

# Video-Anrufablauf des H.320-Gateway zu H.323-Gatekeeper

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## **[Einführung](#)**

In diesem Dokument wird der Anrufablauf eines einfachen H.320-Gateways zum H.323-Gatekeeper-Videoanruf beschrieben. H.320 ist eine ITU-T-Empfehlung für Multimedia-Daten-, Sprach- und Videoanrufe über ISDN-Netzwerke.

H.320 besteht aus folgenden Protokollen:

- H.221 - Definiert die Rahmenstruktur für audiovisuelle Teleservices über 1 oder mehr ISDN B-Kanäle.
- H.230: Definiert die Steuerungs- und Informationssignale, die in einem audiovisuellen System verwendet werden.
- H.242 - Definiert Signalisierungsverfahren, wie die Modeninitialisierung, den Austausch von Funktionen und das Modus-Switching, die für die Einrichtung eines Multimedia-Anrufs erforderlich sind.

Jeder H.320-Videoanruf besteht aus einem primären Anruf und 0 oder mehr sekundären Anrufen. Ein Videoanruf mit 128.000 U/min besteht beispielsweise aus einem primären und einem sekundären Anruf.

# Voraussetzungen

## Anforderungen

Für dieses Dokument bestehen keine speziellen Anforderungen.

## Verwendete Komponenten

Die Informationen in diesem Dokument basieren auf den folgenden Software- und Hardwareversionen:

- H.320-Gateway: Cisco 3725 mit NM-HDV2 (5510 DSP)
- H.323 Gatekeeper: Cisco 3660
- H.323-Videoterminal: Polycom V500
- Bandbreite = 384.000

Die Informationen in diesem Dokument wurden von den Geräten in einer bestimmten Laborumgebung erstellt. Alle in diesem Dokument verwendeten Geräte haben mit einer leeren (Standard-)Konfiguration begonnen. Wenn Ihr Netzwerk in Betrieb ist, stellen Sie sicher, dass Sie die potenziellen Auswirkungen eines Befehls verstehen.

## Konventionen

Informationen zu Dokumentkonventionen finden Sie in den [Cisco Technical Tips Conventions](#).

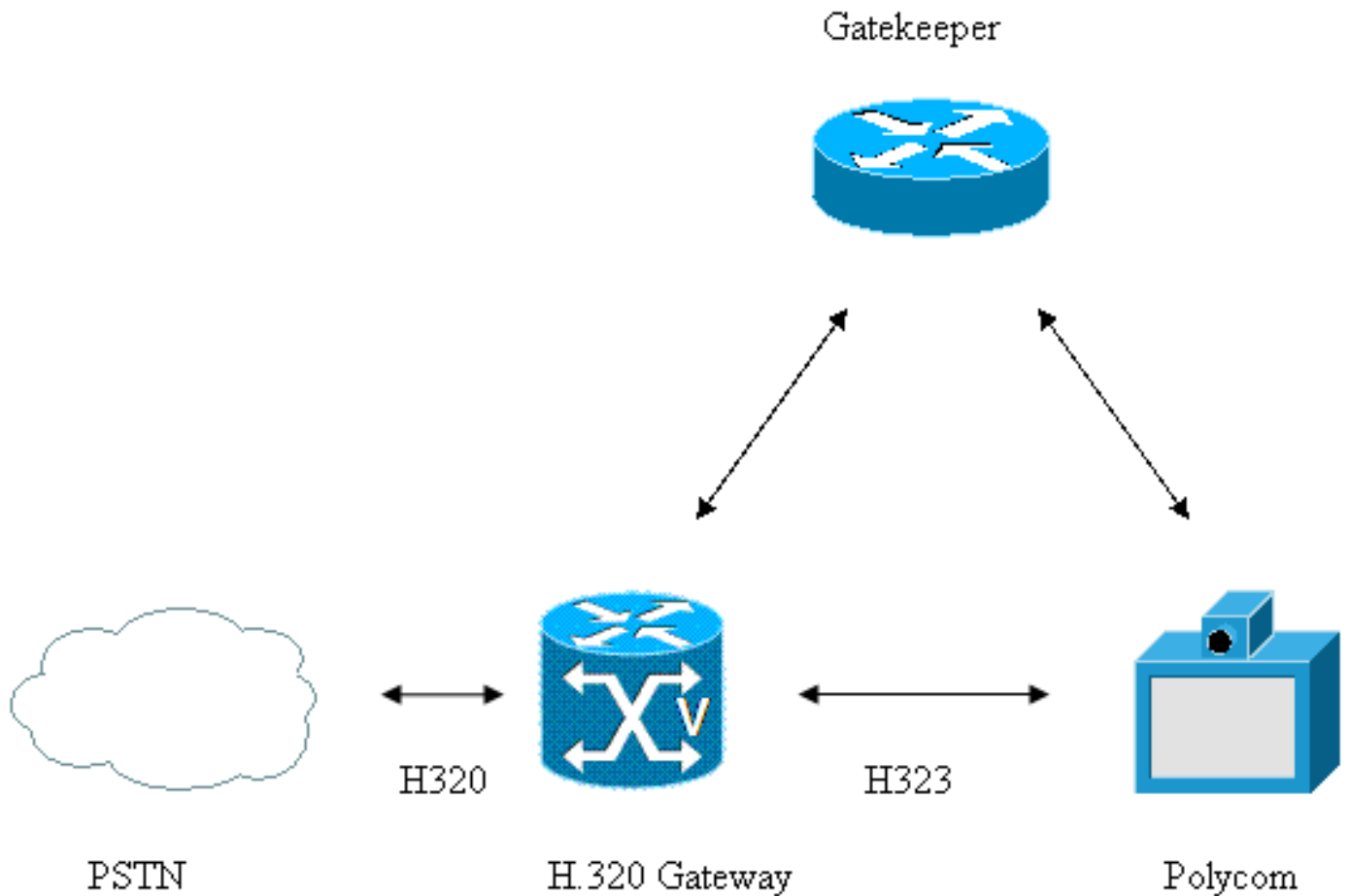
## Konfigurieren

In diesem Abschnitt erhalten Sie Informationen zum Konfigurieren der in diesem Dokument beschriebenen Funktionen.

**Hinweis:** Verwenden Sie das [Command Lookup Tool](#) (nur [registrierte](#) Kunden), um weitere Informationen zu den in diesem Abschnitt verwendeten Befehlen zu erhalten.

## Netzwerkdiagramm

In diesem Dokument wird die folgende Netzwerkeinrichtung verwendet:



## Wählplan

In diesem Dokument wird dieser Wählplan verwendet:

- Video-Endpunkt im PSTN: 919-392-6000  
Primäre angerufene H.320-Nummer: 919-392-6000  
Sekundäre angerufene H.320-Nummern: 919-392-6001 bis 919-392-6005
- Polycom: 919-991-5600  
Primäre angerufene H.320-Nummer: 919-991-5600  
Sekundäre angerufene H.320-Nummern: 919-991-5601 bis 919-991-5605

## Konfiguration

In diesem Dokument wird diese Konfiguration verwendet:

### Device H.320 Gateway-Konfiguration - Name 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
```

## Bandbreitennutzung

Der in diesem Dokument beschriebene Videoanruf verwendet 384 KB Bandbreite.

Bandbreitennutzung des Videoanrufs:

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

## Beispiel für einen Anrufablauf

In diesem Abschnitt wird der Anruffluss beschrieben, der aus diesem Konfigurationsbeispiel resultiert.

1. Ein ISDN-Anruf vom PSTN kommt am H.320-Gateway mit 919-991-5600 an, da die angerufene Nummer, die Trägerfunktion (Träger-Cap) auf *Unrestricted Digital across B-channel=1* festgelegt ist.
2. Das H.320-Gateway führt eine eingehende DFÜ-Peer-Suche durch. Da die Trägerkappe auf "Unrestricted digital" gesetzt ist, sucht sie zunächst nach H.320-POTS-DFÜ-Peers (DFÜ-Peers, die mit einem auf *Video* festgelegten Informationstyp konfiguriert sind) und vergleicht den Peer 9190. Der erste Anruf wird als primärer Anruf bezeichnet.
3. Das H.320-Gateway führt eine ausgehende DFÜ-Peer-Suche durch und leitet den Anruf über den DFÜ-Peer 9910 weiter.
4. Das H.320-Gateway sendet eine Zugangsbestätigung (ACF) an den Gatekeeper und erhält eine Zugangsbestätigung (ACF).
5. Das H.320-Gateway sendet eine H.225-SETUP-Nachricht an Polycom.
6. Das H.320-Gateway empfängt eine H.225 CONNECT-Nachricht von Polycom, und der Videoanruf wird auf der IP-Leitung verbunden.
7. Das H.320-Gateway sendet eine ISDN CONNECT-Nachricht an das PSTN, und der primäre Anruf wird verbunden.
8. Das H.320-Gateway sendet anfängliche H.221-Funktionen über den POTS-Abschnitt hinweg.

9. Die H.221-Frame-Synchronisierung wird über den B-Kanal = 1 hergestellt (auch als erster Kanal oder primärer Anruf bezeichnet).
10. Nachdem die Frame-Synchronisierung eingerichtet wurde, leitet Polycom nach dem anderen fünf sekundäre Anrufe ein. Die Frame-Synchronisierung erfolgt über die B-Kanäle 2 bis 6 (auch als zusätzliche Kanäle oder sekundäre Anrufe bezeichnet).
11. Das H.320-Gateway ordnet eingehende sekundäre Anrufe im Bereich von 919-991-5601 bis 919-991-5605 dem primären Anruf (Schritt 2) dem Befehl **voice class called-number inbound 1 zu**, der wie in der Konfiguration gezeigt definiert ist.
12. Das H.320-Gateway und Polycom tauschen Audio- und Videofunktionen aus und offene logische Kanäle (OLCs) für Audio- und Video-Streams über IP-Strecke und POTS-Strecke.

## Kapazitätsplanung

Bevor Sie Videodatenverkehr in einem Netzwerk platzieren, stellen Sie sicher, dass für alle erforderlichen Anwendungen eine angemessene Bandbreite vorhanden ist. Zunächst müssen die Bandbreitenanforderungen für die einzelnen Hauptanwendungen (z. B. Sprache, Video und Daten) berechnet werden. Die Summe stellt die erforderliche Mindestbandbreite für eine bestimmte Verbindung dar. Diese Menge sollte nicht mehr als 75 Prozent der gesamten verfügbaren Bandbreite für diese Verbindung beanspruchen. Diese 75 %-Regel geht davon aus, dass für den Overhead-Datenverkehr eine gewisse Bandbreite erforderlich ist. Beispiele für Overhead-Datenverkehr sind Routing-Protokoll-Updates und Layer-2-Keepalives sowie zusätzliche Anwendungen wie E-Mail- und HTTP-Datenverkehr. Sprach- und Videodatenverkehr belegen maximal 33 % der Verbindungskapazität

### H.323-Video

Laut H.323-Standard sind Videofunktionen in H.323-Terminals optional. Wenn Sie jedoch die H.323-Terminals implementieren, müssen die Terminals den H.261-Codec unterstützen, mit optionaler Unterstützung für den H.263-Standard.

- H.261 - Videocodec für audiovisuelle Dienste mit einem Datenvolumen von 64 Kbit/s. H.261-konforme Geräte kodieren Initial Frames vollständig. Die Geräte codieren dann nur die Unterschiede zwischen den ersten und nachfolgenden Frames für minimale Paketübertragungen. Optionale Bewegungskompensation verbessert die Bildqualität.
- H.263 - Videocodec für herkömmliche Videotelefondienste (POTS) Der H.263-Standard ist ein abwärtskompatibles Update zum H.261-Standard. H.263 verbessert die Bildqualität mit einer halbpixeligen Bildschutzwahl, die eine Anforderung darstellt.

## Überprüfen

In diesem Abschnitt überprüfen Sie, ob Ihre Konfiguration ordnungsgemäß funktioniert.

Das [Output Interpreter Tool](#) (nur [registrierte](#) Kunden) (OIT) unterstützt bestimmte **show**-Befehle. Verwenden Sie das OIT, um eine Analyse der **Ausgabe des Befehls show anzuzeigen**.

- **Zusammenfassung der Sprachanrufe anzeigen**

```
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

- **Anzeige der aktiven Videoanrufe** In dieser Ausgabe werden die Rx/Tx-Zähler für einen Videoanruf nur für den primären Anruf gemeldet und nicht für sekundäre Anrufe gemeldet.

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

• **Aktives Videosignal anzeigenPOTS LEG - Primärer Anruf**

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 - Sekundärer Anruf**

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
```

## Fehlerbehebung

Dieser Abschnitt enthält Informationen zur Fehlerbehebung in Ihrer Konfiguration.

### Debugbefehle

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

**Hinweis:** Beachten Sie [vor der](#) Verwendung von **Debug**-Befehlen die [Informationen](#) zu [Debug-Befehlen](#).

### Debugausgabe

Dieser Abschnitt enthält Debug-Ausgaben für diesen Beispielaufruffluss:

1. [Eingehendes SETUP mit angerufener Nummer = 9199915600 und Träger-Cap auf](#)

"Unrestricted Digital" (Uneingeschränkte digitale Übertragung)

2. Eingehender DFÜ-Peer 9190 ist zugeordnet
3. Ausgehender DFÜ-Peer 9910 ist zugeordnet
4. H.320-Gateway sendet ARQ-Anfrage an Gatekeeper
5. H.320-Gateway empfängt ACF-Antwort von Gatekeeper
6. H.320-Gateway sendet H.225-SETUP-Nachricht an Polycom
7. Anruf erhält Verbindung am IP-Leg
8. Das H.320-Gateway sendet CONNECT auf der ISDN-Seite und verbindet Call Gets.
9. H.320-Gateway sendet anfänglichen Funktionssatz
10. Die Frame-Synchronisierung wird für B-Channel 1 eingerichtet.
11. H.320-Gateway empfängt ersten sekundären Anruf
12. Verbindung der ersten sekundären Anrufe
13. Frame-Synchronisierung wird auf B-Channel 2 eingerichtet.
14. H.320-Gateway empfängt zweiten sekundären Anruf
15. Zweite sekundäre Anrufübernahme wird verbunden
16. Das H.320-Gateway empfängt den BAS-Befehl vom Video-Endpunkt im PSTN.
17. Frame-Synchronisierung wird auf B-Channel 3 eingerichtet.
18. H.320-Gateway empfängt dritten sekundären Anruf
19. Dritte sekundäre Anrufübernahme wird verbunden
20. Frame-Synchronisierung wird auf B-Channel 4 eingerichtet.
21. H.320-Gateway empfängt vierten sekundären Anruf
22. Vierter sekundärer Anruf erhält Verbindung
23. Frame-Synchronisierung wird auf B-Channel 4 eingerichtet.
24. H.320-Gateway empfängt den fünften sekundären Anruf
25. Fünfte sekundäre Anrufe werden verbunden
26. Frame-Synchronisierung wird auf B-Channel 6 eingerichtet
27. H.320-Gateway empfängt Funktionssatz vom Video-Endpunkt im PSTN
28. Das H.320-Gateway sendet den Funktionssatz an den Video-Endpunkt im PSTN.
29. Das H.320-Gateway kündigt dem Polycom über das IP-Leg Audio- (G711ulaw)- und Videofunktionen (H.263) über TCS an.
30. H.320-Gateway sendet MSD-Anforderung an Polycom
31. Das H.320-Gateway empfängt das Audio- (G.722, G.728, G.711) und Videofunktionen von Polycom (H.263).
32. H.320-Gateway sendet TCS ACK an Polycom
33. H.320-Gateway empfängt MSD-Anforderung von Polycom
34. H.320-Gateway sendet MSD ACK an Polycom
35. H.320-Gateway empfängt TCS ACK von Polycom
36. H.320-Gateway empfängt MSD ACK von Polycom
37. H.320-Gateway empfängt Audio-OLC (G.711) von Polycom
38. Das H.320-Gateway stellt den ausgehenden Audiomodus über den POTS-Leg ein.
39. H.320-Gateway sendet Audio-OLC-ACK an Polycom
40. H.320-Gateway empfängt Video-OLC (H.263) von Polycom
41. Der RTP-Payload-Typ für den H.263-Video-Stream vom Polycom zum H.320-Gateway ist auf 96 eingestellt.
42. H.320-Gateway konfiguriert den ausgehenden Videomodus über die POTS-Schicht
43. H.320-Gateway sendet Video-OLC zurück an Polycom
44. Das H.320-Gateway sendet Audio Indicate Active Control and Information Signal an den Remote-Videoendpunkt im PSTN.

45. [Video-Endpunkt im PSTN legt die Übertragungsrate und den Audio-Modus fest](#)
46. [H.320-Gateway sendet Audio-OLC \(G.711\) an Polycom](#)
47. [H.320-Gateway empfängt Audio-OLC-ACK von Polycom](#)
48. [Video-Endpunkt im PSTN legt den Bildmodus fest](#)
49. [Das H.320-Gateway empfängt Audio Indicate Active Control and Information Signal vom Remote-Videoendpunkt im PSTN.](#)
50. [H.320-Gateway sendet Video-OLC \(H.263\) an Polycom](#)
51. [Der RTP-Payload-Typ für den H.263-Video-Stream vom H.320-Gateway zu Polycom ist auf 110 eingestellt.](#)
52. [H.320 Gateway empfängt Video-OLC-ACK von Polycom](#)
53. [H.320-Gateway empfängt Video Fast Update \(VFU\)-Bildanforderung von Polycom](#)
54. [Das H.320-Gateway sendet Video Fast Update Picture Control and Information Signal an den Video-Endpunkt im PSTN.](#)
55. [Das H.320-Gateway erhält Flow Control Command von Polycom](#)
56. [Das H.320-Gateway übermittelt den Flow Control Command an den Video-Endpunkt im PSTN.](#)
57. [Das H.320-Gateway sendet Flow Control Command an Polycom](#)
58. [Das H.320-Gateway erhält Flow Control Command vom Video-Endpunkt im PSTN.](#)
59. [Das H.320-Gateway sendet Flow Control Command an Polycom](#)
60. [Video-Endpunkt im PSTN trennt Videoanruf](#)
61. [H.320-Gateway löscht Anrufe am IP-Leg](#)
62. [H.320-Gateway sendet DRQ an Gatekeeper](#)

## Eingehendes SETUP mit angerufener Nummer = 9199915600 und Träger-Cap auf "Unrestricted Digital" (Uneingeschränkte digitale Übertragung)

Dies ist der primäre H.320-Anruf.

```

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=FFFFFFF  
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

## Eingehender DFÜ-Peer 9190 ist zugeordnet

```
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

### [Ausgehender DFÜ-Peer 9910 ist zugeordnet](#)

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-Gateway sendet ARQ-Anfrage an Gatekeeper

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

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

001331: Oct 4 21:02:16.772: H225 NONSTD OUTGOING ENCODE BUFFER::=  
80000010A801820C144953444E20322F313A323380A300A049414D2C0D0A50524  
E2C6973646E2A2C2C4E492A2A2A2C0D0A5553492C726174652C632C642C632C310  
D0A544D522C30310D0A43504E2C30342C2C312C393139393931353630300D0A434  
74E2C30342C2C312C792C332C393139333932363030300D0A4350432C30390D0A46  
43492C2C2C2C2C2C792C0D0A4743492C3733363438333932353332323131646  
2383032313030306432386433643763300D0A0D0A

001332: Oct 4 21:02:16.772:

001333: Oct 4 21:02:16.772: RAS OUTGOING PDU ::=

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





```

}
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-Gateway sendet H.225-SETUP-Nachricht an Polycom](#)

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

value H323\_UserInformation ::=

```
{
```

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

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

```
h4501SupplementaryService
{
'60000110002C0001550443000000'H
}
h245Tunneling FALSE
nonStandardControl
{
{
nonStandardIdentifier h221NonStandard :
{
t35CountryCode 181
t35Extension 0
manufacturerCode 18
}
data '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:

## Anruf erhält Verbindung am IP-Leg

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)
```

### Das H.320-Gateway sendet CONNECT auf der ISDN-Seite und verbindet Call Gets.

Dies ist der primäre Anruf.

```
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-Gateway sendet anfänglichen Funktionssatz

```
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
```

### Die Frame-Synchronisierung wird für B-Channel 1 eingerichtet.

```
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-Gateway empfängt ersten sekundären Anruf

```
001419: Oct 4 21:02:17.056: ISDN Se2/1:23 Q931:
RX <- SETUP pd = 8 callref = 0x00A0
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98382
Exclusive, Channel 2
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915601'
Plan:ISDN, Type:National
001420: Oct 4 21:02:17.060:
//-1/7392E89B8022/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
Presentation=Allowed),
Called Number=9199915601(TON=National, NPI=ISDN),
```

```
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001421: Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:
001422: Oct 4 21:02:17.060: :cc_get_feature_vsa malloc success
001423: Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:
001424: Oct 4 21:02:17.060: cc_get_feature_vsa count is 3
001425: Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:
001426: Oct 4 21:02:17.060: :FEATURE_VSA attributes are: feature_name:0,
    fearture_time:1710267192,feature_id:80
001427: Oct 4 21:02:17.060: //280/736483928021/H221():
    h221_set_outgoing_bchnl_map:
B-Channel=2, Q.931 Connect Indicated=TRUE
001428: Oct 4 21:02:17.060: //280/736483928021/H221():
    h221_set_outgoing_bchnl_map:
B-Channel(s)=1, Connected=0, Not InSync=0, InSync=1
001429: Oct 4 21:02:17.060: //282/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001430: Oct 4 21:02:17.060: //282/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, 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
```

### Verbindung der ersten sekundären Anrufe

```
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
```

### Frame-Synchronisierung wird auf B-Channel 2 eingerichtet.

```
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-Gateway empfängt zweiten sekundären Anruf

```
001439: Oct 4 21:02:17.376: ISDN Se2/1:23 Q931: RX <- SETUP pd =
    8 callref = 0x00A1
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
```

```
Channel ID i = 0xA98383
Exclusive, Channel 3
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915602'
Plan:ISDN, Type:National
001440: Oct 4 21:02:17.380:
    //-1/73C3BCD78023/CCAPI/cc_api_create_cc_entry_common:
Interface=0x65A8CAD4, Call Id=-1,
Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
    Presentation=Allowed),
Called Number=9199915602(TON=National, NPI=ISDN),
FinalDestinationFlag=FALSE, Incoming Dial-peer=9190
001441: Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

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

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

001446: Oct 4 21:02:17.380: :FEATURE_VSA attributes are: feature_name:0,
    fearture_time:1710266760,feature_id:81
001447: Oct 4 21:02:17.380: //280/736483928021/H221():
    h221_set_outgoing_bchnl_map:
B-Channel=3, Q.931 Connect Indicated=TRUE
001448: Oct 4 21:02:17.380: //280/736483928021/H221():
    h221_set_outgoing_bchnl_map:
B-Channel(s)=2, Connected=1, Not InSync=0, InSync=2
001449: Oct 4 21:02:17.380: //283/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001450: Oct 4 21:02:17.380: //283/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, 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
```

## [Zweite sekundäre Anrufübernahme wird verbunden](#)

```
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
```

## [Das H.320-Gateway empfängt den BAS-Befehl vom Video-Endpunkt im PSTN.](#)

Das H.320-Gateway empfängt den BAS-Befehl vom Video-Endpunkt im PSTN. Dies bedeutet, dass es H.263-Funktionen akzeptieren kann.

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

### Frame-Synchronisierung wird auf B-Channel 3 eingerichtet.

```
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-Gateway empfängt dritten sekundären Anruf

```
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
```

### Dritte sekundäre Anrufübernahme wird verbunden

```
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
```

### Frame-Synchronisierung wird auf B-Channel 4 eingerichtet.

```
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-Gateway empfängt vierten sekundären Anruf

```
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

## Vierter sekundärer Anruf erhält Verbindung

001500: Oct 4 21:02:18.024: ISDN Se2/1:23 Q931: TX ->  
CONNECT pd = 8 callref = 0x80A3  
001501: Oct 4 21:02:18.032: //280/736483928021/H221():  
dsmp\_h221\_update\_dsp\_timestamp:  
BAS Message Timestamp=1000(ms), Last Squelch Timestamp=0(ms)  
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE  
001502: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_message\_entry:  
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0  
  
001503: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Cisco GW non-standard Indication Received, Command=Cisco H.221  
Version Indication, Version=(1.0)  
001504: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Cisco GW non-standard Indication Received, Command=Caps From H.320  
Peer Endpoint Present  
001505: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Cisco GW non-standard Indication Received, Command=H.263 Non-Standard  
Caps, Custom Picture Number=0  
001506: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Standard MPI Received=TRUE, Standard MPI=2  
001507: Oct 4 21:02:18.036: //280/736483928021/H221():



h221\_incoming\_ns\_cap\_comm:  
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)  
001508: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Cisco GW non-standard Indication Received, Command=H.263 Non-Standard  
Caps, Custom Picture Number=1  
001509: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Standard MPI Received=TRUE, Standard MPI=1  
001510: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3)  
001511: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_ns\_cap\_comm:  
Cisco GW non-standard Indication Received, Command=Cisco  
H.221 Minimum Bchannel Caps Indication, B-channel Caps=1  
001512: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_unsupported\_other\_mode:  
BAS=0x60  
001513: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_unsupported\_other\_mode:  
BAS=0x70  
001514: Oct 4 21:02:18.036: //280/736483928021/H221():  
h221\_incoming\_handle\_cap\_mark:  
Audio Codec(s)=0x0, H.261 Cap=FALSE, H.263 Cap=TRUE,  
H.264 Cap=FALSE, B-channel Caps=6  
001515: Oct 4 21:02:18.036: //280/736483928021/H221():  
dsmp\_h221\_check\_for\_bas\_sqelch:  
H221 Squelch Map=0x0  
001516: Oct 4 21:02:18.036: //280/736483928021/H221():  
dsmp\_h221\_check\_for\_bas\_sqelch:  
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

### Frame-Synchronisierung wird auf B-Channel 4 eingerichtet.

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-Gateway empfängt den fünften sekundären Anruf

```
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,feature_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
```

## [Fünfte sekundäre Anrufe werden verbunden](#)

```
001541: Oct 4 21:02:18.344: ISDN Se2/1:23 Q931:
      TX -> CONNECT pd = 8 callref = 0x80A4
001542: Oct 4 21:02:18.352: ISDN Se2/1:23 Q931:
      RX <- CONNECT_ACK pd = 8 callref = 0x00A4
001543: Oct 4 21:02:18.356: %ISDN-6-CONNECT:
      Interface Serial2/1:5 is now connected to 9193926000 N/A
```

```
001544: Oct 4 21:02:18.532: //280/736483928021/H221():
    dsmp_h221_update_dsp_timestamp:
BAS Message Timestamp=1500(ms), Last Squelch Timestamp=0(ms)
Last Fast Video Update Timestamp=0(ms), Update Bas Timestamp=FALSE
001545: Oct 4 21:02:18.536: //280/736483928021/H221():
    h221_incoming_message_entry:
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
001546: Oct 4 21:02:18.536: //280/736483928021/H221():
    h221_incoming_handle_mbe:
MBE Received=H.263, Length=18
001547: Oct 4 21:02:18.536: //280/736483928021/H221():
    h242_incoming_handle_mbe_h263_caps:
Identical H.263 Caps Detected, skip parsing
001548: Oct 4 21:02:18.536: //280/736483928021/H221():
    h221_incoming_message_entry:
Return Code=H221 Partial Message
001549: Oct 4 21:02:18.536: //280/736483928021/H221():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001550: Oct 4 21:02:18.536: //280/736483928021/H221():
    dsmp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
```

## Frame-Synchronisierung wird auf B-Channel 6 eingerichtet

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

## H.320-Gateway empfängt Funktionssatz vom Video-Endpunkt im PSTN

Der Funktionssatz gibt das Minimum Picture Interval (MPI), das Seitenverhältnis, den Audio-Codec, den Video-Codec und die Anzahl der vom Videoendpunkt unterstützten Kanäle an.

```
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_sqelch:
H221 Sqelch Map=0x0
001568: Oct 4 21:02:19.036: //280/736483928021/H221():
    dsmp_h221_check_for_bas_sqelch:
H221 Sqelch Map=0x0
```

### [Das H.320-Gateway sendet den Funktionssatz an den Video-Endpunkt im PSTN.](#)

```
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
```

### [Das H.320-Gateway kündigt dem Polycom über das IP-Leg Audio- \(G711ulaw\)- und Videofunktionen \(H.263\) über TCS an.](#)

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

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

```

decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
h261aVideoPacketization FALSE
rtpPayloadType
{

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

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

```

```
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectRatioInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectRatioInformation 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-Gateway sendet MSD-Anforderung an Polycom](#)

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

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

```
001581: Oct 4 21:02:19.064: H245 MSC OUTGOING ENCODE BUFFER::= 01003C40107F
```

```
001582: Oct 4 21:02:19.064:
```

```
001583: Oct 4 21:02:19.064: h323chan_chn_process_read_socket
```

```
001584: Oct 4 21:02:19.064: h323chan_chn_process_read_socket:
```

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

```
001585: Oct 4 21:02:19.064: h323chan_chn_process_read_socket:
```

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

```
001586: Oct 4 21:02:19.088: h323chan_chn_process_read_socket
```

```
001587: Oct 4 21:02:19.088: h323chan_chn_process_read_socket:
```

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

```
001588: Oct 4 21:02:19.088: h323chan_chn_process_read_socket:
```

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

```
001589: Oct 4 21:02:19.088: h245_decode_one_pdu: more_pdus = 0,
```

```
bytesLeftToDecode = 433
```

```
001590: Oct 4 21:02:19.088: H245 MSC INCOMING ENCODE BUFFER::=
```

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

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

### [Das H.320-Gateway empfängt das Audio- \(G.722, G.728, G.711\) und Videofunktionen von Polycom \(H.263\).](#)

```
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-Gateway sendet TCS ACK an 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-Gateway empfängt MSD-Anforderung von Polycom](#)

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

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

001613: Oct 4 21:02:19.152: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
      bytesLeftToDecode = 0
```

001614: Oct 4 21:02:19.152: h245\_decode\_one\_pdu: Read Pkt body:  
more\_pdus:0 rc:0 asn\_rc:0

### [H.320-Gateway sendet MSD ACK an Polycom](#)

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

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

001616: Oct 4 21:02:19.152: H245 MSC OUTGOING ENCODE BUFFER ::= 20A0

001617: Oct 4 21:02:19.152:

001618: Oct 4 21:02:19.152: h323chan\_chn\_process\_read\_socket

001619: Oct 4 21:02:19.152: h323chan\_chn\_process\_read\_socket:

fd=4 of type CONNECTED has data

001620: Oct 4 21:02:19.152: h323chan\_chn\_process\_read\_socket:

h323chan accepted/connected fd=4

001621: Oct 4 21:02:19.152: h245\_decode\_one\_pdu: more\_pdus = 0,

bytesLeftToDecode = 3

001622: Oct 4 21:02:19.152: H245 MSC INCOMING ENCODE BUFFER ::= 218001

001623: Oct 4 21:02:19.152:

### [H.320-Gateway empfängt TCS ACK von Polycom](#)

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

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

001625: Oct 4 21:02:19.152: h245\_decode\_one\_pdu: H245ASNDecodePdu rc = 0,

bytesLeftToDecode = 0

001626: Oct 4 21:02:19.152: h245\_decode\_one\_pdu: Read Pkt body:

more\_pdus:0 rc:0 asn\_rc:0

001627: Oct 4 21:02:19.152: //281/736483928021/CCAPI/cc\_api\_caps\_ack:

Destination Interface=0x65A8CAD4, Destination Call Id=280, Source Call Id=281,

Caps(Codec=gsmeifr(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-Gateway empfängt MSD ACK von Polycom](#)

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

```
    masterSlaveDeterminationAck :
{
decision master : NULL
}

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

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

### [H.320-Gateway empfängt Audio-OLC \(G.711\) von Polycom](#)

Polycoms RTCP-IP-Adresse:Port für Audio-Stream ist 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
```

### [Das H.320-Gateway stellt den ausgehenden Audiomodus über den POTS-Leg ein.](#)

```
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-Gateway sendet Audio-OLC-ACK an Polycom](#)

RTP- und RTCP-IP-Adresse des H.320-Gateways:Der Port für den Audio-Stream ist 14.1.16.220:18718 und 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-Gateway empfängt Video-OLC \(H.263\) von Polycom](#)

Polycoms RTCP-IP-Adresse:Port für Video-Stream ist 14.50.5.52:49197.

## [Der RTP-Payload-Typ für den H.263-Video-Stream vom Polycom zum H.320-Gateway ist auf 96 eingestellt.](#)

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-Gateway konfiguriert den ausgehenden Videomodus über die POTS-Schicht](#)

```

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-Gateway sendet Video-OLC zurück an Polycom](#)

RTP- und RTCP-IP-Adresse des H.320-Gateways:Port für Video-Streams: 14.1.16.220:18078 und 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:

```

### [Das H.320-Gateway sendet Audio Indicate Active Control and Information Signal an den Remote-Videoendpunkt im PSTN.](#)

Das H.320-Gateway sendet Audio-Signale zur aktiven Steuerung und zum Informationssignal an den Remote-Videoendpunkt im PSTN, um den Audiokanal zu aktivieren.

```

//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.*

## Video-Endpunkt im PSTN legt die Übertragungsrate und den Audio-Modus fest

```
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-Gateway sendet Audio-OLC (G.711) an Polycom

Die RTCP-IP-Adresse des H.320-Gateways ist der Port 14.1.16.220:18719.

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

value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 1
forwardLogicalChannelParameters
{
dataType audioData : g711Ulaw64k : 20
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 1
mediaControlChannel unicastAddress : ipAddress :
{
network '0E0110DC'H
tsapIdentifier 18719
}
}
silenceSuppression FALSE
}
}
}
```

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

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

### H.320-Gateway empfängt Audio-OLC-ACK von Polycom

RTP- und RTCP-IP-Adresse von Polycom: Der Port für den Audio-Stream ist 14.50.5.52:49194 und 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_recvddata: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*

## [Video-Endpunkt im PSTN legt den Bildmodus fest](#)

```

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

```

## [Das H.320-Gateway empfängt Audio Indicate Active Control and Information Signal vom Remote-Videoendpunkt im PSTN.](#)

Das H.320-Gateway empfängt Audio-Signale zur aktiven Steuerung und zum Informationssignal

vom Remote-Videoendpunkt im PSTN, um den Audiokanal zu aktivieren.

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

### [H.320-Gateway sendet Video-OLC \(H.263\) an Polycom](#)

RTCP-Adresse des H.320-Gateways:Port für Video-Stream ist 14.1.16.220:18079.

### [Der RTP-Payload-Typ für den H.263-Video-Stream vom H.320-Gateway zu Polycom ist auf 110 eingestellt.](#)

```
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 Gateway empfängt Video-OLC-ACK von Polycom

RTP- und RTCP-IP-Adresse von Polycom: Der Port für Video-Stream ist 14.50.5.52:49196 und
14.50.52:49197.

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-Gateway empfängt Video Fast Update \(VFU\)-Bildanforderung von Polycom](#)

In dieser Ausgabe erhält das H.320-Gateway eine VFU-Bildanforderung von Polycom, die anzeigt, dass es für den Empfang von Video-Streams bereit ist.

```
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:
```

### [Das H.320-Gateway sendet Video Fast Update Picture Control and Information Signal an den Video-Endpunkt im PSTN.](#)

```
//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:
```

### [Das H.320-Gateway erhält Flow Control Command von Polycom](#)

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

value MultimediaSystemControlMessage ::= command : flowControlCommand :
{
```



```
scope logicalChannelNumber : 2
restriction maximumBitRate : 3200
}
```

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

### [Das H.320-Gateway übermittelt den Flow Control Command an den Video-Endpunkt im PSTN.](#)

```
//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*

### [Das H.320-Gateway sendet Flow Control Command an Polycom](#)

### [Das H.320-Gateway erhält Flow Control Command vom Video-Endpunkt im PSTN.](#)

```
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_sqelch:
H221 Squelch Map=0x1
002010: Oct 4 21:02:26.536: //280/736483928021/H221():
      dsmp_h221_check_for_bas_sqelch:
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
```

### [Das H.320-Gateway sendet Flow Control Command an Polycom](#)

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

```
value MultimediaSystemControlMessage ::= command : flowControlCommand :
{
```

```
scope logicalChannelNumber : 3
restriction maximumBitRate : 3017
}
```

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

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

## Video-Endpunkt im PSTN trennt Videoanruf

```
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/xxxxxxxxxxxx/CCAPI/cc\_free\_feature\_vsa:  
  
002176: Oct 4 21:03:14.259: :cc\_free\_feature\_vsa freeing 65F09B30  
002177: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc\_free\_feature\_vsa:  
  
002178: Oct 4 21:03:14.259: vsacount in free is 6  
002179: Oct 4 21:03:14.259:  
//283/736483928021/CCAPI/cc\_api\_call\_disconnect\_done:  
Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=283,  
Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0)  
002180: Oct 4 21:03:14.259:  
//283/736483928021/CCAPI/cc\_api\_call\_disconnect\_done:  
Call Disconnect Event Sent  
002181: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc\_free\_feature\_vsa:  
  
002182: Oct 4 21:03:14.259: :cc\_free\_feature\_vsa freeing 65F09980  
002183: Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc\_free\_feature\_vsa:

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

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

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

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

002196: Oct 4 21:03:14.263: 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-Gateway löscht Anrufe am IP-Leg](#)

```
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-Gateway sendet DRQ an Gatekeeper](#)

```
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
```

## [Zugehörige Informationen](#)

- [Fehlerbehebung bei Cisco IP-Telefonie](#)
- [Grundlegende Konfiguration von Cisco Gateway-to-Gatekeeper mit zwei Zonen](#)
- [Anrufzugangskontrolle für H.323-VoIP-Gateways](#)
- [VoIP mit Gatekeeper](#)
- [Technischer Support und Dokumentation - Cisco Systems](#)