

H.320网关到H.323网守视频呼叫流

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简介

本文档介绍基本H.320网关到H.323网守视频呼叫的呼叫流程。H.320是ISDN网络上多媒体数据、语音和视频呼叫的ITU-T建议。

H.320包括以下协议：

- H.221 — 定义跨1个或多个ISDN B信道的视听电视服务的帧结构。
- H.230 — 定义视听系统中使用的控制和信息信号。
- H.242 — 定义建立多媒体呼叫所需的信令过程，如模式初始化、功能交换和模式交换。

每个H.320视频呼叫包括一个主呼叫和零个或多个辅助呼叫。例如，128K视频呼叫包括1个主呼叫和1个辅助呼叫。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- H.320网关：带NM-HDV2的Cisco 3725(5510 DSP)
- H.323网守：Cisco 3660
- H.323视频终端：Polycom V500
- 带宽= 384K

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

规则

关于文件规则的信息，请参见[Cisco技术提示规则](#)。

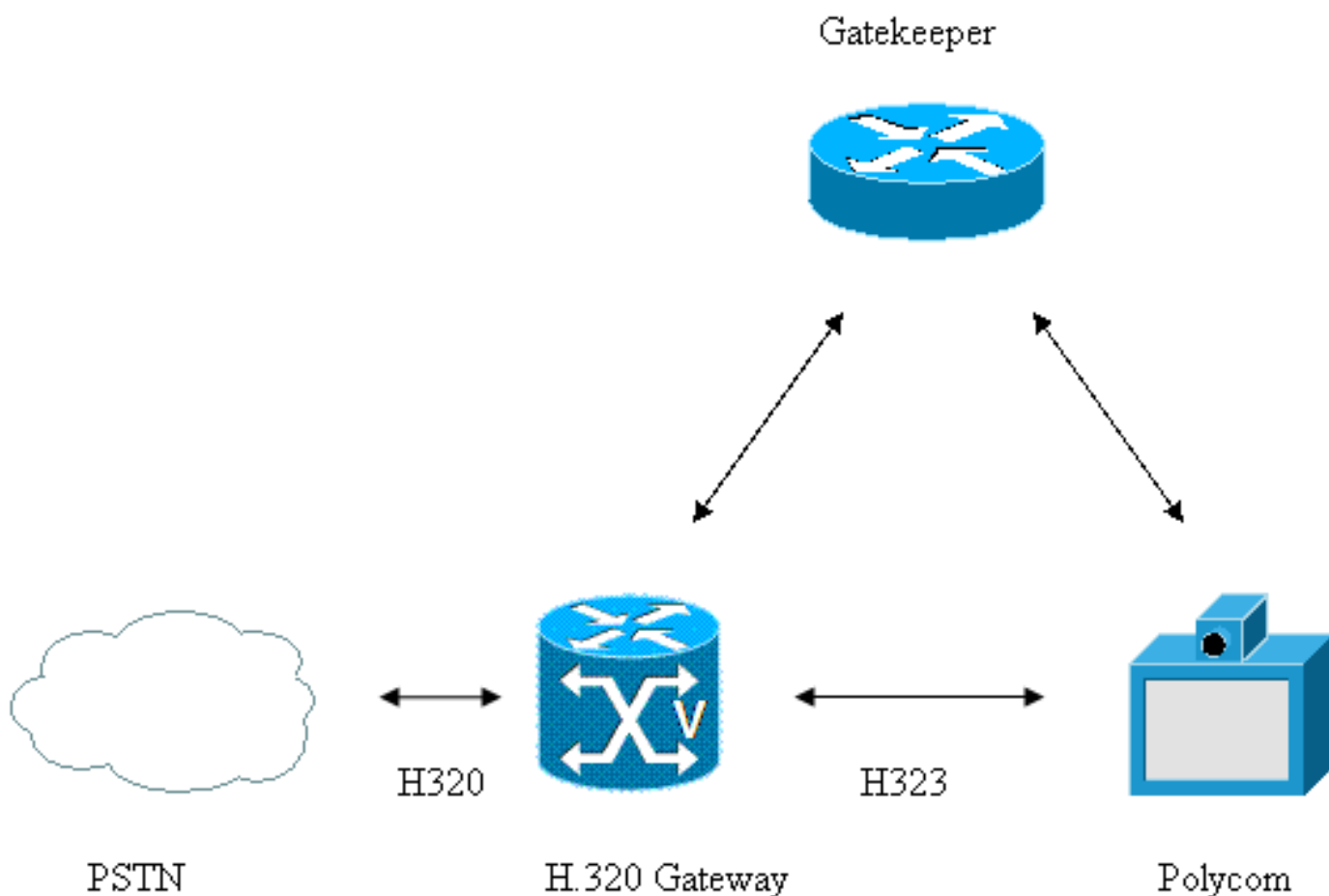
配置

本部分提供有关如何配置本文档所述功能的信息。

注意：要获取有关本部分中所使用命令的更多信息，可使用[命令查找工具](#)（仅限[已注册](#)客户）。

网络图

本文档使用以下网络设置：



拨号方案

本文档使用此拨号方案：

- PSTN中的视频终端：919-392-6000H.320主被叫号码：919-392-6000H.320辅助被叫号码：919-392-6001 到 919-392-6005
- Polycom:919-991-5600H.320主被叫号码：919-991-5600H.320辅助被叫号码：919-991-5601 到 919-991-5605

配置

本文档使用以下配置：

设备H.320网关配置名称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
```

带宽消耗

本文档中描述的视频呼叫使用384K带宽。

视频呼叫的带宽消耗：

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

呼叫流示例

此部分描述该的呼叫流从此配置示例的结果。

1. 来自PSTN的ISDN呼叫以919-991-5600作为被叫号码到达H.320网关，承载能力（承载上限）在B信道=1上设置为无限制数字。
2. H.320网关执行传入拨号对等体搜索。由于承载限制设置为Unrestricted digital，因此它首先搜索H.320 POTS拨号对等体（配置了设置为视频的信息类型的拨号对等体），并匹配拨号对等体9190。第一个呼叫称为主呼叫。
3. H.320网关执行传出拨号对等体搜索并通过拨号对等体9910路由呼叫。
4. H.320网关向网守发送准入请求(ARQ)，并接收准入确认(ACF)消息。
5. H.320网关向Polycom发送H.225 SETUP消息。
6. H.320网关从Polycom接收H.225 CONNECT消息，视频呼叫在IP支路上连接。
7. H.320网关向PSTN发送ISDN CONNECT消息，主呼叫将连接
8. H.320网关通过POTS支路发送H.221初始功能。
9. H.221帧同步在B信道= 1（也称为初始信道或主呼叫）上建立。
10. 在建立帧同步后，Polycom将依次发起5个辅助呼叫。帧同步在B信道2到6（也称为附加信道或辅助呼叫）之间建立。
11. H.320网关将919-991-5601到919-991-5605范围内的传入辅助呼叫与主呼叫（步骤2）与 **voice-class called-number inbound 1**命令关联，如配置所示。
12. H.320网关和Polycom交换音频和视频功能，以及跨IP支路和POTS支路的音频和视频流的开放逻辑信道(OLC)。

容量规划

在将视频流量置于网络中之前，请确保所有必要的应用程序均具有足够的带宽。首先，计算每个主要应用（例如语音、视频和数据）的最低带宽要求。其总和表示所有特定链路的最低带宽要求。此数量占该链路总可用带宽的比例不得超过 75%。这一 75% 的规则假设开销流量需要某些带宽。开销流量示例包括路由协议更新和第 2 层 Keepalive 以及其他应用程序，例如电子邮件和 HTTP 数据流。语音和视频流量占链路容量的比例不超过33%

H.323 视频

根据 H.323 标准，H.323 终端中的视频功能为可选功能。但是当您使用 H.323 终端时，该终端必须支持 H.261 编解码器，并且可以选择支持 H.263 标准。

- H.261 — 用于视听服务的视频编解码器，64 kbps的倍数。与 H.261 兼容的设备可对初始帧进行完全编码。设备在随后仅对最小数据包传输的初始帧和随后帧之间的差异进行编码。可选运动补偿可提高图像质量。
- H.263 — 视频普通老式电话服务(POTS)的视频编解码器。H.263 标准是 H.261 标准经过向后兼容更新得到的标准。H.263 通过半像素运动估计技术显著提高了图像质量，这是必要条件。

验证

使用本部分可确认配置能否正常运行。

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

- **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**在此输出中，视频呼叫的Rx/Tx计数器仅报告给主呼叫，而不报告给辅助呼叫。

```
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 — 主呼叫**

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 — 辅助呼叫

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
```

故障排除

本部分提供的信息可用于对配置进行故障排除。

调试命令

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

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

调试输出

此部分为此示例呼叫流提供debug输出：

1. [被叫号码= 9199915600且承载能力设置为不受限数字的传入SETUP](#)
2. [入站拨号对等体9190匹配](#)
3. [匹配出站拨号对等体9910](#)
4. [H.320网关向网守发送ARQ请求](#)
5. [H.320网关从网守接收ACF响应](#)
6. [H.320网关向Polycom发送H.225 SETUP消息](#)
7. [呼叫在IP支路上连接](#)
8. [H.320网关在ISDN端发送CONNECT并接通呼叫](#)
9. [H.320网关发送初始功能集](#)
10. [帧同步在B通道1中建立](#)
11. [H.320网关接收第一个辅助呼叫](#)
12. [第一个辅助呼叫已连接](#)
13. [帧同步在B通道2中建立](#)
14. [H.320网关接收第二次呼叫](#)
15. [第二个辅助呼叫已连接](#)
16. [H.320网关从PSTN中的视频终端接收BAS命令](#)
17. [帧同步在B通道3中建立](#)
18. [H.320网关接收第三个辅助呼叫](#)
19. [第三个辅助呼叫已连接](#)
20. [在B信道4上建立帧同步](#)
21. [H.320网关接收第四个辅助呼叫](#)
22. [第四个辅助呼叫已连接](#)
23. [在B信道4上建立帧同步](#)
24. [H.320网关接收第五个辅助呼叫](#)
25. [第五个辅助呼叫已连接](#)
26. [在B信道6上建立帧同步](#)
27. [H.320网关从PSTN中的视频终端接收功能集](#)
28. [H.320网关向PSTN中的视频终端发送功能集](#)
29. [H.320网关通过TCS通过IP支路向Polycom通告音频\(G711ulaw\)和视频\(H.263\)功能](#)
30. [H.320网关向Polycom发送MSD请求](#)
31. [H.320网关接收Polycom的音频\(G.722、G.728、G.711\)和视频\(H.263\)功能集](#)
32. [H.320网关将TCS ACK发送到Polycom](#)
33. [H.320网关从Polycom接收MSD请求](#)
34. [H.320网关向Polycom发送MSD ACK](#)
35. [H.320网关从Polycom接收TCS ACK](#)
36. [H.320网关从Polycom接收MSD ACK](#)
37. [H.320网关从Polycom接收音频OLC\(G.711\)](#)
38. [H.320网关在POTS支路上设置传出音频模式](#)
39. [H.320网关将音频OLC ACK发送到Polycom](#)
40. [H.320网关从Polycom接收视频OLC\(H.263\)](#)
41. [从Polycom到H.320网关的H.263视频流的RTP负载类型设置为96](#)
42. [H.320网关在POTS支路上设置传出视频模式](#)
43. [H.320网关将视频OLC ACK发送到Polycom](#)
44. [H.320网关向PSTN中的远程视频终端发送音频指示活动控制和信息信号](#)
45. [PSTN中的视频终端设置传输速率和音频模式](#)
46. [H.320网关将音频OLC\(G.711\)发送到Polycom](#)

47. [H.320网关从Polycom接收音频OLC ACK](#)
48. [PSTN中的视频终端设置视频模式](#)
49. [H.320网关从PSTN中的远程视频终端接收音频指示活动控制和信息信号](#)
50. [H.320网关将视频OLC\(H.263\)发送到Polycom](#)
51. [从H.320网关到Polycom的H.263视频流的RTP负载类型设置为110](#)
52. [H.320网关从Polycom接收视频OLC确认](#)
53. [H.320网关从Polycom接收视频快速更新\(VFU\)图片请求](#)
54. [H.320网关将视频快速更新画面控制和信息信号发送到PSTN中的视频终端](#)
55. [H.320网关从Polycom接收流量控制命令](#)
56. [H.320网关向PSTN中的视频终端发送流量控制命令](#)
57. [H.320网关向Polycom发送流量控制命令](#)
58. [H.320网关从PSTN中的视频终端接收流量控制命令](#)
59. [H.320网关向Polycom发送流量控制命令](#)
60. [PSTN中的视频终端断开视频呼叫](#)
61. [H.320网关清除IP支路上的呼叫](#)
62. [H.320网关将DRQ发送到网守](#)

[被叫号码= 9199915600且承载能力设置为不受限数字的传入SETUP](#)

这是H.320主呼叫。

```
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-rdnpi=-1
```

```
cisco-redirectreason=-1 fwd_final_type =0
final_redirectNumber =
hunt_group_timeout =0
```

[入站拨号对等体9190匹配](#)

```
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
```

[匹配出站拨号对等体9910](#)

```
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网关向网守发送ARQ请求](#)

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

```
value ARQnonStandardInfo ::=
```



```
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_recvdata:rcvd from
[14.50.3.101:1719] on fd=2

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

001343: Oct 4 21:02:16.780:

[H.320网关从网守接收ACF响应](#)

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网关向Polycom发送H.225 SETUP消息](#)

```
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:

呼叫在IP支路上连接

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网关在ISDN端发送CONNECT并接通呼叫](#)

这是主呼叫。

```
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网关发送初始功能集

```
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
```

帧同步在B通道1中建立

```
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网关接收第一个辅助呼叫

```
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
```

第一个辅助呼叫已连接

```
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
```

帧同步在B通道2中建立

```
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网关接收第二次呼叫

```
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
```

第二个辅助呼叫已连接

```
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网关从PSTN中的视频终端接收BAS命令

H.320网关从PSTN中的视频终端接收BAS命令，这表示它可以接受H.263功能。

```
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
```

帧同步在B通道3中建立

```
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网关接收第三个辅助呼叫

```
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,feature_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
```

第三个辅助呼叫已连接

```
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
```

在B信道4上建立帧同步

```
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网关接收第四个辅助呼叫

```
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

第四个辅助呼叫已连接

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

001503: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Cisco H.221
Version Indication, Version=(1.0)
001504: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=Caps From H.320
Peer Endpoint Present
001505: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=H.263 Non-Standard
Caps, Custom Picture Number=0
001506: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Standard MPI Received=TRUE, Standard MPI=2
001507: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)
001508: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Cisco GW non-standard Indication Received, Command=H.263 Non-Standard
Caps, Custom Picture Number=1
001509: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_incoming_ns_cap_comm:
Standard MPI Received=TRUE, Standard MPI=1

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

在B信道4上建立帧同步

```
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网关接收第五个辅助呼叫

```
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

第五个辅助呼叫已连接

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_sqelch:
H221 Sqelch Map=0x0
001550: Oct 4 21:02:18.536: //280/736483928021/H221():
dsmp_h221_check_for_bas_sqelch:
H221 Sqelch Map=0x0
```

在B信道6上建立帧同步

```
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 Sqelch 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 Sqelch Status=0x0, H221 Sqelch Map=0x0
```

H.320网关从PSTN中的视频终端接收功能集

功能集指定最小图片间隔(MPI)、宽高比、音频编解码器、视频编解码器以及视频终端支持的b通道数。

```
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网关向PSTN中的视频终端发送功能集](#)

```

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网关通过TCS通过IP支路向Polycom通告音频\(G711ulaw\)和视频\(H.263\)功能](#)

```

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

value MultimediaSystemControlMessage ::= request : terminalCapabilitySet :
{
sequenceNumber 1
protocolIdentifier { 0 0 8 245 0 7 }
multiplexCapability h2250Capability :

```

```
{
maximumAudioDelayJitter 20
receiveMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
transmitMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
receiveAndTransmitMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
}
mcCapability
{
centralizedConferenceMC FALSE
decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
h261aVideoPacketization FALSE
}
rtpPayloadType
{
```

```

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

{
capabilityTableEntryNumber 34
capability receiveRTPAudioTelephonyEventCapability :
{
dynamicRTPPayloadType 101
audioTelephoneEvent "0-16"
}
},
{
capabilityTableEntryNumber 3
capability receiveAudioCapability : g711Ulaw64k : 20
},
{
capabilityTableEntryNumber 39
capability receiveVideoCapability : h263VideoCapability :
{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3017
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE

```

```

customPictureFormat
{
  {
    maxCustomPictureWidth 176
    maxCustomPictureHeight 120
    minCustomPictureWidth 176
    minCustomPictureHeight 120
    mPI
    {
      standardMPI 2
    }
    pixelAspectInformation pixelAspectCode :
    {
      3
    }
  },
  {
    maxCustomPictureWidth 88
    maxCustomPictureHeight 60
    minCustomPictureWidth 88
    minCustomPictureHeight 60
    mPI
    {
      standardMPI 1
    }
    pixelAspectInformation pixelAspectCode :
    {
      3
    }
  }
}
capabilityDescriptors
{
  {
    capabilityDescriptorNumber 1
    simultaneousCapabilities
    {
      {
        3
      },
      {
        39
      },
      {
        34
      }
    }
  }
}

```

```

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

```

B40204000800102000002000026000021

001579: Oct 4 21:02:19.060:

[H.320网关向Polycom发送MSD请求](#)

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网关接收Polycom的音频\(G.722、G.728、G.711\)和视频\(H.263\)功能集](#)

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

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

```
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
transmitMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
receiveAndTransmitMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
mcCapability
{
centralizedConferenceMC FALSE
decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
h261aVideoPacketization FALSE
rtpPayloadType
{
{
payloadDescriptor rfc-number : 2429
},
{
payloadDescriptor oid : { 0 0 8 241 0 0 0 }
```



```

}
}
}
}
capabilityTable
{

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

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
}
}
},
{
capabilityTableEntryNumber 2
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '92'H
}
maxBitRate 32000
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{

```

```

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

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
}
}
},
{
capabilityTableEntryNumber 4
capability receiveAudioCapability : genericAudioCapability :
{
capabilityIdentifier standard : { 0 0 7 7221 1 0 }
maxBitRate 32000
collapsing
{

{
parameterIdentifier standard : 1
parameterValue unsignedMin : 1
}
}
},
{
capabilityTableEntryNumber 5
capability receiveAudioCapability : genericAudioCapability :

```

```

{
capabilityIdentifier standard : { 0 0 7 7221 1 0 }
maxBitRate 24000
collapsing
{

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

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue unsignedMin : 1
}
}
},
{
capabilityTableEntryNumber 7
capability receiveAudioCapability : g722-64k : 20
},
{
capabilityTableEntryNumber 8
capability receiveAudioCapability : g728 : 8
},
{
capabilityTableEntryNumber 9
capability receiveAudioCapability : g711Ulaw64k : 20
},
{
capabilityTableEntryNumber 10
capability receiveAudioCapability : g711Alaw64k : 20
},
{

```

```

capabilityTableEntryNumber 11
capability receiveVideoCapability : genericVideoCapability :
{
capabilityIdentifier standard : { 0 0 8 241 0 0 1 }
maxBitRate 3840
collapsing
{
{
parameterIdentifier standard : 41
parameterValue booleanArray : 64
},
{
parameterIdentifier standard : 42
parameterValue unsignedMin : 29
},
{
parameterIdentifier standard : 3
parameterValue unsignedMin : 20
},
{
parameterIdentifier standard : 6
parameterValue unsignedMin : 21
},
{
parameterIdentifier standard : 4
parameterValue unsignedMin : 7
}
}
},
{
capabilityTableEntryNumber 12
capability receiveVideoCapability : h263VideoCapability :
{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3840
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE

```

```
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
},
{
capabilityTableEntryNumber 13
capability receiveVideoCapability : genericVideoCapability :
{
capabilityIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 9009
}
}
data '2101'H
}
}
},
{
capabilityTableEntryNumber 14
capability receiveVideoCapability : genericVideoCapability :
{
capabilityIdentifier h221NonStandard :
```

```

{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '9D'H
}
collapsing
{

{
parameterIdentifier h221NonStandard :
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 1
}
data '01'H
}
parameterValue booleanArray : 16
}
}
},
{
capabilityTableEntryNumber 15
capability receiveVideoCapability : h261VideoCapability :
{
qcifMPI 1
cifMPI 1
temporalSpatialTradeOffCapability FALSE
maxBitRate 3840
stillImageTransmission FALSE
}
},
{
capabilityTableEntryNumber 16
capability receiveAndTransmitDataApplicationCapability :
{
application h224 : hdlcFrameTunnelling : NULL
maxBitRate 50
}
},
{
capabilityTableEntryNumber 17
capability receiveAndTransmitDataApplicationCapability :
{
application genericDataCapability :
{
capabilityIdentifier standard : { 0 0 8 224 1 0 }
}
maxBitRate 50
}
},
{
capabilityTableEntryNumber 18
capability nonStandard :
{
nonStandardIdentifier h221NonStandard :
{

```

```
t35CountryCode 181
t35Extension 0
manufacturerCode 9009
}
data '51534044'H
}
}
}
capabilityDescriptors
{
{
capabilityDescriptorNumber 0
simultaneousCapabilities
{
{
1,
2,
3,
4,
5,
6,
7,
8,
9,
10
},
{
11,
12,
13,
14,
15
},
{
16,
17
},
{
18
}
}
}
}
}
```

```
001593: Oct 4 21:02:19.140: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
bytesLeftToDecode = 0
001594: Oct 4 21:02:19.140: h245_decode_nonstd_cap: parse_tcs_nonstd failed
001595: Oct 4 21:02:19.140: h245_decode_nonstd_cap: parse_tcs_nonstd failed
001596: Oct 4 21:02:19.140: h245_decode_one_pdu: Read Pkt body: more_pdus:0
rc:0 asn_rc:0
001597: Oct 4 21:02:19.144: //281/736483928021/CCAPI/cc_api_caps_ind:
Destination Interface=0x65A8CAD4, Destination Call Id=280, Source Call Id=281,
Caps(Codec=0x1, Fax Rate=0x2, Vad=0x2,
Modem=0x0, Codec Bytes=20, Signal Type=2)
001598: Oct 4 21:02:19.144: //281/736483928021/CCAPI/cc_api_caps_ind:
Caps(Playout Mode=1, Playout Initial=60(ms), Playout Min=40(ms),
Playout Max=250(ms), Fax Nom=300(ms))
001599: Oct 4 21:02:19.144: //280/736483928021/CCAPI/cc_api_caps_ack:
```

Destination Interface=0x65D7A87C, Destination Call Id=281, Source Call Id=280,
Caps(Codec=g711ulaw(0x1), Fax Rate=FAX_RATE_VOICE(0x2), Vad=ON(0x2),
Modem=OFF(0x0), Codec Bytes=20, Signal Type=2, Seq Num Start=0)
001600: Oct 4 21:02:19.148: //280/736483928021/H221():
 dsmp_h221_decode_ccapi_audio_caps:
Audio Codec(s)=G.711 u-law,
001601: Oct 4 21:02:19.148: //280/736483928021/H221():
 dsmp_h221_decode_ccapi_video_caps:
Video Caps=H.263, Max Bit Rate=3840
16CIF=0, 4CIF=2, CIF=1, QCIF=1
format_bit_mask=0xF, cc_h263_base_caps_mask=0x204,
 cc_h263_options_mask=0x200000, ccH263Options->bit_mask=0x10000000
001602: Oct 4 21:02:19.148: //280/736483928021/H221():
 h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps

[H.320网关将TCS ACK发送到Polycom](#)

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

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

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

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

[H.320网关从Polycom接收MSD请求](#)

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网关向Polycom发送MSD ACK](#)

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网关从Polycom接收TCS ACK](#)

```
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网关从Polycom接收MSD ACK](#)

```
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网关从Polycom接收音频OLC\(G.711\)](#)

Polycom的RTCP ipaddress : 音频流的端口为14.50.5.52:49195。

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

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

```
001644: Oct 4 21:02:19.172: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
bytesLeftToDecode = 0
001645: Oct 4 21:02:19.172: h245_decode_one_pdu: Read Pkt body:
more_pdus:0 rc:0 asn_rc:0
001646: Oct 4 21:02:19.172: //281/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=281
001647: Oct 4 21:02:19.172: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001648: Oct 4 21:02:19.176: //280/736483928021/H221():
dsmp_h221_set_outgoing_requested_audio_mode:
Outgoing Audio Mode=G.711 u-law 56k
```

[H.320网关在POTS支路上设置传出音频模式](#)

```
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网关将音频OLC ACK发送到Polycom](#)

音频流的H.320网关的RTP和RTCP ipaddress:port为14.1.16.220:18718和14.1.16.220:18719。

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

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

001656: Oct 4 21:02:19.176: H245 MSC OUTGOING ENCODE BUFFER::=

22C000010480134C000E0110DC491E000E0110DC491F03000100

001657: Oct 4 21:02:19.176:

001658: Oct 4 21:02:19.204: h323chan_chn_process_read_socket

001659: Oct 4 21:02:19.204: h323chan_chn_process_read_socket:

fd=4 of type CONNECTED has data

001660: Oct 4 21:02:19.204: h323chan_chn_process_read_socket:

h323chan accepted/connected fd=4

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

bytesLeftToDecode = 63

001662: Oct 4 21:02:19.204: H245 MSC INCOMING ENCODE BUFFER::=

0300000208FE0000050BC100705001001B080000104000AF007700AF007741204000

57003B0057003B4020408011046002000E320534C02D04000448097CC0

001663: Oct 4 21:02:19.204:

[H.320网关从Polycom接收视频OLC\(H.263\)](#)

Polycom的RTCP ipaddress : 视频流的端口为14.50.5.52:49197。

[从Polycom到H.320网关的H.263视频流的RTP负载类型设置为96](#)

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

```
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 3
forwardLogicalChannelParameters
{
dataType videoData : h263VideoCapability :
```

```

{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3010
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction FALSE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
}
}

```

```

pixelAspectInformation pixelAspectCode :
{
3
}
}
}
}
}
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 2
mediaControlChannel unicastAddress : ipAddress :
{
network '0E320534'H
tsapIdentifier 49197
}
dynamicRTPPayloadType 96
mediaPacketization rtpPayloadType :
{
payloadDescriptor rfc-number : 2429
payloadType 96
}
}
}
}
}

001665: Oct 4 21:02:19.216: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
bytesLeftToDecode = 0
001666: Oct 4 21:02:19.216: h245_decode_one_pdu: Read Pkt body:
more_pdus:0 rc:0 asn_rc:0
001667: Oct 4 21:02:19.216: //281/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=281
001668: Oct 4 21:02:19.216: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
H.320网关在POTS支路上设置传出视频模式

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网关将视频OLC ACK发送到Polycom](#)

视频流的H.320网关的RTP和RTCP ipaddress:port为14.1.16.220:18078和14.1.16.220:18079。

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

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

```
001682: Oct 4 21:02:19.220: H245 MSC OUTGOING ENCODE BUFFER::=
```

```
22C000020480134C000E0110DC469E000E0110DC469F03000100
```

```
001683: Oct 4 21:02:19.220:
```

```
001684: Oct 4 21:02:19.220: H245 MSC OUTGOING PDU ::=
```

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

```
001685: Oct 4 21:02:19.224: H245 MSC OUTGOING ENCODE BUFFER::= 48000002200BC9
```

```
001686: Oct 4 21:02:19.224:
```

```
001687: Oct 4 21:02:19.224: h323chan_chn_process_read_socket
```

```
001688: Oct 4 21:02:19.224: h323chan_chn_process_read_socket:
```

```
fd=4 of type CONNECTED has data
```

```
001689: Oct 4 21:02:19.224: h323chan_chn_process_read_socket:
```

```
h323chan accepted/connected fd=4
```

```
001690: Oct 4 21:02:19.224: h245_decode_one_pdu: more_pdus = 0,
```

```
bytesLeftToDecode = 5
```

```
001691: Oct 4 21:02:19.224: H245 MSC INCOMING ENCODE BUFFER::= 6900000100
```

```
001692: Oct 4 21:02:19.224:
```

```
001693: Oct 4 21:02:19.224: H245 MSC INCOMING PDU ::=
```

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

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

H.320网关向PSTN中的远程视频终端发送音频指示活动控制和信息信号

H.320网关将音频指示活动控制和信息信号发送到PSTN中的远程视频终端以激活音频信道。

```
//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中的视频终端设置传输速率和音频模式

```
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网关将音频OLC\(G.711\)发送到Polycom](#)

音频流的H.320网关的RTCP ipaddress:port为14.1.16.220:18719。

```
001825: Oct 4 21:02:24.036: H245 MSC OUTGOING PDU ::=
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 1
forwardLogicalChannelParameters
{
dataType audioData : g711Ulaw64k : 20
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 1
mediaControlChannel unicastAddress : ipAddress :
{
network '0E0110DC'H
tsapIdentifier 18719
}
silenceSuppression FALSE
}
}
}
001826: Oct 4 21:02:24.040: H245 MSC OUTGOING ENCODE BUFFER::=
0300000000C6013800B050001000E0110DC491F00
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网关从Polycom接收音频OLC ACK](#)

Polycom的RTP和RTCP ipaddress : 音频流的端口为14.50.5.52:49194和14.50.5.52:49195。

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

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

001835: Oct 4 21:02:24.052: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
bytesLeftToDecode = 0

001836: Oct 4 21:02:24.052: h245_decode_one_pdu: Read Pkt body:
more_pdus:0 rc:0 asn_rc:0

001837: Oct 4 21:02:24.056: //281/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=281

001838: Oct 4 21:02:24.056: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly

001839: Oct 4 21:02:24.056: RAS OUTGOING PDU ::=

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

001840: Oct 4 21:02:24.056: RAS OUTGOING ENCODE BUFFER::=
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中的视频终端设置视频模式

```
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网关从PSTN中的远程视频终端接收音频指示活动控制和信息信号

H.320网关从PSTN中的远程视频终端接收音频指示活动控制和信息信号以激活音频信道。

```
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_sqelch:
H221 Sqelch Map=0x0
001878: Oct 4 21:02:25.036: //280/736483928021/H221():
    dsmp_h221_check_for_bas_sqelch:
H221 Sqelch 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网关将视频OLC\(H.263\)发送到Polycom](#)

H.320网关的RTCP ipaddress : 视频流的端口为14.1.16.220:18079。

[从H.320网关到Polycom的H.263视频流 RTP负载类型设置为110](#)

```
001886: Oct 4 21:02:25.040: H245 MSC OUTGOING PDU ::=
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 2
forwardLogicalChannelParameters
{
dataType videoData : h263VideoCapability :
{
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3017
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
```

```

slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 2
mediaControlChannel unicastAddress : ipAddress :
{
network '0E0110DC'H
tsapIdentifier 18079
}
dynamicRTPPayloadType 110
mediaPacketization rtpPayloadType :
{
payloadDescriptor rfc-number : 2429
payloadType 110
}
}
}

```

```

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

```

```
001888: Oct 4 21:02:25.048:
```

```
001889: Oct 4 21:02:25.048: H245 MSC OUTGOING PDU ::=
```

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

001890: Oct 4 21:02:25.048: H245 MSC OUTGOING ENCODE BUFFER::= 6900000000

001891: Oct 4 21:02:25.052:

001892: Oct 4 21:02:25.068: h323chan_chn_process_read_socket

001893: Oct 4 21:02:25.068: h323chan_chn_process_read_socket:
fd=4 of type CONNECTED has data

001894: Oct 4 21:02:25.068: h323chan_chn_process_read_socket:
h323chan accepted/connected fd=4

001895: Oct 4 21:02:25.068: h245_decode_one_pdu: more_pdus = 0,
bytesLeftToDecode = 23

001896: Oct 4 21:02:25.068: H245 MSC INCOMING ENCODE BUFFER::=
22C000010480101C02000E320534C02C000E320534C02D

001897: Oct 4 21:02:25.068:

[H.320网关从Polycom接收视频OLC确认](#)

Polycom的RTP和RTCP ipaddress : 视频流的端口为14.50.5.52:49196和14.50.5.52:49197。

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

```
value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :
```

```
{
forwardLogicalChannelNumber 2
forwardMultiplexAckParameters h2250LogicalChannelAckParameters :
{
sessionID 2
mediaChannel unicastAddress : ipAddress :
{
network '0E320534'H
tsapIdentifier 49196
}
mediaControlChannel unicastAddress : ipAddress :
{
network '0E320534'H
tsapIdentifier 49197
}
}
}
```

001899: Oct 4 21:02:25.072: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
bytesLeftToDecode = 0

001900: Oct 4 21:02:25.072: h245_decode_one_pdu: Read Pkt body:
more_pdus:0 rc:0 asn_rc:0

001901: Oct 4 21:02:25.072: //281/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=281

001902: Oct 4 21:02:25.072: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly

001903: Oct 4 21:02:25.072: //280/736483928021/H221():
dsmp_h221_populate_config_rtp_params:

Direction=Incoming, Type=Video

001904: Oct 4 21:02:25.072: //280/736483928021/H221():
dsmp_h221_populate_config_rtp_params:

Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE

001905: Oct 4 21:02:25.072: //280/736483928021/H221():
dsmp_h221_populate_config_rtp_params:

```
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x6E
001906: Oct 4 21:02:25.072: //280/736483928021/H221():
    dsmp_h221_populate_config_rtp_params:
Direction=Outgoing, Type=Video
001907: Oct 4 21:02:25.072: //280/736483928021/H221():
    dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001908: Oct 4 21:02:25.072: //280/736483928021/H221():
    dsmp_h221_populate_config_rtp_params:
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x60
001909: Oct 4 21:02:25.072: h323chan_chn_process_read_socket
001910: Oct 4 21:02:25.072: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
001911: Oct 4 21:02:25.076: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

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

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

001916: Oct 4 21:02:25.076: h245_decode_one_pdu:
    H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0
001917: Oct 4 21:02:25.076: h245_decode_one_pdu:
    Read Pkt body: more_pdus:0 rc:0 asn_rc:0
001918: Oct 4 21:02:25.076: //281/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=281
001919: Oct 4 21:02:25.076: //281/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001920: Oct 4 21:02:25.076: h323chan_chn_process_read_socket
001921: Oct 4 21:02:25.076: h323chan_chn_process_read_socket:
    fd=4 of type CONNECTED has data
001922: Oct 4 21:02:25.076: h323chan_chn_process_read_socket:
    h323chan accepted/connected fd=4

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

[H.320网关从Polycom接收视频快速更新\(VFU\)图片请求](#)

在此输出中，H.320网关从Polycom接收VFU图片请求，该请求表示它已准备好接收视频流。

```
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网关将视频快速更新画面控制和信息信号发送到PSTN中的视频终端](#)

```
//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网关从Polycom接收流量控制命令](#)

```
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网关向PSTN中的视频终端发送流量控制命令](#)

```
//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网关向Polycom发送流量控制命令

H.320网关从PSTN中的视频终端接收流量控制命令

```
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网关向Polycom发送流量控制命令

```
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中的视频终端断开视频呼叫

```
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/xxxxxxxxxxxx/CCAPI/cc_api_bridge_drop_done:
Conference Id=0x12, Source Interface=0x65A8CAD4, Source Call Id=280,
Destination Call Id=281, Disposition=0x0, Tag=0x0

002162: Oct 4 21:03:14.247: //281/xxxxxxxxxxxx/CCAPI/cc_api_bridge_drop_done:
Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281,
Destination Call Id=280, Disposition=0x0, Tag=0x0

002163: Oct 4 21:03:14.247: //280/736483928021/CCAPI/cc_generic_bridge_done:
Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281,
Destination Call Id=280, Disposition=0x0, Tag=0x0

002164: Oct 4 21:03:14.247: ISDN Se2/1:23 Q931:
RX <- RELEASE_COMP pd = 8 callref = 0x00A3

002165: Oct 4 21:03:14.255: ISDN Se2/1:23 Q931:
RX <- RELEASE_COMP pd = 8 callref = 0x00A4

002166: Oct 4 21:03:14.255: ISDN Se2/1:23 Q931:
RX <- RELEASE_COMP pd = 8 callref = 0x009F

002167: Oct 4 21:03:14.255: //280/736483928021/CCAPI/ccCallDisconnect:

Cause Value=31, Tag=0x0, Call Entry(Previous Disconnect Cause=0,
Disconnect Cause=31)
002168: Oct 4 21:03:14.255: //280/736483928021/CCAPI/ccCallDisconnect:
Cause Value=31, Call Entry(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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/CCAPI/cc_free_feature_vsa:

002196: Oct 4 21:03:14.263: vsaccount 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网关清除IP支路上的呼叫](#)

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网关将DRQ发送到网守](#)

```

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
```

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