0x829F - Normal, unspecified
002146: Oct 4 21:03:14.235: ISDN Se2/1:23 Q931:
     TX -> RELEASE pd = 8 callref = 0x80A1
002147: Oct 4 21:03:14.235: ISDN Se2/1:23 Q931:
     TX -> RELEASE pd = 8 callref = 0x80A2
002148: Oct 4 21:03:14.235: ISDN Se2/1:23 Q931:
     RX <- DISCONNECT pd = 8 callref = 0x009F
Cause i = 0x829F - Normal, unspecified
002149: Oct 4 21:03:14.239: %ISDN-6-DISCONNECT:
     Interface Serial2/1:4 disconnected from 9193926000 ,
     call lasted 56 seconds
002150: Oct 4 21:03:14.239: %ISDN-6-DISCONNECT:
     Interface Serial2/1:5 disconnected from 9193926000 ,
     call lasted 55 seconds
```

```
002151: Oct 4 21:03:14.239: %ISDN-6-DISCONNECT:
     Interface Serial2/1:0 disconnected from 9193926000 ,
     call lasted 57 seconds
002152: Oct 4 21:03:14.239: ISDN Se2/1:23 Q931:
     RX <- RELEASE_COMP pd = 8 callref = 0x00A0
002153: Oct 4 21:03:14.243: ISDN Se2/1:23 Q931:
     TX -> RELEASE pd = 8 callref = 0x80A3
002154: Oct 4 21:03:14.243: ISDN Se2/1:23 Q931:
     TX -> RELEASE pd = 8 callref = 0x80A4
002155: Oct 4 21:03:14.243: ISDN Se2/1:23 Q931:
     TX -> RELEASE pd = 8 callref = 0x809F
002156: Oct 4 21:03:14.243: ISDN Se2/1:23 Q931:
     RX <- RELEASE_COMP pd = 8 callref = 0x00A1
002157: Oct 4 21:03:14.243:
     //280/736483928021/CCAPI/cc_api_call_disconnected:
Cause Value=31, Interface=0x65A8CAD4, Call Id=280
002158: Oct 4 21:03:14.243:
     //280/736483928021/CCAPI/cc_api_call_disconnected:
Call Entry(Responsed=TRUE, Cause Value=31, Retry Count=0)
002159: Oct 4 21:03:14.243: ISDN Se2/1:23 Q931:
     RX <- RELEASE_COMP pd = 8 callref = 0x00A2
002160: Oct 4 21:03:14.247: //280/736483928021/CCAPI/ccConferenceDestroy:
Conference Id=0x12, Tag=0x0
002161: Oct 4 21:03:14.247: //280/xxxxxxxxxxxx/CCAPI/cc_api_bridge_drop_done:
Conference Id=0x12, Source Interface=0x65A8CAD4, Source Call Id=280,
Destination Call Id=281, Disposition=0x0, Tag=0x0
002162: Oct 4 21:03:14.247: //281/xxxxxxxxxxxx/CCAPI/cc_api_bridge_drop_done:
Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281,
Destination Call Id=280, Disposition=0x0, Tag=0x0
002163: Oct 4 21:03:14.247: //280/736483928021/CCAPI/cc_generic_bridge_done:
Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281,
Destination Call Id=280, Disposition=0x0, Tag=0x0
002164: Oct 4 21:03:14.247: ISDN Se2/1:23 Q931:
     RX <- RELEASE_COMP pd = 8 callref = 0x00A3
002165: Oct 4 21:03:14.255: ISDN Se2/1:23 Q931:
     RX <- RELEASE_COMP pd = 8 callref = 0x00A4
002166: Oct 4 21:03:14.255: ISDN Se2/1:23 Q931:
     RX <- RELEASE_COMP pd = 8 callref = 0x009F
002167: Oct 4 21:03:14.255: //280/736483928021/CCAPI/ccCallDisconnect:
Cause Value=31, Tag=0x0, Call Entry(Previous Disconnect Cause=0,
     Disconnect Cause=31)
002168: Oct 4 21:03:14.255: //280/736483928021/CCAPI/ccCallDisconnect:
Cause Value=31, Call Entry(Responsed=TRUE, Cause Value=31)
002169: Oct 4 21:03:14.255: //280/736483928021/CCAPI/cc_api_get_transfer_info:
Transfer Number Is Null
002170: Oct 4 21:03:14.255: //281/736483928021/CCAPI/ccCallDisconnect:
Cause Value=31, Tag=0x0, Call Entry(Previous Disconnect Cause=0,
     Disconnect Cause=0)
002171: Oct 4 21:03:14.255: //281/736483928021/CCAPI/ccCallDisconnect:
Cause Value=31, Call Entry(Responsed=TRUE, Cause Value=31)
002172: Oct 4 21:03:14.259: //281/736483928021/CCAPI/cc_api_get_transfer_info:
Transfer Number Is Null
002173: Oct 4 21:03:14.259:
     //282/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=282,
Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0)
002174: Oct 4 21:03:14.259:
     //282/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
002175: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002176: Oct 4 21:03:14.259: :cc_free_feature_vsa freeing 65F09B30
002177: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:
```

```
002178: Oct 4 21:03:14.259: vsacount in free is 6
002179: Oct 4 21:03:14.259:
     //283/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=283,
Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0)
002180: Oct 4 21:03:14.259:
     //283/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
002181: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002182: Oct 4 21:03:14.259: :cc_free_feature_vsa freeing 65F09980
002183: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002184: Oct 4 21:03:14.259: vsacount in free is 5
002185: Oct 4 21:03:14.263:
     //284/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=284,
Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0)
002186: Oct 4 21:03:14.263:
     //284/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
002187: Oct 4 21:03:14.263: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002188: Oct 4 21:03:14.263: :cc_free_feature_vsa freeing 65F098A8
002189: Oct 4 21:03:14.263: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002190: Oct 4 21:03:14.263: vsacount in free is 4
002191: Oct 4 21:03:14.263:
     //285/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=285,
Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0)
002192: Oct 4 21:03:14.263:
     //285/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
002193: Oct 4 21:03:14.263: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002194: Oct 4 21:03:14.263: :cc_free_feature_vsa freeing 65F097D0
002195: Oct 4 21:03:14.263: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002196: Oct 4 21:03:14.263: vsacount in free is 3
002197: Oct 4 21:03:14.263: H225 NONSTD OUTGOING PDU ::=

value H323_UU_NonStdInfo ::=
{
version 2
protoParam qsigNonStdInfo :
{
iei 8
rawMesg '0802829F1C269E8100036774640000001B52454C...'H
}
}

002198: Oct 4 21:03:14.263: H225 NONSTD OUTGOING ENCODE BUFFER::=
     6001020001082C0802829F1C269E8100036774640000001B52454C2C0D0A50524
E2C6973646E6E2A2C2C4E492A2A2A2C0D0A0D0A
002199: Oct 4 21:03:14.263:
```

La passerelle H.320 efface l'appel sur la passerelle IP

```
002200: Oct 4 21:03:14.267: H225.0 OUTGOING PDU ::=

value H323_UserInformation ::=
```

```
{
h323-uu-pdu
{
h323-message-body releaseComplete :
{
protocolIdentifier { 0 0 8 2250 0 4 }
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
}
h245Tunneling FALSE
nonStandardControl
{

{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '6001020001082C0802829F1C269E810003677464...'H
}
}
tunnelledSignallingMessage
{
tunnelledProtocolID
{
id tunnelledProtocolAlternateID :
{
protocolType "gtd"
}
}
messageContent
{
'52454C2C0D0A50524E2C6973646E2A2C2C4E492A...'H
}
tunnellingRequired NULL
}
}
}


002201: Oct 4 21:03:14.271: H225.0 OUTGOING ENCODE BUFFER::=
      2580060008914A00041100110073651FB9532211DB817D90162806D3
      F110A801003A0140B5000012336001020001082C0802829F1C269E81
      00036774640000001B52454C2C0D0A50524E2C6973646E2A2C2C4E49
      2A2A2A2C0D0A0D0A224204677464011B52454C2C0D0A50524E2C6973
      646E2A2C2C4E492A2A2A2C0D0A0D0A
002202: Oct 4 21:03:14.271:
Q931 Message IE Decodes
Protocol Discriminator : 0x08
CRV Length : 2
CRV Value : 0x001C
Message Type : 0x5A: RELEASE_COMP
Cause: Length Of IE=2
Data 829F
User-User: Length Of IE=128
Data 052580060008914A00041100110073651FB9532211DB817D90162806D3
      F110A801003A0140B5000012336001020001082C0802829F1C269E8100
      036774640000001B52454C2C0D0A50524E2C6973646E2A2C2C4E492A2A
      2A2C0D0A0D0A224204677464011B52454C2C0D0A50524E2C6973646E2A
      2C2C4E492A2A2A2C0D0A0D0A
002203: Oct 4 21:03:14.271: H225 NONSTD OUTGOING PDU ::=
```

```
value RasnonStdUsageInformation ::=
{
rasMessageSpecificData drqRasnonStdUsageData :
{
callReleaseSource callingPartyInPstn : NULL
}
}


002204: Oct 4 21:03:14.271: H225 NONSTD OUTGOING ENCODE BUFFER::= 4800
002205: Oct 4 21:03:14.271:
002206: Oct 4 21:03:14.271: H225 NONSTD OUTGOING PDU ::=

value DRQnonStandardInfo ::=
{
gtd '52454C2C0D0A50524E2C6973646E2A2C2C4E492A...'H
}


002207: Oct 4 21:03:14.271: H225 NONSTD OUTGOING ENCODE BUFFER::=
     40001A52454C2C0D0A50524E2C6973646E2A2C2C4E492A2A2A2C0D0A0D0A
002208: Oct 4 21:03:14.271:
```

La passerelle H.320 envoie DRQ au contrôleur d'accès

```
002209: Oct 4 21:03:14.271: RAS OUTGOING PDU ::=

value RasMessage ::= disengageRequest :
{
requestSeqNum 2053
endpointIdentifier {"65766C6C00000001"}
conferenceID '73648392532211DB8021000D28D3D7C0'H
callReferenceValue 28
disengageReason normalDrop : NULL
nonStandardData
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '40001A52454C2C0D0A50524E2C6973646E2A2C2C...'H
}
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
answeredCall FALSE
usageInformation
{
nonStandardUsageFields
{

{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '4800'H
}
```

```
}
connectTime 1159995736
endTime 1159995793
}
terminationCause releaseCompleteCauseIE : '0802809F'H
}

002210: Oct 4 21:03:14.275: RAS OUTGOING ENCODE BUFFER::=
     3F08041E003600350037003600360043003600430030003000300030003000
     300030003173648392532211DB8021000D28D3D7C0001C28B50000121E4000
     1A52454C2C0D0A50524E2C6973646E2A2C2C4E492A2A2A2C0D0A0D0A1908C0
     110073651FB9532211DB817D90162806D3F1010014300140B5000012024800
     C045242157C045242219005440802809F
002211: Oct 4 21:03:14.279: h323chan_dgram_send:Sent UDP msg.
     Bytes sent: 140 to 14.50.3.101:1719 fd=2

002212: Oct 4 21:03:14.279: RASLib::GW_RASSendDRQ: DRQ (seq# 2053)
     sent to 14.50.3.101
002213: Oct 4 21:03:14.279: h323chan_chn_process_read_socket
002214: Oct 4 21:03:14.279: h323chan_chn_process_read_socket:
     fd=2 of type CONNECTED has data
002215: Oct 4 21:03:14.279: h323chan_chn_process_read_socket:
     h323chan accepted/connected fd=2

002216: Oct 4 21:03:14.279: h323chan_dgram_recvdata:rcvd
     from [14.50.3.101:1719] on fd=2

002217: Oct 4 21:03:14.279: RAS INCOMING ENCODE BUFFER::= 400804
002218: Oct 4 21:03:14.279:
002219: Oct 4 21:03:14.279: RAS INCOMING PDU ::=

value RasMessage ::= disengageConfirm :
{
requestSeqNum 2053
}

002220: Oct 4 21:03:14.283: DCF (seq# 2053) rcvd
002221: Oct 4 21:03:14.283:
     //286/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=286,
Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0)
002222: Oct 4 21:03:14.283:
     //286/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
002223: Oct 4 21:03:14.287: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002224: Oct 4 21:03:14.287: :cc_free_feature_vsa freeing 65F096F8
002225: Oct 4 21:03:14.287: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002226: Oct 4 21:03:14.287: vsacount in free is 2
002227: Oct 4 21:03:14.287:
     //280/736483928021/H221:():h221_free_context_saved_map:
002228: Oct 4 21:03:14.287:
     //280/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=280,
Call Entry(Disconnect Cause=31, Voice Class Cause Code=0, Retry Count=0)
002229: Oct 4 21:03:14.287:
     //280/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
002230: Oct 4 21:03:14.291: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002231: Oct 4 21:03:14.291: :cc_free_feature_vsa freeing 65F09620
002232: Oct 4 21:03:14.291: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:
```

```
002233: Oct 4 21:03:14.291: vsacount in free is 1
002234: Oct 4 21:03:14.307: h323chan_chn_process_read_socket
002235: Oct 4 21:03:14.307: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
002236: Oct 4 21:03:14.307: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

002237: Oct 4 21:03:14.307: h245_decode_one_pdu: more_pdus = 0,
    bytesLeftToDecode = 2
002238: Oct 4 21:03:14.307: H245 MSC INCOMING ENCODE BUFFER::= 4A40
002239: Oct 4 21:03:14.307:
002240: Oct 4 21:03:14.307: H245 MSC INCOMING PDU ::=

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

002241: Oct 4 21:03:14.307: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
    bytesLeftToDecode = 0
002242: Oct 4 21:03:14.307: h245_decode_one_pdu:
    Read Pkt body: more_pdus:0 rc:0 asn_rc:0
002243: Oct 4 21:03:14.307: H245 MSC OUTGOING PDU ::=

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

002244: Oct 4 21:03:14.307: H245 MSC OUTGOING ENCODE BUFFER::= 4A40
002245: Oct 4 21:03:14.307:
002246: Oct 4 21:03:14.319: h323chan_chn_process_read_socket
002247: Oct 4 21:03:14.319: h323chan_chn_process_read_socket: fd=4 of
    type CONNECTED has data
002248: Oct 4 21:03:14.319: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

002249: Oct 4 21:03:14.319: h323chan_chn_process_read_socket
002250: Oct 4 21:03:14.319: h323chan_chn_process_read_socket:
    fd=3 of type CONNECTED has data
002251: Oct 4 21:03:14.319: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=3

002252: Oct 4 21:03:14.319:
    //281/736483928021/CCAPI/cc_api_call_disconnect_done:
Disposition=0, Interface=0x65D7A87C, Tag=0x0, Call Id=281,
Call Entry(Disconnect Cause=31, Voice Class Cause Code=0, Retry Count=0)
002253: Oct 4 21:03:14.319:
    //281/736483928021/CCAPI/cc_api_call_disconnect_done:
Call Disconnect Event Sent
```

Informations connexes

- [Dépannage des problèmes de téléphonie IP Cisco](#)
- [Configuration de base entre contrôleur d'accès Cisco sur deux zones](#)
- [Contrôle d'admission des appels pour des passerelles VoIP H.323](#)
- [VoIP avec contrôleur d'accès](#)
- [Support et documentation techniques - Cisco Systems](#)