

# H.320 ゲートウェイから H.323 ゲートキーパーへのビデオ通話フロー

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## 概要

このドキュメントでは、基本的な H.320 ゲートウェイから H.323 ゲートキーパーへのビデオ通話のコールフローについて説明します。H.320 は ISDN ネットワークを介したマルチメディア データ、音声、およびビデオ コールに関する ITU-T 勧告です。

H.320 は次のプロトコルで構成されます。

- H.221:1つ以上のISDN Bチャネルでのオーディオビジュアルテレサービスのフレーム構造を定義します。
- H.230 : オーディオビジュアルシステムで使用される制御信号と情報信号を定義します。
- H.242 : モードの初期化、機能交換、マルチメディアコールの確立に必要なモード切り替えなどのシグナリング手順を定義します。

それぞれの H.320 ビデオ通話は、1 つのプライマリ コールおよびゼロ以上のセカンダリ コールで構成されます。たとえば、128 K のビデオ通話は、1 つのプライマリ コールと 1 つのセカンダリ コールで構成されます。

## 前提条件

## 要件

このドキュメントに特有の要件はありません。

## 使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- H.320 ゲートウェイ : NM-HDV2 ( 5510 DSP ) を搭載した Cisco 3725
- H.323 ゲートキーパー : Cisco 3660
- H.323 ビデオ端末 : Polycom V500
- 帯域幅 = 384 K

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期 ( デフォルト ) 設定の状態から起動しています。対象のネットワークが実稼働中である場合には、どのようなコマンドについても、その潜在的な影響について確実に理解しておく必要があります。

## 表記法

ドキュメント表記の詳細は、『[シスコテクニカルティップスの表記法](#)』を参照してください。

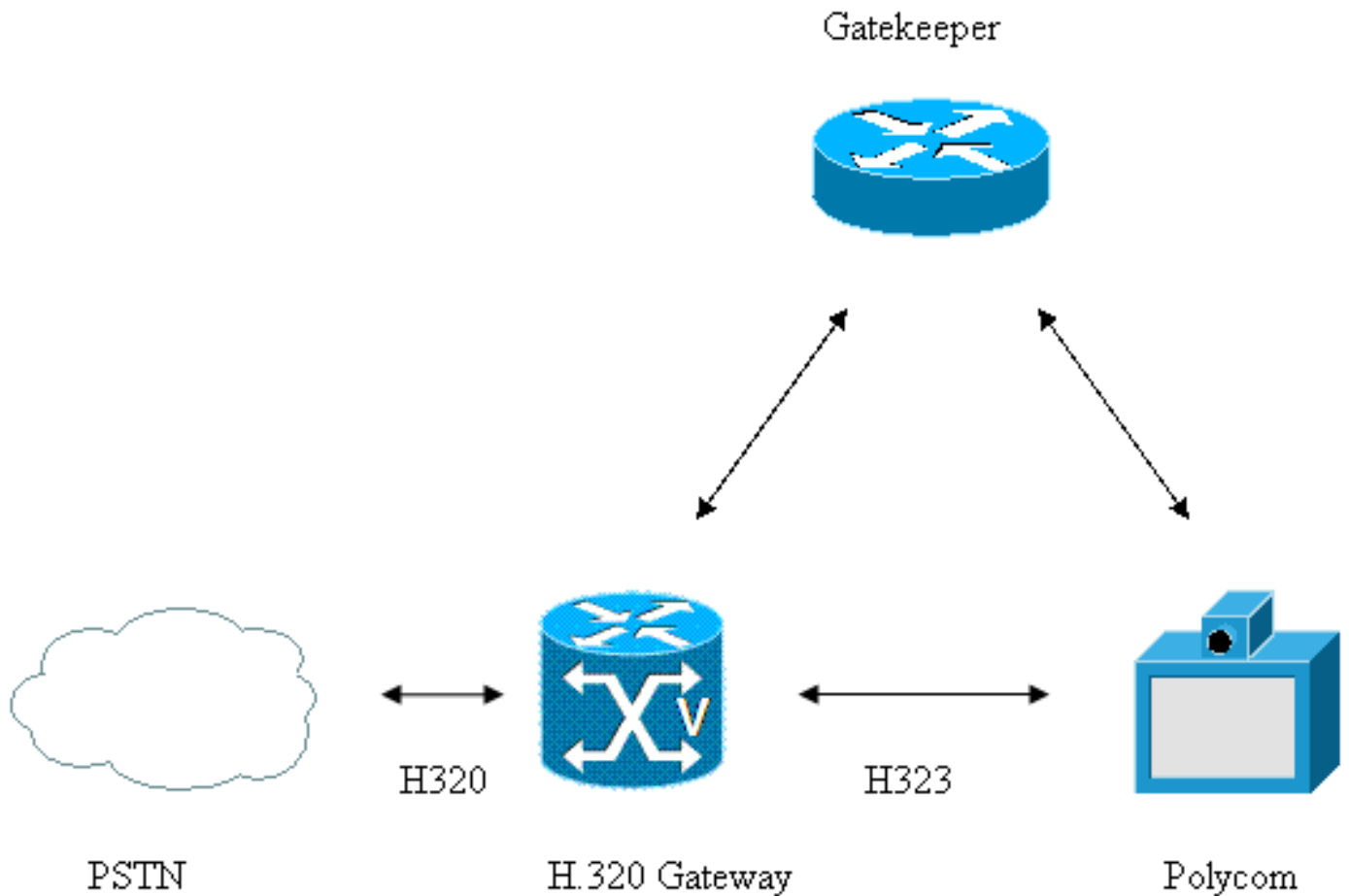
## 設定

このセクションでは、このドキュメントで説明する機能を設定するために必要な情報を提供しています。

注 : このセクションで使用される[コマンドの詳細を調べる](#)には、[Command Lookup Tool\(登録ユーザ専用\)](#)を使用してください。

## ネットワーク図

このドキュメントでは、次のネットワーク セットアップを使用します。



## ダイヤルプラン

このドキュメントでは、次のダイヤルプランを使用しています。

- PSTN のビデオ エンドポイント : 919-392-6000H.320 プライマリ コール番号 : 919-392-6000H.320 セカンダリ コール番号 : 919-392-6001 ~ 919-392-6005
- Polycom : 919-991-5600H.320 プライマリ コール番号 : 919-991-5600H.320 セカンダリ コール番号 : 919-991-5601 ~ 919-991-5605

## コンフィギュレーション

このドキュメントでは、次の設定を使用しています。

### デバイス H.320 ゲートウェイ設定名 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
```

## 帯域幅使用量

このドキュメントで説明するビデオ通話は 384 K の帯域幅を使用しています。

ビデオ通話の帯域幅使用量：

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

## コールフローの例

このセクションでは、次の設定例から得られるコールフローについて解説します。

1. PSTN からの ISDN コールは 919-991-5600 を着信番号として使用し、H.320 ゲートウェイに到達します。ベアラ機能 ( bearer-caps ) は、B チャンネル=1 で *Unrestricted Digital* に設定されています。
2. H.320 ゲートウェイは、着信ダイヤルピアの検索を実行します。bearer cap が *Unrestricted Digital* に設定されているため、最初に H.320 POTS ダイヤルピア ( 情報のタイプがビデオに設定されたダイヤルピア ) の検索を行い、ダイヤルピア 9190 に一致させます。最初のコールはプライマリコールと呼ばれます。
3. H.320 ゲートウェイは、発信ダイヤルピアの検索を実行し、ダイヤルピア 9910 経由でコールをルーティングします。
4. H.320 ゲートウェイは、ゲートキーパーにアドミッション要求 ( ARQ ) を送信し、アドミッション確認 ( ACF ) メッセージを受信します。
5. H.320 ゲートウェイは、Polycom に H.225 SETUP メッセージを送信します。
6. H.320 ゲートウェイは、Polycom から H.225 CONNECT メッセージを受信し、ビデオ通話は IP レッグで接続されます。
7. H.320 ゲートウェイは、PSTN に ISDN CONNECT メッセージを送信し、プライマリコールが接続されます。
8. H.320 ゲートウェイは、POTS レッグ経由で H.221 初期機能を送信します。
9. B チャンネル = 1 ( 初期チャンネルまたはプライマリコールとも呼ばれます ) 経由で H.221 フレーム同期が確立されます。

10. フレーム同期が確立されると、Polycom は 5 つのセカンダリ コールを順次開始します。フレーム同期は、B チャネル 2 ~ 6 ( 追加チャネルまたはセカンダリ コールとも呼ばれます ) 経由で確立されます。
11. H.320 ゲートウェイは、設定に示すように定義された **voice-class called-number inbound 1** コマンドを使用して 919-991-5601 ~ 919-991-5605 の範囲の着信セカンダリ コールをプライマリ コール ( ステップ 2 ) と関連付けます。
12. H.320 ゲートウェイと Polycom は音声およびビデオ機能を交換し、IP レッグと POTS レッグ間の音声ストリームとビデオ ストリームの論理チャネル ( OLC ) を開きます。

## キャパシティ プランニング

ネットワークでビデオトラフィックを扱う前に、必要なすべてのアプリケーションに適切な帯域幅があることを確認します。最初に、主要な各アプリケーション (たとえば、音声、ビデオ、データなど) に最低限必要な帯域幅を計算します。その合計が、いずれか特定のリンクで最低限必要となる帯域幅を示しています。この帯域幅が、リンクで利用可能な総帯域幅の 75% を超えないようにします。この 75% のルールでは、オーバーヘッドトラフィックのために、ある程度の帯域幅が必要になることが想定されています。オーバーヘッドトラフィックとしては、電子メールや HTTP など追加アプリケーションのトラフィックのほか、ルーティングプロトコルの更新やレイヤ 2 キープアライブが含まれます。音声やビデオによるトラフィックの占有率は、リンク容量の 33% 以下に抑えます。

### H.323 ビデオ

H.323 標準では、H.323 端末のビデオ機能はオプションです。ただし、H.323 端末を導入する場合には、端末で H.261 コーデックがサポートされており、オプションで H.263 標準がサポートされている必要があります。

- H.261:64 kbpsの倍数単位のオーディオビジュアルサービス用ビデオコーデック。H.261 準拠のデバイスでは、先頭フレームはすべて符号化されます。その後は、パケットの送信が最小限になるように、先頭フレームと後続フレームの差分だけが符号化されます。オプションのモーション補正は、画質を向上させます。
- H.263 : ビデオ用 Plain Old Telephone Service ( POTS; 一般電話サービス ) のためのビデオコーデック。H.263 標準は、H.261 標準を更新したものであり、下位互換性があります。H.263 では、1/2 ピクセル単位での動きベクトル探索技法 ( 必須要件 ) により、画質が大幅に向上しています。

## 確認

ここでは、設定が正常に機能しているかどうかを確認します。

[アウトプット インタープリタ ツール \( 登録ユーザ専用 \) \( OIT \)](#) は、特定の **show** コマンドをサポートします。OIT を使用して、show コマンドの出力の分析を表示します。

- **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**この出力では、ビデオ通話の Rx/Tx カウンタはプライマリ コール についてのみ報告され、セカンダリ コールについては報告されません。

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 videoPOTS LEG — Primary Call**

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  
PSCPaketDrops=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

## **POTS LEG — Secondary Call**

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

## IP LEG

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
```

## トラブルシューティング

ここでは、設定のトラブルシューティングに使用できる情報を示します。

### デバッグ コマンド

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

注 : [debug](#) コマンドを使用する前に、『[debug コマンドの重要な情報](#)』を参照してください。

### デバッグ出力

このセクションでは、次のコール フロー サンプルのデバッグ出力を示します。

1. [着信番号が 9199915600、Bearer-Cap が Unrestricted Digital に設定された着信 SETUP](#)
2. [着信ダイヤル ピア 9190 が一致](#)
3. [発信ダイヤル ピア 9910 が一致](#)
4. [H.320 ゲートウェイがゲートキーパーに ARQ 要求を送信](#)

5. [H.320 ゲートウェイがゲートキーパーから ACF 応答を受信](#)
6. [H.320 ゲートウェイが Polycom に H.225 SETUP メッセージを送信](#)
7. [コールが IP レッグで接続](#)
8. [H.320 ゲートウェイが ISDN 側で CONNECT を送信してコールが接続](#)
9. [H.320 ゲートウェイが初期機能セットを送信](#)
10. [B チャンネル 1 経由でフレーム同期が確立](#)
11. [H.320 ゲートウェイが最初のセカンダリ コールを受信](#)
12. [最初のセカンダリ コールが接続](#)
13. [B チャンネル 2 経由でフレーム同期が確立](#)
14. [H.320 ゲートウェイが 2 番目のセカンダリ コールを受信](#)
15. [2 番目のセカンダリ コールが接続](#)
16. [H.320 ゲートウェイが PSTN のビデオ エンドポイントから BAS コマンドを受信](#)
17. [B チャンネル 3 経由でフレーム同期が確立](#)
18. [H.320 ゲートウェイが 3 番目のセカンダリ コールを受信](#)
19. [3 番目のセカンダリ コールが接続](#)
20. [B チャンネル 4 経由でフレーム同期が確立](#)
21. [H.320 ゲートウェイが 4 番目のセカンダリ コールを受信](#)
22. [4 番目のセカンダリ コールが接続](#)
23. [B チャンネル 4 経由でフレーム同期が確立](#)
24. [H.320 ゲートウェイが 5 番目のセカンダリ コールを受信](#)
25. [5 番目のセカンダリ コールが接続](#)
26. [B チャンネル 6 経由でフレーム同期が確立](#)
27. [H.320 ゲートウェイが PSTN のビデオ エンドポイントから機能セットを受信](#)
28. [H.320 ゲートウェイが PSTN のビデオ エンドポイントに機能セットを送信](#)
29. [H.320 ゲートウェイが IP レッグ経由で Polycom に TCS を介して音声 \( G711ulaw \) およびビデオ \( H.263 \) 機能をアドバタイズ](#)
30. [H.320 ゲートウェイが Polycom に MSD 要求を送信](#)
31. [H.320 ゲートウェイが Polycom の音声 \( G.722、G.728、G.711 \) およびビデオ \( H.263 \) 機能セットを受信](#)
32. [H.320 ゲートウェイが Polycom に TCS ACK を送信](#)
33. [H.320 ゲートウェイが Polycom から MSD 要求を受信](#)
34. [H.320 ゲートウェイが Polycom に MSD ACK を送信](#)
35. [H.320 ゲートウェイが Polycom から TCS ACK を受信](#)
36. [H.320 ゲートウェイが Polycom から MSD ACK を受信](#)
37. [H.320 ゲートウェイが Polycom から Audio OLC \( G.711 \) を受信](#)
38. [H.320 ゲートウェイが POTS レッグ経由で発信音声モードを設定](#)
39. [H.320 ゲートウェイが Polycom に Audio OLC ACK を送信](#)
40. [H.320 ゲートウェイが Polycom から Video OLC \( H.263 \) を受信](#)
41. [Polycom から H.320 ゲートウェイへの H.263 ビデオ ストリームの RTP ペイロード タイプを 96 に設定](#)
42. [H.320 ゲートウェイが POTS レッグ経由で発信ビデオ モードを設定](#)
43. [H.320 ゲートウェイが Polycom に Video OLC ACK を送信](#)
44. [H.320 ゲートウェイが PSTN のリモート ビデオ エンドポイントに音声指示アクティブ コントロールおよび情報信号を送信](#)
45. [PSTN のビデオ エンドポイントが転送レートと音声モードを設定](#)
46. [H.320 ゲートウェイが Polycom に Audio OLC \( G.711 \) を送信](#)
47. [H.320 ゲートウェイが Polycom から Audio OLC ACK を受信](#)
48. [PSTN のビデオ エンドポイントがビデオ モードを設定](#)

49. [H.320 ゲートウェイが PSTN のリモート ビデオ エンドポイントから音声指示アクティブコントロールおよび情報信号を受信](#)
50. [H.320 ゲートウェイが Polycom に Video OLC \( H.263 \) を送信](#)
51. [H.320 ゲートウェイから Polycom への H.263 ビデオ ストリームの RTP ペイロードタイプを 110 に設定](#)
52. [H.320 ゲートウェイが Polycom から Video OLC ACK を受信](#)
53. [H.320 ゲートウェイが Polycom から Video Fast Update \( VFU \) 画像要求を受信](#)
54. [H.320 ゲートウェイが PSTN のビデオ エンドポイントに Video Fast Update 画像コントロールおよび情報信号を送信](#)
55. [H.320 ゲートウェイが Polycom からフロー制御コマンドを受信](#)
56. [H.320 ゲートウェイが PSTN のビデオ エンドポイントにフロー制御コマンドを送信](#)
57. [H.320 ゲートウェイが Polycom にフロー制御コマンドを送信](#)
58. [H.320 ゲートウェイが PSTN のビデオ エンドポイントからフロー制御コマンドを受信](#)
59. [H.320 ゲートウェイが Polycom にフロー制御コマンドを送信](#)
60. [PSTN のビデオ エンドポイントがビデオ通話を切断](#)
61. [H.320 ゲートウェイが IP レッグでコールをクリア](#)
62. [H.320 ゲートウェイがゲートキーパーに DRQ を送信](#)

## [着信番号が 9199915600、Bearer-Cap が Unrestricted Digital に設定された着信 SETUP](#)

これは H.320 プライマリ コールです。

```
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
```

## 着信ダイヤルピア 9190 が一致

```
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
```

## [発信ダイヤルピア 9910 が一致](#)

```
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
```

## [H.320 ゲートウェイがゲートキーパーに ARQ 要求を送信](#)

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





```
2D00328002BC00001C40B500001280B980000010A801820C144953444E20322F313A32338
0A300A049414D2C0D0A50524E2C6973646E2A2C2C4E492A2A2A2C0D0A5553492C72617465
2C632C642C632C310D0A544D522C30310D0A43504E2C30342C2C312C39313939393135363
0300D0A43474E2C30342C2C312C792C332C39313933393236303030D0A4350432C30390D
0A4643492C2C2C2C2C2C792C0D0A4743492C37333634383339323533323231316462383
032313030306432386433643763300D0A0D0A73648392532211DB8021000D28D3D7C008E0
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_recvddata: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:
```

## [H.320 ゲートウェイがゲートキーパーから ACF 応答を受信](#)

```
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::=
      00020480C4C6C5933340090056006900640065006F002D00470057002D0032010
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
}
interpretationA pdu discardAnyUnrecognizedInvokePdu : NULL
serviceA pdu rosA pdus :
{
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 ::=
60010200010429040288901803A9838128033131316C0C2182393139333932363
03030700BA139313939393135363030
001359: Oct 4 21:02:16.796:
```

## [H.320 ゲートウェイが Polycom に H.225 SETUP メッセージを送信](#)

```
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 '60010200010429040288901803A9838128033131...'H
}
}
}
```

```
001361: Oct 4 21:02:16.804: H225.0 OUTGOING ENCODE BUFFER::=
20A0060008914A00040140090056006900640065006F002D00470057002D003228C0B5
0000120B436973636F47617465776179003240023C0504010020402C05010000736483
92532211DB8021000D28D3D7C000CD0D800007000E0110DC3AB1110073651FB9532211
DB817D90162806D3F1010001000180018011A010010E60000110002C00015504430000
000100370140B50000123060010200010429040288901803A9838128033131316C0C21
8239313933393236303030700BA139313939393135363030
```

```
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 0520A0060008914A00040140090056006900640065006F002D00470057002D003228C0B5
0000120B436973636F47617465776179003240023C0504010020402C0501000073648392
532211DB8021000D28D3D7C000CD0D800007000E0110DC3AB1110073651FB9532211DB81
7D90162806D3F1010001000180018011A010010E60000110002C00015504430000000100
370140B50000123060010200010429040288901803A9838128033131316C0C2182393139
33393236303030700BA139313939393135363030
```

```
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, Responded=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(Responded=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  
1010001800100014010800100

```
001385: Oct 4 21:02:16.884: H225.0 INCOMING ENCODE BUFFER ::= 22C006000
8914A0004000E3205340A2322C0B500233103563530301E52656C656173652037
2E352E31202D2031314A616E323030352031353A35380073648392532211DB802
1000D28D3D7C01D0CC0110073651FB9532211DB817D90162806D3F10100018001
00014010800100
```

```
001386: Oct 4 21:02:16.884:
```

## [コールが IP レッグで接続](#)

```
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, Responded=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::=
5AC0080128C0B50000120B436973636F47617465776179003240023C05040100
20402C0501000780003600350037003600360043003600430030003000300030
0030003000300031000E0110DCD06B01000E0110DC06B80A0180A89401807654
0180B3330180A4440180AC640180A8930180AA340180AA350180A89840090056
006900640065006F002D00470057002D003201E100B500001205704524215800
1C73648392532211DB8021000D28D3D7C0802002BC0003C900110073651FB953
2211DB817D90162806D3F10100072000C0452421570E2401000180
```

```
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, Responded=TRUE)
```

[H.320 ゲートウェイが ISDN 側で CONNECT を送信してコールが接続](#)

これはプライマリ コールです。

```
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
```

### H.320 ゲートウェイが初期機能セットを送信

```
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
```

### B チャンネル 1 経由でフレーム同期が確立

```
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
```

### H.320 ゲートウェイが最初のセカンダリ コールを受信

```
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,
```

```
feature_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, Responded=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
```

### 最初のセカンダリ コールが接続

```
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
```

### B チャネル 2 経由でフレーム同期が確立

```
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
```

### H.320 ゲートウェイが 2 番目のセカンダリ コールを受信

```
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,
feature_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, Responded=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
```

## 2番目のセカンダリコールが接続

```
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
```

## H.320 ゲートウェイが PSTN のビデオ エンドポイントから BAS コマンドを受信

H.320 ゲートウェイは、PSTN のビデオ エンドポイントが H.263 機能を受け入れられることを示す BAS コマンドを受信します。

```
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_sqelch:
H221 Sqelch Map=0x0
001462: Oct 4 21:02:17.536: //280/736483928021/H221():
    dsmp_h221_check_for_bas_sqelch:
H221 Sqelch Map=0x0
```

### B チャンネル 3 経由でフレーム同期が確立

```
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
```

### H.320 ゲートウェイが 3 番目のセカンダリ コールを受信

```
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, Responded=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
```

### 3 番目のセカンダリ コールが接続

```
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
```

### B チャンネル 4 経由でフレーム同期が確立

```
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
```

### H.320 ゲートウェイが 4 番目のセカンダリ コールを受信

```
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, Responded=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

#### **4番目のセカンダリコールが接続**

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_sqelch:
H221 Sqelch Map=0x0
001516: Oct 4 21:02:18.036: //280/736483928021/H221():
    dsmp_h221_check_for_bas_sqelch:
H221 Sqelch 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
```

## B チャンネル 4 経由でフレーム同期が確立

```
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
```

## H.320 ゲートウェイが 5 番目のセカンダリ コールを受信

```
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, Responded=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
```

## 5番目のセカンダリコールが接続

```
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
```

## **B チャンネル 6 経由でフレーム同期が確立**

```
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
```

## **H.320 ゲートウェイが PSTN のビデオエンドポイントから機能セットを受信**

機能セットは、ビデオエンドポイントでサポートされる Minimum Picture Interval ( MPI )、縦横比、オーディオコーデック、ビデオコーデック、および B チャンネルの数を指定します。

```
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
```

## [H.320 ゲートウェイが PSTN のビデオエンドポイントに機能セットを送信](#)

```
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
```

## [H.320 ゲートウェイが IP レッグ経由で Polycom に TCS を介して音声 \( G711ulaw \) およびビデオ \( H.263 \) 機能をアドバタイズ](#)

```
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
    }
    pixelAspectRatioInformation pixelAspectRatioCode :
    {
      3
    }
  },
  {
    maxCustomPictureWidth 88
    maxCustomPictureHeight 60
    minCustomPictureWidth 88
    minCustomPictureHeight 60
    mPI
    {
      standardMPI 1
    }
    pixelAspectRatioInformation pixelAspectRatioCode :
    {
      3
    }
  }
}
capabilityDescriptors
{
  {
    capabilityDescriptorNumber 1
    simultaneousCapabilities
    {
      {
        3
      },
      {
        39
      },
      {
        34
      }
    }
  }
}
```

001578: Oct 4 21:02:19.060: H245 MSC OUTGOING ENCODE BUFFER::=  
0270010600088175000780198000140001000001000001000402040008097C0

```
66001000100028000218A061404302D313680000220C01380002609FC00000A
0BC820705001001B080000104000AF007700AF00774120400057003B0057003
B40204000800102000002000026000021
```

001579: Oct 4 21:02:19.060:

### H.320 ゲートウェイが Polycom に MSD 要求を送信

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 ::=

```
02700106000881750007801C00003C00010000010000010004020D0108097C1007
000881710000001180000024301660C0B5000001019340BB80010CB50000010101
20000180000124301660C0B50000010192407D00010CB500000101012000018000
0224301660C0B50000010191405DC0010CB5000001010120000180000324301160
00060007B8350100407D0001001200018000042430116000060007B8350100405D
C0010012000180000524301660C0B50000010196403E80010CB500000101012000
0180000621401380000722400780000820C01380000920401380000A0C00216000
0700088171000001400F000502914002A2001D0032001400620015004200078000
0B09FC00000A0EFF20705001001B080000104000AF007700AF0077412040005700
3B0057003B40204080000C0C000900C0B500233102210180000D0C001220C0B500
0001019D010CB50000010101101080000E08B0000EFF40000F48C600328000104A
0C09000006000881600100003280001104B5002331045153404400800003090000
00010002000300040005000600070008000904000A000B000C000D000E01000F00
10000011
```

001591: Oct 4 21:02:19.092:

### H.320 ゲートウェイが Polycom の音声 ( G.722、G.728、G.711 ) およびビデオ ( H.263 ) 機能セ ットを受信

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_pdu: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
```

### [H.320 ゲートウェイが Polycom に TCS ACK を送信](#)

```
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:
```

### [H.320 ゲートウェイが Polycom から MSD 要求を受信](#)

```
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
```

### [H.320 ゲートウェイが Polycom に MSD ACK を送信](#)

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:

## [H.320 ゲートウェイが Polycom から TCS ACK を受信](#)

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 ::=

## [H.320 ゲートウェイが Polycom から MSD ACK を受信](#)

```
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:
```

## [H.320 ゲートウェイが Polycom から Audio OLC \( G.711 \) を受信](#)

PolycomのオーディオストリームのRTCP ipaddress:portは14.50.5.52:49195です。

```
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
```

## [H.320 ゲートウェイが POTS レッグ経由で発信音声モードを設定](#)

```
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
```

### [H.320 ゲートウェイが Polycom に Audio OLC ACK を送信](#)

H.320ゲートウェイのオーディオストリームのRTPおよびRTCP ipaddress:portは14.1.16.220:18718および14.1.16.220:18719です。

```
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
57003B0057003B4020408011046002000E320534C02D04000448097CC0
001663: Oct 4 21:02:19.204:
```

### [H.320 ゲートウェイが Polycom から Video OLC \( H.263 \) を受信](#)

PolycomのRTCP ipaddress:port for Video streamは14.50.5.52:49197です。

### [Polycom から H.320 ゲートウェイへの H.263 ビデオストリームの RTP ペイロード タイプを 96 に設定](#)

```
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
```

## [H.320 ゲートウェイが POTS レッグ経由で発信ビデオ モードを設定](#)

```
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
```

## [H.320 ゲートウェイが Polycom に Video OLC ACK を送信](#)

H.320ゲートウェイのRTPおよびRTCP ipaddress:port for video streamは14.1.16.220:18078および14.1.16.220:18079です。

```
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:
```

## H.320 ゲートウェイが PSTN のリモート ビデオ エンドポイントに音声指示アクティブ コントロールおよび情報信号を送信

H.320 ゲートウェイは音声チャンネルをアクティブにするため、PSTN のリモート ビデオ エンドポイントに音声指示アクティブ コントロールと情報信号を送信します。

```
//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.*

## PSTN のビデオ エンドポイントが転送レートと音声モードを設定



```
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
```

## [H.320 ゲートウェイが Polycom に Audio OLC \( G.711 \) を送信](#)

H.320ゲートウェイのオーディオストリームのRTCP ipaddress:portは14.1.16.220:18719です。

```
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:
```

### [H.320 ゲートウェイが Polycom から Audio OLC ACK を受信](#)

PolycomのRTPおよびRTCP ipaddress:portはオーディオストリーム用で、14.50.5.52:49194および14.50.5.52:49195です。

```
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: H245ASND decodePdu 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::=
      320008021E0036003500370036003600430036004300300030003000300030003
      00030003173648392532211DB8021000D28D3D7C0001C401C8415080011007365
      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*

## PSTN のビデオ エンドポイントがビデオ モードを設定

```
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
```

## H.320 ゲートウェイが PSTN のリモート ビデオ エンドポイントから音声指示アクティブ コントロールおよび情報信号を受信

H.320 ゲートウェイは音声チャンネルをアクティブにするため、PSTN のリモート ビデオ エンドポイントから音声指示アクティブ コントロールと情報信号を受信します。

```
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
```

## [H.320 ゲートウェイが Polycom に Video OLC \( H.263 \) を送信](#)

H.320ゲートウェイのビデオストリームのRTCP ipaddress:portは14.1.16.220:18079です。

## [H.320 ゲートウェイから Polycom への H.263 ビデオ ストリームの RTP ペイロード タイプを 110 に設定](#)

```
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
}
pixelAspectRatioInformation pixelAspectRatioCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectRatioInformation pixelAspectRatioCode :
{
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:
```

## [H.320 ゲートウェイが Polycom から Video OLC ACK を受信](#)

PolycomのRTPおよびRTCP ipaddress:port for video streamは14.50.5.52:49196および14.50.5.52:49197です。

```
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:
```

[H.320 ゲートウェイが Polycom から Video Fast Update \( VFU \) 画像要求を受信](#)

この出力では、H.320 ゲートウェイは Polycom からビデオ ストリームを受信する準備ができたことを示す VFU 画像要求を受信します。

```
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:
```

## [H.320 ゲートウェイが PSTN のビデオ エンドポイントに Video Fast Update 画像コントロールおよび情報信号を送信](#)

```
//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:
```

## [H.320 ゲートウェイが Polycom からフロー制御コマンドを受信](#)

```
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:

### H.320 ゲートウェイが PSTN のビデオエンドポイントにフロー制御コマンドを送信

//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*

### H.320 ゲートウェイが Polycom にフロー制御コマンドを送信

### H.320ゲートウェイがPSTNのビデオエンドポイントからフロー制御コマンドを受信

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

### H.320 ゲートウェイが Polycom にフロー制御コマンドを送信

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*

### PSTN のビデオエンドポイントがビデオ通話を切断

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(Responded=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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/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(Responded=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(Responded=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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/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
E2C6973646E2A2C2C4E492A2A2A2C0D0A0D0A
002199: Oct 4 21:03:14.263:
```

## [H.320 ゲートウェイが IP レッグでコールをクリア](#)

```
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:
```

## H.320 ゲートウェイがゲートキーパーに DRQ を送信

```
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
C045242157C04524219005440802809F

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
```

## 関連情報

- [Cisco IP Telephony のトラブルシューティング](#)
- [2つのゾーンでの Cisco ゲートウェイ/ゲートキーパーの基本設定](#)
- [H.323 VoIP ゲートウェイ用のコールアドミッション制御](#)
- [ゲートキーパーを使用した VoIP](#)
- [テクニカル サポートとドキュメント - Cisco Systems](#)