

Последовательность обработки видеовызовов от шлюза H.320 к привратнику H.323

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Введение

Этот документ описывает поток вызовов основного шлюза H.320 к видеовызову сторожевого устройства H.323. H.320 является рекомендацией ITU-T для мультимедийных данных, голоса и видеовызовов по сетям ISDN.

H.320 состоит из этих протоколов:

- H.221 — Определяет структуру фрейма для аудиовизуальных телеслужб через 1 или более Каналов В ISDN.
- H.230 — Определяет управляющих сигнал и информационные сигналы, используемые в видеотелефоне.
- H.242 — Определяет процедуры сигнализации, такие как инициализация режима, обмен возможностями и переключение режимов, требуемое установить мультимедийный вызов.

Каждый видеовызов H.320 состоит из одного основного вызова и нуля или большего количества вторичных вызовов. Например, 128К видеовызовов состоит из 1 основного вызова и 1 вторичного вызова.

Предварительные условия

Требования

Для этого документа отсутствуют особые требования.

Используемые компоненты

Сведения, содержащиеся в данном документе, касаются следующих версий программного обеспечения и оборудования:

- H.320 шлюз: Cisco 3725 с NM-HDV2 (5510 дес. ложек)
- Сторожевое устройство H.323: Cisco 3660
- Видеотерминал H.323: Polycom V500
- Пропускная способность = 384К

Сведения, представленные в этом документе, были получены от устройств, работающих в специальной лабораторной среде. Все устройства, описанные в этом документе, были запущены с чистой (стандартной) конфигурацией. В рабочей сети необходимо изучить потенциальное воздействие всех команд до их использования.

Условные обозначения

См. [Cisco Technical Tips Conventions](#) для получения информации об условных обозначениях в документации.

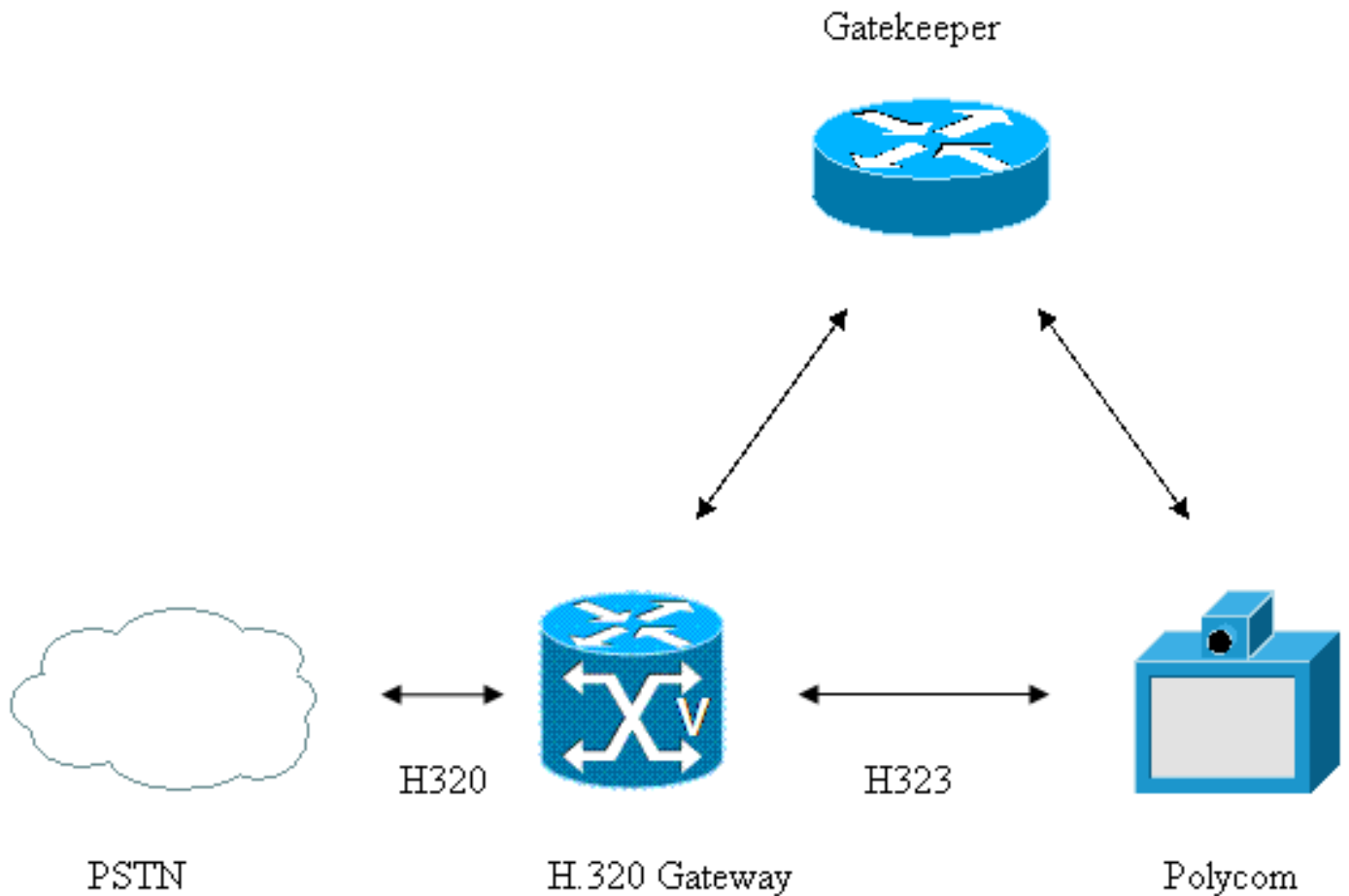
Настройка

В этом разделе содержатся сведения о настройке функций, описанных в этом документе.

Примечание: [Чтобы получить подробные сведения о командах в данном документе, используйте Средство поиска команд \(только для зарегистрированных клиентов\).](#)

Схема сети

В настоящем документе используется следующая схема сети:



План дозвона

Этот документ использует эту схему набора номеров:

- Оконечная точка видео в PSTN: 919-392-6000H.320 Основной вызываемый номер: 919-392-6000H.320 Вторичные вызываемые номера: 919-392-6001 к 919-392-6005
- Polycorn: 919-991-5600H.320 Основной вызываемый номер: 919-991-5600H.320 Вторичные вызываемые номера: 919-991-5601 к 919-991-5605

!--- конфигурацию

В данном документе используется следующая конфигурация:

Название 1 DeviceH.320 Gateway Configuratione

```
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
```

Потребляемая полоса пропускания

Видеовызов, описанный в этом документе, использует 384К пропускную способность.

Потребляемая полоса пропускания видеовызова:

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

Пример потока вызова

В данном разделе описывается поток вызовов, получаемый в результате применения конфигурации в данном примере.

1. Вызов ISDN от PSTN поступает в шлюз H.320 с 919-991-5600 как вызываемый номер, пропускная способность информационного канала (пропускная способность информационного канала) установлена в *Неограниченный, Цифровой* через $B\text{-channel}=1$.
2. Шлюз H.320 выполняет поиск входящего однорангового телефонного соединения. Так как пропускная способность информационного канала установлена в цифровой *Неограниченный*, она сначала ищет узел обычной телефонной сети H.320 (точки вызова, настроенные с информационным набором типа *к видео*), и совпадает с точкой вызова 9190. Первый вызов называют основным Вызовом.
3. Шлюз H.320 выполняет поиск адресуемого однорангового узла и направляет вызов через точку вызова 9910.
4. Шлюз H.320 передает запрос на доступ (ARQ) к сторожевому устройству и получает сообщение подтверждения допуска (ACF).
5. Шлюз H.320 передает Сообщение SETUP H.225 к Polycom.
6. Шлюз H.320 получает сообщение CONNECT H.225 от Polycom, и видеовызов связан на участке IP.
7. Шлюз H.320 передает сообщение ISDN CONNECT к PSTN, и Основной вызов связан
8. Шлюз H.320 передает начальные возможности H.221 через Ветвь обычной телефонной сети (POTS).
9. Синхронизация фреймов H.221 установлена через B-канал = 1 (также известный как

исходный канал или основной вызов).

10. После того, как синхронизация фреймов установлена, Polycom инициирует 5 вторичных вызовов один за другим. Синхронизация фреймов установлена через В-каналы 2 - 6 (также известный как дополнительные каналы или вторичные вызовы).
11. Партнеры шлюза H.320, поступающие вторичные вызовы диапазона 919-991-5601 к 919-991-5605 с основным вызовом (Шаг 2) с командой **voice-class called-number inbound 1**, которая определена как показано в конфигурации.
12. Шлюз H.320 и Polycom обмениваются аудио и функциями видео и открывают логические каналы (OLC) для аудио-и видеопотоков через участок IP и Ветвь обычной телефонной сети (POTS).

Планирование пропускной способности

Прежде чем вы разместите видеотрафик в сеть, гарантируете, что достаточная пропускная способность существует для всех необходимых приложений. Во-первых, вычислите требования минимальной пропускной способности для каждого основного приложения (например, голос, видео и данные). Сумма представляет требования минимальной пропускной способности для любой определенной ссылки. Эта сумма должна использовать не больше, чем 75 процентов общей пропускной способности, доступной на той ссылке. Это 75-процентное правило предполагает, что некоторая пропускная способность необходима для служебного трафика. Примеры служебного трафика включают обновления протокола маршрутизации и пакеты Keeralive Уровня 2, а также дополнительные приложения, такие как электронная почта и трафик HTTP. Имейте голос, и видеотрафик занимают не больше, чем 33 процента емкости ссылки

Видео H.323

Согласно стандарту H.323, функции видео в терминалах H.323 являются дополнительными. Однако при реализации терминалов H.323 терминалы должны поддерживать кодек H.261 с дополнительной поддержкой для стандарта H.263.

- H.261 — Видеокодек для аудиовизуальных сервисов во множителях 64 кбит/с. Совместимые H.261 устройства полностью кодируют исходные кадры. Устройства тогда кодируют только различия между исходными и последующими кадрами для минимальных пакетных передач. Дополнительная компенсация перемещения улучшает качество изображения.
- H.263 — Видеокодек для видео PlainOld Telephone Service (POTS) (обычная телефонная сеть). Стандарт H.263 является обратно совместимым обновлением стандарта H.261. H.263 значительно улучшает качество изображения с полупиксельным способом оценки движения, который является требованием.

Проверка

Этот раздел позволяет убедиться, что конфигурация работает правильно.

[Средство Output Interpreter \(OIT\) \(только для зарегистрированных клиентов\) поддерживает определенные команды show.](#) Посредством OIT можно анализировать выходные данные команд show.

• **show voice call summary** PORT CODEC VAD VTSP STATE VPM STATE

```
=====
2/1:23.1 h320p n S_CONNECT S_TSP_CONNECT 2/1:23.2 h320s - S_CONNECT S_TSP_CONNECT 2/1:23.3
h320s - S_CONNECT S_TSP_CONNECT 2/1:23.4 h320s - S_CONNECT S_TSP_CONNECT 2/1:23.5 h320s -
S_CONNECT S_TSP_CONNECT 2/1:23.6 h320s - S_CONNECT S_TSP_CONNECT h320p --> H.320 Primary
Call; h320s --> H.320 Secondary Call
```

• **краткое описание show call active video** В этих выходных данных о счетчиках Rx/Tx для видеовызова сообщают только для Основного вызова и не сообщают для Вторичных

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

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

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

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

```
11F7 : 273 87874820ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (273) [2/1.2] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11F8 : 274 87875140ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (274) [2/1.3] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11F9 : 275 87875460ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (275) [2/1.4] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11FA : 276 87875780ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:14 tx:0/0 rx:0/0
Tele 2/1:23 (276) [2/1.5] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
11FB : 277 87876100ms.1 +0 pid:9190 Answer 9193926000 active
dur 00:01:13 tx:0/0 rx:0/0
Tele 2/1:23 (277) [2/1.6] tx:0/0/0ms None noise:0 acom:0 i/0:0/0 dBm
video: h320:Secondary
Telephony call-legs: 6
SIP call-legs: 0
H323 call-legs: 1
```

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

• **show call active video** ВЕТВЬ ОБЫЧНОЙ ТЕЛЕФОННОЙ СЕТИ (POTS) — основной

ВЫЗОВ 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 **ВЕТЬ ОБЫЧНОЙ ТЕЛЕФОННОЙ СЕТИ (POTS) — вторичный**

ВЫЗОВGENERIC:
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 **УЧАСТОК IP** GENERIC:

SetupTime=87874540 ms
Index=1
PeerAddress=9199915600
PeerSubAddress=
PeerId=9910
PeerIfIndex=121
LogicalIfIndex=0
ConnectTime=87874650 ms
CallDuration=00:01:41 sec
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=speech
TransmitPackets=12528
TransmitBytes=3429599
ReceivePackets=8123
ReceiveBytes=2914089

VOIP:

ConnectionId[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
IncomingConnectionId[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0]
CallID=272
RemoteIPAddress=14.50.5.52
RemoteSignallingIPAddress=14.50.5.52
RemoteSignallingPort=1720
RemoteMediaIPAddress=14.50.5.52
RoundTripDelay=0 ms
tx_DtmfRelay=inband-voice
FastConnect=FALSE

AnnexE=FALSE

Separate H245 Connection=TRUE

H245 Tunneling=FALSE

SessionProtocol=cisco

ProtocolCallId=

SessionTarget=ras

OnTimeRvPlayout=0

GapFillWithSilence=0 ms

GapFillWithPrediction=0 ms

GapFillWithInterpolation=0 ms

GapFillWithRedundancy=0 ms

HiWaterPlayoutDelay=0 ms

LoWaterPlayoutDelay=0 ms

TxPakNumber=0

TxSignalPak=0

TxComfortNoisePak=0

TxDuration=0

TxVoiceDuration=0

RxPakNumber=0

RxSignalPak=0

RxComfortNoisePak=0

RxDuration=0

RxVoiceDuration=0

RxOutOfSeq=0

RxLatePak=0

RxEarlyPak=0

RxBadProtocol=0

PlayDelayCurrent=0

PlayDelayMin=0

PlayDelayMax=0

PlayDelayClockOffset=0

PlayDelayJitter=0 ms

PlayErrPredictive=0

PlayErrInterpolative=0

PlayErrSilence=0

PlayErrBufferOverflow=0

PlayErrRetroactive=0

PlayErrTalkspurt=0

OutSignalLevel=0

InSignalLevel=0

LevelTxPowerMean=0

LevelRxPowerMean=0

LevelBgNoise=0

ERLLevel=0

ACOMLevel=0

ErrRxDrop=0

ErrTxDrop=0

ErrTxControl=0

ErrRxControl=0

Outgoing Area=Video-GK

VideoTransmitCodec=H263+

VideoTransmitPackets=0

VideoTransmitBytes=0

VideoReceiveCodec=H263+

VideoReceivePackets=0

VideoReceiveBytes=0

VideoCap_Codec=H263+

VideoCap_Format=4CIF

VideoLostPackets=0

VideoEarlyPackets=0

VideoLatePackets=0

```
VideoUsedBandwidth=7300
VideoNumberOfChannels=2

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

```
ReceiveDelay=0 ms
LostPackets=0
EarlyPackets=0
LatePackets=0
SRTP = off
TextRelay = off
VAD = disabled
CoderTypeRate=g711ulaw
CodecBytes=160
Media Setting=flow-through
AlertTimepoint=87874600 ms
```

- **show voip rtp connections**VoIP RTP active connections :
No. CallId dstCallId LocalRTP RmtRTP LocalIP RemoteIP
1 272 271 16640 49190 14.1.16.220 14.50.5.52
2 278 279 18982 49192 14.1.16.220 14.50.5.52
Found 2 active RTP connections

Устранение неполадок

В этом разделе описывается процесс устранения неполадок конфигурации.

Команды "debug"

- debug h225 asn1
- q931 debug h225
- debug h245 asn1
- debug isdn q931
- **изменяемый debug voip h221**
- debug voip sscapi inout

Примечание: [Прежде чем выполнять какие-либо команды отладки , ознакомьтесь с документом "Важные сведения о командах отладки"](#).

Отладка результатов

В данном разделе представлены выходные данные команды debug для приведенного примера потока вызовов:

1. [Входящая НАСТРОЙКА с вызываемым номером = 9199915600 и набор Bearer-Cap к цифровому неограниченному](#)

2. [С Входящим одноранговым телефонным соединением 9190 Совпадают](#)
3. [С Адресуемой точкой исходящего вызова 9910 Совпадают](#)
4. [H.320 шлюз отправляет запрос ARQ к сторожевому устройству](#)
5. [H.320 шлюз получает ответ ACF от сторожевого устройства](#)
6. [H.320 шлюз передает сообщение SETUP H.225 к Polycom](#)
7. [Вызов связан на участке IP](#)
8. [H.320, который шлюз передает ПОДКЛЮЧЕНИЮ на стороне ISDN и вызове, связан](#)
9. [H.320 шлюз передает начальный набор возможности](#)
10. [Синхронизация фреймов Установлена Через В-канал 1](#)
11. [H.320 шлюз принимает первый вторичный вызов](#)
12. [Сначала вторичный вызов связан](#)
13. [Синхронизация фреймов Установлена Через В-канал 2](#)
14. [H.320 шлюз принимает второй вторичный вызов](#)
15. [Второй вторичный вызов связан](#)
16. [H.320 шлюз получает команду BAS от оконечной точки видео в PSTN](#)
17. [Синхронизация фреймов Установлена Через В-канал 3](#)
18. [H.320 шлюз принимает третий вторичный вызов](#)
19. [Третий вторичный вызов связан](#)
20. [Синхронизация фреймов Установлена Через В-канал 4](#)
21. [H.320 шлюз принимает четвертый вторичный вызов](#)
22. [Четвертый вторичный вызов связан](#)
23. [Синхронизация фреймов Установлена Через В-канал 4](#)
24. [H.320 шлюз принимает пятый вторичный вызов](#)
25. [Пятый Вторичный Вызов Связан](#)
26. [Синхронизация фреймов Установлена Через В-канал 6](#)
27. [H.320 шлюз получает набор возможности от оконечной точки видео в PSTN](#)
28. [H.320 шлюз передает набор возможности к оконечной точке видео в PSTN](#)
29. [H.320 шлюз Объявляет Аудио \(G711ulaw\) и Видео \(H.263\) Возможности через TCS к Polycom Через Участок IP](#)
30. [H.320 шлюз отправляет запрос MSD к Polycom](#)
31. [H.320 шлюз получает аудио Polycom \(G.722, G.728, G.711\) и видео \(H.263\) набор возможности](#)
32. [H.320 шлюз передает ACK TCS к Polycom](#)
33. [H.320 шлюз получает запрос MSD от Polycom](#)
34. [H.320 шлюз передает ACK MSD к Polycom](#)
35. [H.320 шлюз получает ACK TCS от Polycom](#)
36. [H.320 шлюз получает ACK MSD от Polycom](#)
37. [H.320 шлюз получает аудио OLC \(G.711\) от Polycom](#)
38. [Режим исходящего аудиосигнала множеств шлюзов H.320 через ВЕТВЬ ОБЫЧНОЙ ТЕЛЕФОННОЙ СЕТИ \(POTS\)](#)
39. [H.320 шлюз передает Аудио ACK OLC к Polycom](#)
40. [H.320 шлюз получает видео OLC \(H.263\) от Polycom](#)
41. [Тип полезных данных RTP для Видеопотка H.263 от Polycom до H.320 шлюз Установлен в 96](#)
42. [Множества шлюзов H.320, исходящие видео - режим через ВЕТВЬ ОБЫЧНОЙ ТЕЛЕФОННОЙ СЕТИ \(POTS\)](#)
43. [H.320 шлюз передает видео ACK OLC к Polycom](#)
44. [H.320, который шлюз передает аудио, указывает на активное управление и](#)

- [информационный сигнал к удаленной оконечной точке видео в PSTN](#)
45. [Оконечная точка видео в PSTN устанавливает скорость передачи и аудио режим](#)
 46. [H.320 шлюз передает аудио OLC \(G.711\) к Polycom](#)
 47. [H.320 шлюз получает аудио ACK OLC от Polycom](#)
 48. [Оконечная точка видео в PSTN устанавливает видео - режим](#)
 49. [H.320 шлюз получает аудио, указывает на активное управление и информационный сигнал от удаленной оконечной точки видео в PSTN](#)
 50. [H.320 шлюз передает видео OLC \(H.263\) к Polycom](#)
 51. [Тип полезных данных RTP для Видеопотка H.263 от H.320 шлюз к Polycom установлен в 110](#)
 52. [H.320 шлюз получает Видео ACK OLC от Polycom](#)
 53. [H.320 шлюз получает запрос изображения Видео быстро обновляет \(VFU\) от Polycom](#)
 54. [H.320, который шлюз передает видео быстро, обновляет управляющего сигнал изображения и информационный сигнал к оконечной точке видео в PSTN](#)
 55. [H.320 шлюз получает команду управления потоками от Polycom](#)
 56. [H.320 шлюз передает команду управления потоками к оконечной точке видео в PSTN](#)
 57. [H.320 шлюз передает команду управления потоками к Polycom](#)
 58. [H.320 шлюз Получает Команду Управления потоками от Оконечной точки видео в PSTN](#)
 59. [H.320 шлюз передает команду управления потоками к Polycom](#)
 60. [Оконечная точка видео в PSTN разъединяет видеовызов](#)
 61. [H.320 шлюз очищает запрос к участку IP](#)
 62. [H.320 шлюз передает DRQ к сторожевому устройству](#)

[Входящая НАСТРОЙКА с вызываемым номером = 9199915600 и набор Beager-Car к цифровому неограниченному](#)

Это - H.320 основной вызов.

```
001297: Oct 4 21:02:10.563: RCF (seq# 2048) rcvd
001298: Oct 4 21:02:16.748: ISDN Se2/1:23 Q931:
    RX <- SETUP pd = 8 callref = 0x009F
Bearer Capability i = 0x8890
Standard = CCITT
Transfer Capability = Unrestricted Digital
Transfer Mode = Circuit
Transfer Rate = 64 kbit/s
Channel ID i = 0xA98381
Exclusive, Channel 1
Display i = '111'
Calling Party Number i = 0x2182, '9193926000'
Plan:ISDN, Type:National
Called Party Number i = 0xA1, '9199915600'
Plan:ISDN, Type:National
001299: Oct 4 21:02:16.756:
    //-1/736483928021/CCAPI/cc_api_display_ie_subfields:
cc_api_call_setup_ind_common:
cisco-username=
----- ccCallInfo IE subfields -----
cisco-ani=9193926000
cisco-anitype=2
cisco-aniplan=1
cisco-anipi=0
cisco-anisi=2
```

dest=9199915600
cisco-desttype=2
cisco-destplan=1
cisco-rdie=FFFFFFFF
cisco-rdn=
cisco-rdntype=-1
cisco-rdnplan=-1
cisco-rdnpi=-1
cisco-rdnsi=-1
cisco-redirectreason=-1 fwd_final_type =0
final_redirectNumber =
hunt_group_timeout =0

С Входящим одноранговым телефонным соединением 9190 Совпадают

```
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,  
      feature_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
```

[С Адресуемой точкой исходящего вызова 9910 Совпадают](#)

```
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,
feature_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 шлюз отправляет запрос ARQ к сторожевому устройству](#)

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
{
guid '73651FB9532211DB817D90162806D3F1'H
}
willSupplyUUIEs 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 шлюз передает сообщение SETUP H.225 к 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:
```

[Вызов связан на участке IP](#)

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

```
value H323_UserInformation ::=
```

```
{
h323-uu-pdu
{
h323-message-body connect :
{
protocolIdentifier { 0 0 8 2250 0 4 }
h245Address ipAddress :
{
ip '0E320534'H
port 2595
}
destinationInfo
{
vendor
{
vendor
{
t35CountryCode 181
t35Extension 0
manufacturerCode 9009
}
productId '56353030'H
versionId '52656C6561736520372E352E31202D2031314A61...'H
}
terminal
{
}
mc FALSE
```

```
undefinedNode FALSE
}
conferenceID '73648392532211DB8021000D28D3D7C0'H
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
multipleCalls FALSE
maintainConnection TRUE
presentationIndicator presentationAllowed : NULL
screeningIndicator 2
}
h245Tunneling FALSE
}
}

001388: Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_call_connected:
Interface=0x65D7A87C, Data Bitmask=0x0, Progress Indication=NULL(0),
Connection Handle=0
001389: Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_call_connected:
Call Entry(Connected=TRUE, 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)
```

Н.320, который шлюз передает ПОДКЛЮЧЕНИЮ на стороне ISDN и вызове, связан

Это - основной вызов.

```
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
```

Н.320 шлюз передает начальный набор возможности

```
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
```

Синхронизация фреймов Установлена Через В-канал 1

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

Н.320 шлюз принимает первый вторичный вызов

```
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
```

Сначала вторичный вызов связан

```
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
```

Синхронизация фреймов Установлена Через В-канал 2

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

Н.320 шлюз принимает второй вторичный вызов

```
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
```

Второй вторичный вызов связан

```
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
```

Н.320 шлюз получает команду BAS от оконечной точки видео в PSTN

Шлюз Н.320 получает команду BAS от оконечной точки видео в PSTN, который указывает, что это может принять возможности Н.263.

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

H221 Squelch Map=0x0

Синхронизация фреймов Установлена Через В-канал 3

001463: Oct 4 21:02:17.696: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:

B-Channel=3, B-channel H.221 Sync=TRUE

001464: Oct 4 21:02:17.696: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:

B-Channel(s)=3, Connected=2, Not InSync=0, InSync=3

H.320 шлюз принимает третий вторичный вызов

001465: Oct 4 21:02:17.696: ISDN Se2/1:23 Q931:

RX <- SETUP pd = 8 callref = 0x00A2

Bearer Capability i = 0x8890

Standard = CCITT

Transfer Capability = Unrestricted Digital

Transfer Mode = Circuit

Transfer Rate = 64 kbit/s

Channel ID i = 0xA98384

Exclusive, Channel 4

Display i = '111'

Calling Party Number i = 0x2182, '9193926000'

Plan:ISDN, Type:National

Called Party Number i = 0xA1, '9199915603'

Plan:ISDN, Type:National

001466: Oct 4 21:02:17.700:

//-1/73F4907B8024/CCAPI/cc_api_create_cc_entry_common:

Interface=0x65A8CAD4, Call Id=-1,

Call Info=9193926000(TON=National, NPI=ISDN, Screening=User, Failed,
Presentation=Allowed),

Called Number=9199915603(TON=National, NPI=ISDN),

FinalDestinationFlag=FALSE, Incoming Dial-peer=9190

001467: Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

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

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

001470: Oct 4 21:02:17.700: cc_get_feature_vsa count is 5

001471: Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

001472: Oct 4 21:02:17.700: :FEATURE_VSA attributes are:

feature_name:0,fearture_time:1710266544,feature_id:82

001473: Oct 4 21:02:17.700: //280/736483928021/H221():

h221_set_outgoing_bchnl_map:

B-Channel=4, Q.931 Connect Indicated=TRUE

001474: Oct 4 21:02:17.700: //280/736483928021/H221():

h221_set_outgoing_bchnl_map:

B-Channel(s)=3, Connected=2, Not InSync=0, InSync=3

001475: Oct 4 21:02:17.700: //284/736483928021/CCAPI/cc_api_call_connected:

Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0),

Connection Handle=0

001476: Oct 4 21:02:17.700: //284/736483928021/CCAPI/cc_api_call_connected:

Call Entry(Connected=TRUE, Responded=FALSE, Retry Count=0)

001477: Oct 4 21:02:17.700: //280/736483928021/H221():

h221_set_outgoing_bchnl_map:

B-Channel=4, Include B-channel In H.320 Call=TRUE

001478: Oct 4 21:02:17.704: //280/736483928021/H221():

h221_set_outgoing_bchnl_map:

B-Channel(s)=4, Connected=3, Not InSync=1, InSync=3

001479: Oct 4 21:02:17.704: ISDN Se2/1:23 Q931: TX -> CALL_PROC

pd = 8 callref = 0x80A2

Channel ID i = 0xA98384

Exclusive, Channel 4

Третий вторичный вызов связан

```
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
```

Синхронизация фреймов Установлена Через В-канал 4

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

Н.320 шлюз принимает четвертый вторичный вызов

```
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

Четвертый вторичный вызов связан

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():
dsmtp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001516: Oct 4 21:02:18.036: //280/736483928021/H221():
dsmtp_h221_check_for_bas_squelch:
H221 Squelch Map=0x0
001517: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps
001518: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:
B-Channel=1, Include B-channel In H.320 Call=TRUE
001519: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:
B-Channel=1, B-channel H.221 Sync=TRUE
001520: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:
B-Channel=1, Q.931 Connect Indicated=TRUE
```

Синхронизация фреймов Установлена Через В-канал 4

```
001521: Oct 4 21:02:18.036: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:
B-Channel(s)=5, Connected=5, Not InSync=1, InSync=4
001522: Oct 4 21:02:18.036: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK pd
= 8 callref = 0x00A3
001523: Oct 4 21:02:18.040: %ISDN-6-CONNECT: Interface Serial2/1:4
is now connected to 9193926000 N/A
001524: Oct 4 21:02:18.336: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:
B-Channel=5, B-channel H.221 Sync=TRUE
001525: Oct 4 21:02:18.336: //280/736483928021/H221():
h221_set_outgoing_bchnl_map:
B-Channel(s)=5, Connected=5, Not InSync=0, InSync=5
```

Н.320 шлюз принимает пятый вторичный вызов

```
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/xxxxxxxxxxxxx/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/xxxxxxxxxxxxx/CCAPI/cc_get_feature_vsa:

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

Пятый Вторичный Вызов Связан

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

Синхронизация фреймов Установлена Через В-канал 6

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

[H.320 шлюз получает набор возможности от оконечной точки видео в PSTN](#)

Набор возможности задает Минимальный интервал изображения (MPI), пропорции, аудиокодек, видеокодек и количество В-каналов, которое поддерживается оконечной точкой видео.

```
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
```

[H.320 шлюз передает набор возможности к оконечной точке видео в 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
```

[H.320 шлюз Объявляет Аудио \(G711ulaw\) и Видео \(H.263\) Возможности через TCS к Polcom Через Участок IP](#)

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

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

```
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
receiveAndTransmitMultipointCapability
{
multicastCapability FALSE
multiUniCastConference FALSE
mediaDistributionCapability
{
{
centralizedControl FALSE
distributedControl FALSE
centralizedAudio FALSE
distributedAudio FALSE
centralizedVideo FALSE
distributedVideo FALSE
}
}
}
mcCapability
{
centralizedConferenceMC FALSE
decentralizedConferenceMC FALSE
}
rtcpVideoControlCapability FALSE
mediaPacketizationCapability
{
h261aVideoPacketization FALSE
rtpPayloadType
{
{
payloadDescriptor rfc-number : 2429
}
}
}
logicalChannelSwitchingCapability FALSE
t120DynamicPortCapability FALSE
}
capabilityTable
{
{
capabilityTableEntryNumber 34
capability receiveRTPAudioTelephonyEventCapability :
{
dynamicRTPPayloadType 101
audioTelephoneEvent "0-16"
}
},
},
```

```

{
capabilityTableEntryNumber 3
capability receiveAudioCapability : g711Ulaw64k : 20
},
{
capabilityTableEntryNumber 39
capability receiveVideoCapability : h263VideoCapability :
{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3017
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88

```


001585: Oct 4 21:02:19.064: h323chan_chn_process_read_socket:
h323chan accepted/connected fd=4

001586: Oct 4 21:02:19.088: h323chan_chn_process_read_socket

001587: Oct 4 21:02:19.088: h323chan_chn_process_read_socket:
fd=4 of type CONNECTED has data

001588: Oct 4 21:02:19.088: h323chan_chn_process_read_socket:
h323chan accepted/connected fd=4

001589: Oct 4 21:02:19.088: h245_decode_one_pdu: more_pdus = 0,
bytesLeftToDecode = 433

001590: Oct 4 21:02:19.088: H245 MSC INCOMING ENCODE BUFFER::=
02700106000881750007801C00003C00010000010000010004020D0108097C1007
000881710000001180000024301660C0B5000001019340BB80010CB50000010101
20000180000124301660C0B50000010192407D00010CB500000101012000018000
0224301660C0B50000010191405DC0010CB5000001010120000180000324301160
00060007B8350100407D0001001200018000042430116000060007B8350100405D
C0010012000180000524301660C0B50000010196403E80010CB500000101012000
0180000621401380000722400780000820C01380000920401380000A0C00216000
0700088171000001400F000502914002A2001D0032001400620015004200078000
0B09FC00000A0EFF20705001001B080000104000AF007700AF0077412040005700
3B0057003B40204080000C0C000900C0B500233102210180000D0C001220C0B500
0001019D010CB50000010101101080000E08B0000EFF40000F48C600328000104A
0C09000006000881600100003280001104B5002331045153404400800003090000
00010002000300040005000600070008000904000A000B000C000D000E01000F00
10000011

001591: Oct 4 21:02:19.092:

[H.320 шлюз получает аудио Polycom \(G.722, G.728, G.711\) и видео \(H.263\) набор ВОЗМОЖНОСТИ](#)

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 шлюз передает ACK TCS к 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 шлюз получает запрос MSD от 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 шлюз передает ACK MSD к 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 шлюз получает ACK TCS от Polycom](#)

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

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

```

{
sequenceNumber 1
}

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

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

```

[H.320 шлюз получает ACK MSD от 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 шлюз получает аудио OLC \(G.711\) от Polycom](#)

RTCP Polycom ipAddress:port для аудиопотка 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
```

Режим исходящего аудиосигнала множеств шлюзов H.320 через ВЕТВЬ ОБЫЧНОЙ ТЕЛЕФОННОЙ СЕТИ (POTS)

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

H.320 шлюз передает Аудио ACK OLC к Ролусом

RTP шлюза H.320 и RTCP ipaddress:port для аудиопотка 14.1.16.220:18718 и 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 шлюз получает видео OLC \(H.263\) от Polycom](#)

RTCP Polycom ipaddress:port для Видеопотка 14.50.5.52:49197.

[Тип полезных данных RTP для Видеопотка H.263 от Polycom до H.320 шлюз Установлен в 96](#)

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

value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 3
forwardLogicalChannelParameters
{
dataType videoData : h263VideoCapability :
{
sqcifMPI 1
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3010
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction FALSE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE

```

```

dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 2
mediaControlChannel unicastAddress : ipAddress :
{
network '0E320534'H
tsapIdentifier 49197
}
dynamicRTPPayloadType 96
mediaPacketization rtpPayloadType :
{
payloadDescriptor rfc-number : 2429
payloadType 96
}
}
}
}

```

```

001665: Oct 4 21:02:19.216: h245_decode_one_pdu: H245ASNDecodePdu rc = 0,
bytesLeftToDecode = 0

```

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

Множества шлюзов H.320, исходящие видео - режим через ВЕТВЬ ОБЫЧНОЙ ТЕЛЕФОННОЙ СЕТИ (POTS)

001669: Oct 4 21:02:19.216: //280/736483928021/H221():
dsmp_h221_set_outgoing_requested_video_mode:
Outgoing Video Mode=H.263
001670: Oct 4 21:02:19.216: //280/736483928021/H221():
h221_lock_video_mode:
Incoming Video Mode=OFF, Outgoing Video Mode=H.263
001671: Oct 4 21:02:19.216: //280/736483928021/H221():
h221_outgoing_message_entry:
Outgoing BAS Command=Send Caps
001672: Oct 4 21:02:19.216: //280/736483928021/H221():
dsmp_h221_populate_config_rtp_params:
Direction=Outgoing, Type=Video
001673: Oct 4 21:02:19.216: //280/736483928021/H221():
dsmp_h221_populate_config_rtp_params:
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
001674: Oct 4 21:02:19.216: //280/736483928021/H221():
dsmp_h221_populate_config_rtp_params:
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x60
001675: Oct 4 21:02:19.216: //280/736483928021/H221():
dsmp_h221_calculate_max_video_bandwidth_internal:
Calculation Type=Flow Control, B-Channel(s)=6, Bandwidth=3017
001676: Oct 4 21:02:19.216: //280/736483928021/H221():
dsmp_h221_populate_flow_control_internal:
Video Flow Control, Value=3017, Bandwidth Calculated From H.320 Legs=3017
001677: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event=141, Call Id=280
001678: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001679: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=280
001680: Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly

H.320 шлюз передает видео ACK OLC к Polysom

RTP шлюза H.320 и RTCP ipaddress:port для видеопотка 14.1.16.220:18078 и 14.1.16.220:18079.

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

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

```

tsapIdentifier 18079
}
flowControlToZero FALSE
}
}

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

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

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

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

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

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

```

[H.320, который шлюз передает аудио, указывает на активное управление и информационный сигнал к удаленной оконечной точке видео в PSTN](#)

Шлюз H.320 передает аудио, указывают на активное управление и информационный сигнал к удаленной оконечной точке видео в PSTN для активации звукового канала.

```

//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.

[Оконечная точка видео в PSTN устанавливает скорость передачи и аудио режим](#)

```
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 шлюз передает аудио OLC \(G.711\) к Polycom](#)

RTCP шлюза H.320 ipaddress:port для аудиопотка 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 шлюз получает аудио ACK OLC от Polycom](#)

RTP и RTCP Polycom ipaddress:port для аудиопотка 14.50.5.52:49194 и 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

[Оконечная точка видео в PSTN устанавливает видео - режим](#)

```
001870: Oct 4 21:02:25.036: //280/736483928021/H221():
h221_incoming_video_mode:
```

```
Incoming Video Mode=H.263
```

```
001871: Oct 4 21:02:25.036: //280/736483928021/H221():
dsmp_h221_video_mode:
```

```
Video Mode=H.263
001872: Oct 4 21:02:25.036: //280/736483928021/H221():
    h221_incoming_unsupported_other_mode:
BAS=0x60
001873: Oct 4 21:02:25.036: //280/736483928021/H221():
    h221_incoming_unsupported_other_mode:
BAS=0x70
001874: Oct 4 21:02:25.036: //280/736483928021/H221():
    h221_incoming_handle_table_4_H230:
Handling H.230 BAS=0x3
```

[H.320 шлюз получает аудио, указывает на активное управление и информационный сигнал от удаленной оконечной точки видео в PSTN](#)

Шлюз H.320 получает аудио, указывают на активное управление и информационный сигнал от удаленной оконечной точки видео в PSTN для активации звукового канала.

```
001875: Oct 4 21:02:25.036: //280/736483928021/H221():
    dsmp_h221_misc_command:
Received Miscellaneous Command=Audio Channel Active
001876: Oct 4 21:02:25.036: //280/736483928021/H221():
    h221_incoming_message_entry:
Return Code=H221 Partial Message
001877: Oct 4 21:02:25.036: //280/736483928021/H221():
    dsmp_h221_check_for_bas_sqelch:
H221 Sqelch Map=0x0
001878: Oct 4 21:02:25.036: //280/736483928021/H221():
    dsmp_h221_check_for_bas_sqelch:
H221 Sqelch Map=0x1
001879: Oct 4 21:02:25.036: //280/736483928021/H221():
    h221_lock_video_mode:
Incoming Video Mode=H.263, Outgoing Video Mode=H.263
001880: Oct 4 21:02:25.036: //280/736483928021/H221():
    h221_outgoing_message_entry:
Outgoing BAS Command=Send Mode
001881: Oct 4 21:02:25.036: //280/736483928021/H221():
    dsmp_h221_calculate_max_video_bandwidth_internal:
Calculation Type=Max Capability, B-Channel(s)=6, Bandwidth=3017
001882: Oct 4 21:02:25.036:
    //280/736483928021/CCAPI/cc_api_event_indication:
Event=140, Call Id=280
001883: Oct 4 21:02:25.036:
    //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
001884: Oct 4 21:02:25.036:
    //280/736483928021/CCAPI/cc_api_event_indication:
Event=151, Call Id=280
001885: Oct 4 21:02:25.040:
    //280/736483928021/CCAPI/cc_api_event_indication:
Event Is Sent To Conferenced SPI(s) Directly
```

[H.320 шлюз передает видео OLC \(H.263\) к Polycom](#)

RTCP шлюза H.320 ipaddress:port для видеопотка 14.1.16.220:18079.

[Тип полезных данных RTP для Видеопотка H.263 от H.320 шлюз к Polycom установлен в 110](#)

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

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

```
forwardLogicalChannelNumber 2
forwardLogicalChannelParameters
{
dataType videoData : h263VideoCapability :
{
qcifMPI 1
cifMPI 1
cif4MPI 2
maxBitRate 3017
unrestrictedVector FALSE
arithmeticCoding FALSE
advancedPrediction TRUE
pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
errorCompensation FALSE
h263Options
{
advancedIntraCodingMode FALSE
deblockingFilterMode FALSE
improvedPBFramesMode FALSE
unlimitedMotionVectors FALSE
fullPictureFreeze FALSE
partialPictureFreezeAndRelease FALSE
resizingPartPicFreezeAndRelease FALSE
fullPictureSnapshot FALSE
partialPictureSnapshot FALSE
videoSegmentTagging FALSE
progressiveRefinement FALSE
dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
dynamicWarpingHalfPel FALSE
dynamicWarpingSixteenthPel FALSE
independentSegmentDecoding FALSE
slicesInOrder-NonRect FALSE
slicesInOrder-Rect FALSE
slicesNoOrder-NonRect FALSE
slicesNoOrder-Rect FALSE
alternateInterVLCMode FALSE
modifiedQuantizationMode TRUE
reducedResolutionUpdate FALSE
separateVideoBackChannel FALSE
customPictureFormat
{
{
maxCustomPictureWidth 176
maxCustomPictureHeight 120
minCustomPictureWidth 176
minCustomPictureHeight 120
mPI
{
standardMPI 2
}
}
pixelAspectInformation pixelAspectCode :
{
3
}
},
{
maxCustomPictureWidth 88
maxCustomPictureHeight 60
minCustomPictureWidth 88
minCustomPictureHeight 60
mPI
```

```

{
standardMPI 1
}
pixelAspectInformation pixelAspectCode :
{
3
}
}
}
}
}
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 2
mediaControlChannel unicastAddress : ipAddress :
{
network '0E0110DC'H
tsapIdentifier 18079
}
dynamicRTPPayloadType 110
mediaPacketization rtpPayloadType :
{
payloadDescriptor rfc-number : 2429
payloadType 110
}
}
}
}
}
001887: Oct 4 21:02:25.048: H245 MSC OUTGOING ENCODE BUFFER ::=
    0300000108EE0000A00BC820705001001B080000104000AF007700AF007
    74120400057003B0057003B4020408011046002000E0110DC469F740004
    48097CDC
001888: Oct 4 21:02:25.048:
001889: Oct 4 21:02:25.048: H245 MSC OUTGOING PDU ::=

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

```

```

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

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

```

[H.320 шлюз получает Видео ACK OLC от Polycom](#)

RTP и RTCP Polycom ipaddress:port для видеопотка 14.50.5.52:49196 и 14.50.5.52:49197.

```

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

value MultimediaSystemControlMessage ::= response : openLogicalChannelAck :

```

```

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

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

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

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

001916: Oct 4 21:02:25.076: h245_decode_one_pdu:
    H245ASNDecodePdu rc = 0, bytesLeftToDecode = 0

```

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

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

[H.320 шлюз получает запрос изображения Видео быстро обновляет \(VFU\) от Polycom](#)

В этих выходных данных шлюз H.320 получает запрос изображения VFU от Polycom, который указывает, что это готово получить видеопоток.

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

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

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

[H.320, который шлюз передает видео быстро, обновляет управляющего сигнал изображения и информационный сигнал к оконечной точке видео в 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:
```

[H.320 шлюз получает команду управления потоками от 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:

[H.320 шлюз передает команду управления потоками к оконечной точке видео в 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

[H.320 шлюз передает команду управления потоками к Polycom](#)

[H.320 шлюз получает команду управления потоками от оконечной точки видео в 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 Sqelch Map=0x1

002010: Oct 4 21:02:26.536: //280/736483928021/H221():

dsmp_h221_check_for_bas_sqelch:

H221 Sqelch Map=0x1

002011: Oct 4 21:02:26.536: //280/736483928021/CCAPI/cc_api_event_indication:

Event=151, Call Id=280

002012: Oct 4 21:02:26.536: //280/736483928021/CCAPI/cc_api_event_indication:

Event Is Sent To Conferenced SPI(s) Directly

[H.320 шлюз передает команду управления потоками к 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

[Оконечная точка видео в PSTN разъединяет видеовызов](#)

```
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 шлюз очищает запрос к участку IP](#)

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

```
value H323_UserInformation ::=
{
h323-uu-pdu
{
h323-message-body releaseComplete :
{
protocolIdentifier { 0 0 8 2250 0 4 }
callIdentifier
{
guid '73651FB9532211DB817D90162806D3F1'H
}
}
}
h245Tunneling FALSE
```

```

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

```

```

002201: Oct 4 21:03:14.271: H225.0 OUTGOING ENCODE BUFFER ::=
2580060008914A00041100110073651FB9532211DB817D90162806D3
F110A801003A0140B5000012336001020001082C0802829F1C269E81
00036774640000001B52454C2C0D0A50524E2C6973646E2A2C2C4E49
2A2A2A2C0D0A0D0A224204677464011B52454C2C0D0A50524E2C6973
646E2A2C2C4E492A2A2A2C0D0A0D0A

```

```

002202: Oct 4 21:03:14.271:
Q931 Message IE Decodes
Protocol Discriminator : 0x08
CRV Length : 2
CRV Value : 0x001C
Message Type : 0x5A: RELEASE_COMP
Cause: Length Of IE=2
Data 829F
User-User: Length Of IE=128
Data 052580060008914A00041100110073651FB9532211DB817D90162806D3
F110A801003A0140B5000012336001020001082C0802829F1C269E8100
036774640000001B52454C2C0D0A50524E2C6973646E2A2C2C4E492A2A
2A2C0D0A0D0A224204677464011B52454C2C0D0A50524E2C6973646E2A
2C2C4E492A2A2A2C0D0A0D0A

```

```

002203: Oct 4 21:03:14.271: H225 NONSTD OUTGOING PDU ::=

```

```

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

```

```

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

```

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

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

[H.320 шлюз передает DRQ к сторожевому устройству](#)

```
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
```

[Дополнительные сведения](#)

- [Устранение неполадок в системах IP-телефонии Cisco](#)
- [Двухзонная настройка системы шлюз-привратник Cisco](#)
- [Call Admission Control для голосового шлюза H.323](#)
- [Голосовая связь по IP-протоколу \(VoIP\) с использованием привратника](#)
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