

H.323 ويديف تامل الكم قفدت ىلإ H.320 ةبأوب Gatekeeper

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المقدمة

يصف هذا المستند تدفق المكالمات لبوابة H.320 الأساسية إلى مكالمة فيديو H.323 لـ H.320 Gatekeeper. هو توصية من ITU-T لبيانات الوسائط المتعددة ومكالمات الصوت والفيديو عبر شبكات ISDN.

يتكون H.320 من هذه البروتوكولات:

- H.221—يحدد بنية إطار التلسكوبات السمعية البصرية عبر قناة ISDN B واحدة أو أكثر.
 - يعرف H.230 إشارات التحكم والمعلومات المستخدمة في النظام السمعي البصري.
 - H.242—يحدد إجراءات إرسال الإشارات، مثل تهيئة الوضع وتبادل القدرات والتبديل في الوضع المطلوب لإنشاء مكالمة وسائط متعددة.
- يتألف كل مكالمة فيديو H.320 من مكالمة أساسية واحدة ولا توجد مكالمات ثانوية أو أكثر. على سبيل المثال، تتألف مكالمة فيديو بسرعة 128 كيلو من مكالمة أساسية واحدة ومقابلة ثانوية واحدة.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

- بوابة Cisco 3725 مع H.320 (5510 DSP NM-HDV2)
- H.323 Gatekeeper: Cisco 3660
- H.323 Video Terminal: Polycom V500
- النطاق الترددي = 384 كيلوبايت

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين مسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

الاصطلاحات

أحلت [إلى Cisco في طرف إتفاق](#) لمعلومة على وثيقة إتفاق.

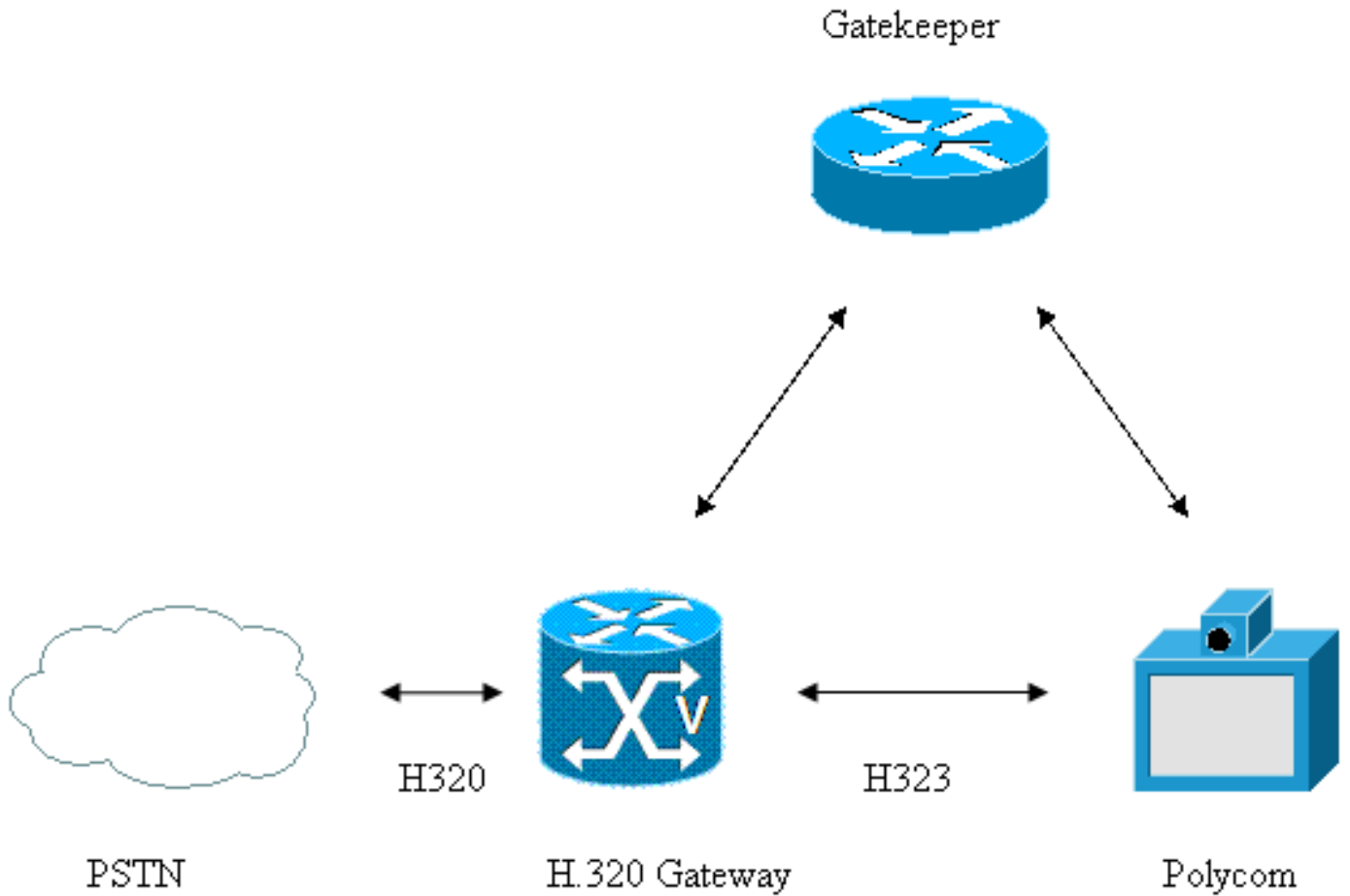
التكوين

في هذا القسم، تُقدّم لك معلومات تكوين الميزات الموضحة في هذا المستند.

ملاحظة: أستخدم [أداة بحث الأوامر](#) (للعملاء [المسجلين](#) فقط) للحصول على مزيد من المعلومات حول الأوامر المستخدمة في هذا القسم.

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة التالي:



خطة الطلب

يستخدم هذا المستند خطة الطلب هذه:

- نقطة نهاية الفيديو في H.320: 919-392-6001 إلى H.320: 919-392-6005 المسمى PSTN: الرقم الرئيسي المسمى: 919-392-6000 الرقم الثانوي المسمى 919-392-6001 إلى H.320: 919-392-6005
- بوليكوم: 919-991-5600 الرقم الأساسي المسمى H.320: 919-991-5600 الرقم الثانوي المسمى H.320: 919-991-5601 إلى 919-991-5605

التكوين

يستعمل هذا وثيقة هذا تشكيل:

DevicH.320 Gateway Configuration Name 1
<pre> 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 </pre>

```

"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

```

إستهلاك عرض النطاق الترددي

تستخدم مكالمة الفيديو الموضحة في هذا المستند النطاق الترددي العريض الذي يبلغ 384 كيلوبايت.

إستهلاك عرض النطاق الترددي لمكالمة الفيديو:

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

مثال على تدفق المكالمات

يصف هذا القسم تدفق المكالمات الذي ينتج من مثال التكوين هذا.

1. تصل مكالمة ISDN من PSTN إلى بوابة H.320 مع الرقم المتصل 919-991-5600، حيث يتم تعيين إمكانية الحامل (غطاء الحامل) على رقمي غير مقيد عبر B-channel=1.
2. تقوم بوابة H.320 بالبحث الوارد عن نظير الطلب. بما أن طرف الحامل تم تعيينه على رقمي غير مقيد، فإنه يبحث أولاً عن نظير طلب H.320 POTS (نظير الطلب الذي تم تكوينه باستخدام نوع المعلومات المعين على الفيديو) ويطابق نظير الطلب 9190. تسمى المكالمة الأولى المكالمة الأساسية.
3. تقوم بوابة H.320 بإجراء بحث عن نظير الطلب الصادر وتوجه المكالمة عبر نظير الطلب 9910.
4. ترسل عبارة H.320 طلب قبول (ARQ) إلى برنامج حماية البوابة وتتلقى رسالة تأكيد الدخول (ACF).
5. ترسل بوابة H.320 رسالة إعداد H.225 إلى Polycom.
6. تتلقى بوابة H.320 رسالة اتصال H.225 من Polycom، ويتم توصيل مكالمة الفيديو على IP LEG.
7. ترسل عبارة H.320 رسالة اتصال ISDN إلى PSTN، ويتم توصيل المكالمة الأساسية.
8. ترسل بوابة H.320 إمكانات H.221 الأولية عبر POTS LEG.
9. يتم إنشاء مزامنة إطار H.221 عبر قناة B = 1 (المعروفة أيضاً باسم القناة الأولية أو المكالمة الأساسية).
10. بعد إنشاء مزامنة الإطار، يقوم Polycom بتهيئة 5 مكالمات ثانوية واحدة تلو الأخرى. يتم إنشاء مزامنة الأطارات عبر القنوات من B من 2 إلى 6 (المعروفة أيضاً بالقنوات الإضافية أو المكالمات الثانوية).
11. تقوم عبارة H.320 بالربط بين المكالمات الثانوية الواردة من النطاق 919-991-5601 إلى 919-991-5605 مع المكالمة الأساسية (الخطوة 2) مع الأمر **voice-class call-number inbound 1**، والذي يتم تعريفه كما هو موضح في التكوين.
12. تتبادل بوابة H.320 و Polycom إمكانات الصوت والفيديو والقنوات المنطقية المفتوحة (OLCs) لتدفقات الصوت والفيديو عبر ساق IP وقنوات POTS LEG.

تخطيط السعة

قبل وضع حركة مرور الفيديو على شبكة، تأكد من وجود النطاق الترددي الكافي لجميع التطبيقات الضرورية. أولاً، قم بحساب الحد الأدنى لمتطلبات النطاق الترددي لكل تطبيق رئيسي (على سبيل المثال، الصوت والفيديو والبيانات). يمثل المجموع الحد الأدنى لمتطلبات النطاق الترددي لأي ارتباط محدد. يجب ألا يستهلك هذا المبلغ أكثر من 75 بالمائة من إجمالي النطاق الترددي المتاح على هذا الارتباط. تفترض هذه القاعدة التي تبلغ نسبة 75 بالمائة أن بعض النطاق الترددي مطلوب لحركة المرور العامة. وتتضمن أمثلة حركة المرور الإضافية تحديثات بروتوكول التوجيه ورسائل keepalive من الطبقة 2، بالإضافة إلى التطبيقات الإضافية، مثل حركة مرور البريد الإلكتروني و HTTP. تجعل حركة مرور الصوت والفيديو لا تشغل أكثر من 33 بالمائة من سعة الارتباط

فيديو H.323

وفقاً لمعيار H.323، تعد إمكانيات الفيديو المتوفرة في المحطات الطرفية H.323 اختيارية. ومع ذلك، عند تنفيذ المحطات الطرفية H.323، يجب أن تدعم المحطات الطرفية ترميز H.261 مع دعم اختياري لمعيار H.263.

- H.261—برنامج ترميز فيديو للخدمات السمعية البصرية بمضاعفات تبلغ 64 كيلوبت/ثانية. الأجهزة المتوافقة مع H.261 ترميز الإطارات الأولية ترميزاً كاملاً. وبعد ذلك، تقوم الأجهزة بتشغيل الفروق بين الإطارات الأولية والتالية فقط للحد الأدنى من عمليات إرسال الحزم. تعويض الحركة الاختياري يحسن جودة الصورة.
- H.263—برنامج تشفير الفيديو لخدمة الهاتف القديمة العادية (POTS). معيار H.263 هو تحديث متوافق مع الإصدارات السابقة لمعيار H.261. يعمل H.263 على تحسين جودة الصورة بدرجة ملحوظة من خلال تقنية تقدير الحركة بنصف بكسل، والتي تعد من المتطلبات.

التحقق من الصحة

استخدم هذا القسم لتأكيد عمل التكوين بشكل صحيح.

تدعم **أداة مترجم الإخراج (للعلماء المسجلين فقط) بعض أوامر show**. استخدم أداة مترجم الإخراج (OIT) لعرض تحليل مخرج الأمر **show**.

• إظهار ملخص المكالمات الصوتية

```
PORT CODEC VAD VTSP STATE VPM STATE
=====
h320p n S_CONNECT S_TSP_CONNECT 2/1:23.1
h320s - 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
```

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

• **إظهار ملخص الفيديو النشط في هذا الإخراج**، يتم الإبلاغ عن عدادات Rx/Tx الخاصة بمكالمة فيديو فقط للاستدعاء الأساسي ولا يتم الإبلاغ عنها للمكالمات الثانوية.

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
i/0:0/0 dBm 0
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

```

• إظهار الفيديو النشط POTS LEG — الاتصال الرئيسي

```

:GENERIC
SetupTime=87874530 ms
Index=1
PeerAddress=9193926000
=PeerSubAddress
PeerId=9190
PeerIfIndex=120
LogicalIfIndex=61
ConnectTime=87874660 ms
CallDuration=00:01:39 sec
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=video
TransmitPackets=4853

```

TransmitBytes=815304
ReceivePackets=9223
ReceiveBytes=737840
:TELE
[ConnectionId=[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0
[IncomingConnectionId=[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0
CallID=271
TxDuration=0 ms
VoiceTxDuration=0 ms
FaxTxDuration=0 ms
CoderTypeRate=g711ulaw
NoiseLevel=0
ACOMLevel=0
OutSignalLevel=0
InSignalLevel=0
InfoActivity=0
ERLLevel=0
=SessionTarget
ImgPages=0
=CallerName
CallerIDBlocked=False
LongDurationCallDetected=no
=LongDurCallTimeStamp
=LongDurCallDuration
OriginalCallingNumber=9193926000
OriginalCallingOctet=0x21
OriginalCalledNumber=9199915600
OriginalCalledOctet=0xA1
=OriginalRedirectCalledNumber
OriginalRedirectCalledOctet=0xFF
TranslatedCallingNumber=9193926000
TranslatedCallingOctet=0x21
TranslatedCalledNumber=9199915600
TranslatedCalledOctet=0xA1
=TranslatedRedirectCalledNumber
TranslatedRedirectCalledOctet=0xFF
GwReceivedCalledNumber=9199915600
GwReceivedCalledOctet3=0xA1
GwReceivedCallingNumber=9193926000
GwReceivedCallingOctet3=0x21
GwReceivedCallingOctet3a=0x82
DSPIdentifier=2/3:1
:VIDEO
H320CallType=Primary
VideoTransmitCodec=H263+
VideoReceiveCodec=H263+
VideoUsedBandwidth=3840
:(H221 STATS (AUDIO
TxPackets=9123
TxDuration=91230 ms
RxPackets=4561
RxDuration=91130 ms
BadHeaders=0
PacketsLate=0
PacketsEarly=1
ReceiveDelay=35 ms
ConcealmentDuration=0 ms
BufferOverflowDiscards=80
:(H221 STATS (VIDEO
TxPackets=2958
TxBytes=2547987
PSC=2686 --> Number of Picture Start Codes detected
GBSC=2686 --> Number of Group of Block Start Codes detected
TxVideoFormat=7

RxPackets=3037
RxBytes=1999240
VideoBytesConsumed=1986099
FillBytesConsumed=1658651
PSCPacketDrops=0 --> Number of packets dropped at beginning of
stream due to missing Picture Start Code
LatePacket=0
OutOfSequence=0
BadHeader=0
BadSSRC=0
BadPayloadType=0
BufferOverflow=0
ControlHeaderOverflow=0
FilteredDelay=450 ms --> Average delay of received video packets
MinimumDelay=3 ms
MaximumDelay=619 ms
RxVideoFormat=7

مكالمة ثانوية — POTS LEG

:GENERIC
SetupTime=87874820 ms
Index=1
PeerAddress=9193926000
=PeerSubAddress
PeerId=9190
PeerIfIndex=120
LogicalIfIndex=62
ConnectTime=87874820 ms
CallDuration=00:01:44 sec
CallState=4
CallOrigin=2
ChargedUnits=0
InfoType=video
TransmitPackets=0
TransmitBytes=0
ReceivePackets=0
ReceiveBytes=0
:TELE
[ConnectionId=[0x38016FD6 0x532111DB 0x801C000D 0x28D3D7C0
[IncomingConnectionId=[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0
CallID=273
TxDuration=0 ms
VoiceTxDuration=0 ms
FaxTxDuration=0 ms
CoderTypeRate=None
NoiseLevel=0
ACOMLevel=0
OutSignalLevel=0
InSignalLevel=0
InfoActivity=0
ERLLevel=0
=SessionTarget
ImgPages=0
=CallerName
CallerIDBlocked=False
LongDurationCallDetected=no
=LongDurCallTimeStamp
=LongDurCallDuration
OriginalCallingNumber=9193926000
OriginalCallingOctet=0x21
OriginalCalledNumber=9199915601
OriginalCalledOctet=0xA1
=OriginalRedirectCalledNumber
OriginalRedirectCalledOctet=0xFF

TranslatedCallingNumber=9193926000
TranslatedCallingOctet=0x21
TranslatedCalledNumber=9199915601
TranslatedCalledOctet=0xA1
=TranslatedRedirectCalledNumber
TranslatedRedirectCalledOctet=0xFF
GwReceivedCalledNumber=9199915601
GwReceivedCalledOctet3=0xA1
GwReceivedCallingNumber=9193926000
GwReceivedCallingOctet3=0x21
GwReceivedCallingOctet3a=0x82
:VIDEO
H320CallType=Secondary
IP LEG
:GENERIC
SetupTime=87874540 ms
Index=1
PeerAddress=9199915600
=PeerSubAddress
PeerId=9910
PeerIfIndex=121
LogicalIfIndex=0
ConnectTime=87874650 ms
CallDuration=00:01:41 sec
CallState=4
CallOrigin=1
ChargedUnits=0
InfoType=speech
TransmitPackets=12528
TransmitBytes=3429599
ReceivePackets=8123
ReceiveBytes=2914089
:VOIP
[ConnectionId[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0
[IncomingConnectionId[0x37D44522 0x532111DB 0x801B000D 0x28D3D7C0
CallID=272
RemoteIPAddress=14.50.5.52
RemoteSignallingIPAddress=14.50.5.52
RemoteSignallingPort=1720
RemoteMediaIPAddress=14.50.5.52
RoundTripDelay=0 ms
tx_DtmfRelay=inband-voice
FastConnect=FALSE

AnnexE=FALSE

Separate H245 Connection=TRUE

H245 Tunneling=FALSE

SessionProtocol=cisco
=ProtocolCallId
SessionTarget=ras
OnTimeRvPayout=0
GapFillWithSilence=0 ms
GapFillWithPrediction=0 ms
GapFillWithInterpolation=0 ms
GapFillWithRedundancy=0 ms
HiWaterPayoutDelay=0 ms
LoWaterPayoutDelay=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

• إظهار إتصالات rtp voip

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

استكشاف الأخطاء وإصلاحها

يوفر هذا القسم معلومات يمكنك استخدامها لاستكشاف أخطاء التكوين وإصلاحها.

أوامر التصحيح

debug h225 asn1 •
debug h225 q931 •
debug h245 asn1 •
debug isdn q931 •
debug voip h221 inout •
debug voIP ccapi inout •

ملاحظة: ارجع إلى [معلومات مهمة حول أوامر التصحيح](#) قبل استخدام أوامر debug.

مخرجات تصحيح الأخطاء

يوفر هذا القسم إخراج تصحيح الأخطاء لعينة تدفق الاستدعاءات هذه:

1. [الإعداد الوارد باستخدام رقم مستدعى = 9199915600 وتعيين Bearer-Cap على رقمي غير مقيد](#)
2. [تمت مطابقة نظير الطلب الوارد 9190](#)
3. [تمت مطابقة نظير الطلب الصادر 9910](#)
4. [ترسل عبارة H.320 طلب ARQ إلى برنامج حماية البوابة](#)
5. [تستلم بوابة H.320 إستجابة ACF من برنامج حماية البوابة](#)
6. [ترسل عبارة H.320 رسالة إعداد H.225 إلى Polycom](#)
7. [يتم توصيل المكالمة في IP LEG](#)
8. [ترسل عبارة H.320 الاتصال على جانب ISDN ويتم توصيل المكالمة](#)
9. [ترسل بوابة H.320 مجموعة القدرات الأولية](#)
10. [يتم إنشاء مزامنة الإطارات عبر قناة B-1](#)
11. [تتلقى بوابة H.320 أول مكالمة ثانوية](#)
12. [الاتصال لأول مكالمة ثانوية يتم توصيلها](#)
13. [يتم إنشاء مزامنة الإطارات عبر قناة B-2](#)
14. [تتلقى بوابة H.320 المكالمة الثانوية الثانية](#)
15. [الاتصال الثانوي الثاني يتم توصيله](#)
16. [تستلم بوابة H.320 أمر BAS من نقطة نهاية الفيديو في PSTN](#)
17. [يتم إنشاء مزامنة الإطارات عبر قناة B-3](#)

18. [تتلقى بوابة H.320 المكالمات الثانوية الثالثة](#)
19. [اتصال المكالمات الثانوية الثالثة](#)
20. [يتم إنشاء مزامنة الإطارات عبر قناة B-4](#)
21. [تتلقى بوابة H.320 المكالمات الثانوية الرابعة](#)
22. [اتصال المكالمات الثانوية الرابعة](#)
23. [يتم إنشاء مزامنة الإطارات عبر قناة B-4](#)
24. [تتلقى بوابة H.320 المكالمات الثانوية الخامسة](#)
25. [اتصال المكالمات الثانوية الخامسة](#)
26. [يتم إنشاء مزامنة الإطارات عبر قناة B-6](#)
27. [تستلم عبارة H.320 مجموعة القدرة من نقطة نهاية الفيديو في PSTN](#)
28. [ترسل عبارة H.320 مجموعة القدرات إلى نقطة نهاية الفيديو في PSTN](#)
29. [تعلن بوابة H.320 عن إمكانيات الصوت \(G711ULAW\) والفيديو \(H.263\) من خلال أجهزة الكمبيوتر إلى جهاز Polycom عبر IP LEG](#)
30. [ترسل عبارة H.320 طلب MSD إلى Polycom](#)
31. [تستلم بوابة H.320 مجموعة إمكانيات الصوت \(G.722 Polycom و G.728 و G.711\) والفيديو \(H.263\)](#)
32. [ترسل بوابة H.320 TCS ACK إلى Polycom](#)
33. [تستلم بوابة H.320 طلب MSD من Polycom](#)
34. [ترسل بوابة H.320 MSD ACK إلى Polycom](#)
35. [تستلم بوابة H.320 TCS ACK من Polycom](#)
36. [تستلم بوابة H.320 MSD ACK من Polycom](#)
37. [تستلم بوابة H.320 الصوت \(G.711 OLC\) من Polycom](#)
38. [تعمل بوابة H.320 على تعيين وضع الصوت الصادر عبر POTS LEG](#)
39. [ترسل بوابة H.320 مكس صوت OLC إلى Polycom](#)
40. [تستلم بوابة H.320 الفيديو \(H.263 OLC\) من Polycom](#)
41. [تم تعيين نوع حمولة RTP لتدفق فيديو H.263 من Polycom إلى عبارة H.320 إلى 96](#)
42. [تقوم عبارة H.320 بتعيين وضع الفيديو الصادر عبر POTS LEG](#)
43. [ترسل عبارة H.320 Video OLC ACK إلى Polycom](#)
44. [ترسل عبارة H.320 إشارة الصوت الخاصة بالتحكم بالنشط والمعلومات إلى نقطة نهاية الفيديو البعيدة في PSTN](#)
45. [تعمل نقطة نهاية الفيديو في PSTN على تعيين معدل النقل ووضع الصوت](#)
46. [ترسل عبارة H.320 الصوت \(G.711 OLC\) إلى Polycom](#)
47. [تستلم بوابة H.320 Audio OLC ACK من Polycom](#)
48. [تعمل نقطة نهاية الفيديو في PSTN على تعيين وضع الفيديو](#)
49. [تستقبل بوابة H.320 إشارة الصوت الخاصة بالتحكم بالنشط والمعلومات من نقطة نهاية الفيديو البعيدة في PSTN](#)
50. [ترسل عبارة H.320 الفيديو \(H.263 OLC\) إلى Polycom](#)
51. [تم تعيين نوع حمولة RTP لتدفق فيديو H.263 من بوابة H.320 إلى Polycom إلى 110](#)
52. [تستلم بوابة H.320 Video OLC ACK من Polycom](#)
53. [تستلم بوابة H.320 طلب صورة تحديث سريع للفيديو \(VFU\) من Polycom](#)
54. [ترسل عبارة H.320 إشارة معلومات والتحكم في صورة التحديث السريع للفيديو إلى نقطة نهاية الفيديو في PSTN](#)
55. [تستلم بوابة H.320 أمر التحكم في التدفق من Polycom](#)
56. [ترسل عبارة H.320 أمر التحكم في التدفق إلى نقطة نهاية الفيديو في PSTN](#)
57. [ترسل عبارة H.320 أمر التحكم في التدفق إلى Polycom](#)
58. [تتلقى عبارة H.320 أمر التحكم في التدفق من نقطة نهاية الفيديو في PSTN](#)
59. [ترسل عبارة H.320 أمر التحكم في التدفق إلى Polycom](#)
60. [تعمل نقطة نهاية الفيديو في PSTN على قطع اتصال مكالمات الفيديو](#)
61. [تعمل بوابة H.320 على مسح المكالمات على IP LEG](#)

الإعداد الوارد باستخدام رقم مستدعى = 9199915600 وتعيين Bearer-Cap على رقمي غير مقيد

هذه هي المكالمة الأساسية H.320.

```
Oct 4 21:02:10.563: RCF (seq# 2048) rcvd :001297
:Oct 4 21:02:16.748: ISDN Se2/1:23 Q931 :001298
    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
:Oct 4 21:02:16.756 :001299
:CCAPI/cc_api_display_ie_subfields/-1/736483928021//
    :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
```

تمت مطابقة نظير الطلب الوارد 9190

```
/Oct 4 21:02:16.756: //-1/736483928021/CCAPI :001300
    :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
:Oct 4 21:02:16.756: //-1/736483928021/CCAPI/ccCheckClipClir :001301
        ,In: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed
```

```
(Presentation=Allowed
:Oct 4 21:02:16.756: //-1/736483928021/CCAPI/ccCheckClipClir :001302
,Out: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed
(Presentation=Allowed
:Oct 4 21:02:16.756: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001303

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

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

,Oct 4 21:02:16.756: :FEATURE_VSA attributes are: feature_name:0 :001308
feature_time:1710265896,feature_id:78
:Oct 4 21:02:16.756 :001309
:CCAPI/cc_api_call_setup_ind_common/280/736483928021//
;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
:Oct 4 21:02:16.760: //280/736483928021/CCAPI/cc_process_call_setup_ind :001310
Event=0x6587C660
:Oct 4 21:02:16.760: //280/736483928021/CCAPI/ccCallSetContext :001311
Context=0x64C5F570
:Oct 4 21:02:16.760: //280/736483928021/CCAPI/cc_process_call_setup_ind :001312
"CCAPI handed cid 280 with tag 9190 to app "_ManagedAppProcess_Default<<<<
:Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallProceeding :001313
(Progress Indication=NULL(0
:Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallSetupRequest :001314
,Destination=, Calling IE Present=TRUE, Mode=0
(Outgoing Dial-peer=9910, Params=0x64C5DA10, Progress Indication=NULL(0
:Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCheckClipClir :001315
,In: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed
(Presentation=Allowed
:Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCheckClipClir :001316
,Out: Calling Number=9193926000(TON=National, NPI=ISDN, Screening=User, Failed
(Presentation=Allowed
:Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallSetupRequest :001317
Destination Pattern=919991..., Called Number=9199915600, Digit Strip=FALSE
:Oct 4 21:02:16.764: //280/736483928021/CCAPI/ccCallSetupRequest :001318
,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
:Oct 4 21:02:16.764 :001319
:CCAPI/cc_api_display_ie_subfields/280/736483928021//
: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
```

تمت مطابقة نظير الطلب الصادر 9910

```
/Oct 4 21:02:16.768: //280/736483928021/CCAPI :001320
: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
:Oct 4 21:02:16.768: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001321

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

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

,Oct 4 21:02:16.768: :FEATURE_VSA attributes are: feature_name:0 :001326
feature_time:1710266976,feature_id:79
:Oct 4 21:02:16.768 :001327
:CCAPI/ccIFCallSetupRequestPrivate/281/736483928021//
SPI Call Setup Request Is Success; Interface Type=1, FlowMode=1
:Oct 4 21:02:16.768: //281/736483928021/CCAPI/ccCallSetContext :001328
Context=0x64C5D9C0
:Oct 4 21:02:16.768: //280/736483928021/CCAPI/ccSaveDialpeerTag :001329
Outgoing Dial-peer=9910
```

ترسل عبارة H.320 طلب ARQ إلى برنامج حماية البوابة

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

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

```
:::Oct 4 21:02:16.772: H225 NONSTD OUTGOING ENCODE BUFFER :001331
8000010A801820C144953444E20322F313A323380A300A049414D2C0D0A50524
E2C6973646E2A2C2C4E492A2A2A2C0D0A5553492C726174652C632C642C632C310
D0A544D522C30310D0A43504E2C30342C2C312C393139393931353630300D0A434
74E2C30342C2C312C792C332C393139333932363030300D0A4350432C30390D0A46
43492C2C2C2C2C2C792C0D0A4743492C3733363438333932353332323131646
2383032313030306432386433643763300D0A0D0A
:Oct 4 21:02:16.772 :001332
>::: Oct 4 21:02:16.772: RAS OUTGOING PDU :001333
```

```
: 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
          {
```

```
      =::Oct 4 21:02:16.776: RAS OUTGOING ENCODE BUFFER :001334
2788080000F00036003500370036003600430036004300300030003000300030003000300030003000
031010480C4CCC48933020480C4C6C5933340090056006900640065006F002D0047005700
2D00328002BC00001C40B500001280B980000010A801820C144953444E20322F313A32338
0A300A049414D2C0D0A50524E2C6973646E2A2C2C4E492A2A2A2C0D0A5553492C72617465
2C632C642C632C310D0A544D522C30310D0A43504E2C30342C2C312C39313939393135363
0300D0A43474E2C30342C2C312C792C332C393139333932363030300D0A4350432C30390D
0A4643492C2C2C2C2C2C792C0D0A4743492C37333634383339323533323231316462383
032313030306432386433643763300D0A0D0A73648392532211DB8021000D28D3D7C008E0
20000180110073651
FB9532211DB817D90162806D3F10100
Oct 4 21:02:16.776: h323chan_dgram_send:Sent UDP msg. Bytes sent: 316 :001335
to 14.50.3.101:1719 fd=2
```

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


Oct 4 21:02:16.780: h323chan_dgram_rcvdata:rcvd from :001341
on fd=2 [14.50.3.101:1719]

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

:Oct 4 21:02:16.780 :001343

تستلم بوابة H.320 إستجابة ACF من برنامج حماية البوابة

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

```
: value RasMessage ::= admissionConfirm
}
requestSeqNum 2049
bandWidth 179200
callModel direct : NULL
: destCallSignalAddress ipAddress
}
ip '0E320534'H
port 1720
{
irrFrequency 240
nonStandardData
}
: nonStandardIdentifier h221NonStandard
}
t35CountryCode 181
t35Extension 0
manufacturerCode 18
{
data '00020480C4C6C593334009005600690064006500...'H
{
willRespondToIRR FALSE
uuiesRequested
}
setup FALSE
callProceeding FALSE
connect FALSE
alerting FALSE
information FALSE
releaseComplete FALSE
facility FALSE
progress FALSE
empty FALSE
{
usageSpec
}
}
when
}
end NULL
inIrr NULL
{
callStartingPoint
}
connect NULL
{
required
```

```

}
nonStandardUsageTypes
}
{
    startTime NULL
    endTime NULL
    terminationCause NULL
}
{
}
{
}
{
}

Oct 4 21:02:16.784: ACF (seq# 2049) rcvd :001345
=::Oct 4 21:02:16.784: H225 NONSTD INCOMING ENCODE BUFFER :001346
00020480C4C6C5933340090056006900640065006F002D00470057002D0032010
480C4CCC48933
:Oct 4 21:02:16.784 :001347
=:: Oct 4 21:02:16.784: H225 NONSTD INCOMING PDU :001348

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

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

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

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

=:: value H4501SupplementaryService
}
networkFacilityExtension
}
sourceEntity endpoint : NULL
destinationEntity endpoint : NULL
{
interpretationApu discardAnyUnrecognizedInvokePdu : NULL
: serviceApu rosApdus
}
: invoke
}
invokeId 44

```

```
opcode local : 85
{"argument {"43000000
{
{
{
=::Oct 4 21:02:16.792: H450 OUTGOING ENCODE BUFFER :001355
60000110002C0001550443000000
:Oct 4 21:02:16.792 :001356
=:: Oct 4 21:02:16.792: H225 NONSTD OUTGOING PDU :001357
```

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

```
=::Oct 4 21:02:16.796: H225 NONSTD OUTGOING ENCODE BUFFER :001358
60010200010429040288901803A9838128033131316C0C2182393139333932363
03030700BA139313939393135363030
:Oct 4 21:02:16.796 :001359
```

[ترسل عبارة H.320 رسالة إعداد H.225 إلى Polycom](#)

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

```
=:: 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
    {
    {
    {
    {
    }
```

```
    =:Oct 4 21:02:16.804: H225.0 OUTGOING ENCODE BUFFER :001361
20A0060008914A00040140090056006900640065006F002D00470057002D003228C0B5
0000120B436973636F47617465776179003240023C0504010020402C05010000736483
92532211DB8021000D28D3D7C000CD0D800007000E0110DC3AB1110073651FB9532211
DB817D90162806D3F1010001000180018011A010010E60000110002C00015504430000
000100370140B50000123060010200010429040288901803A9838128033131316C0C21
8239313933393236303030700BA139313939393135363030
:Oct 4 21:02:16.804 :001362
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

Oct 4 21:02:16.808: h323chan_chn_process_read_socket :001363
Oct 4 21:02:16.808: h323chan_chn_process_read_socket: fd=3 of type :001364
CONNECTED has data
Oct 4 21:02:16.808: h323chan_chn_process_read_socket: h323chan :001365
accepted/connected fd=3

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

Oct 4 21:02:16.836: H225.0 INCOMING ENCODE BUFFER::= 2380060008914A000 :001369
422C0B500233103563530301E52656C6561736520372E352E31202D2031314A616E323030
352031353A353801B0D800110073651FB9532211DB817D90162806D3F1010001800100014
010800100

:Oct 4 21:02:16.836 :001370
=: Oct 4 21:02:16.836: H225.0 INCOMING PDU :001371

=: 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
}
}
:Oct 4 21:02:16.840: //281/736483928021/CCAPI/cc_api_set_delay_xport :001372
(CallInfo(delay xport=TRUE
:Oct 4 21:02:16.840: //281/736483928021/CCAPI/cc_api_call_alert :001373
Interface=0x65D7A87C, Progress Indication=NULL(0), Signal Indication=SIGNAL
(RINGBACK(1
:Oct 4 21:02:16.840: //281/736483928021/CCAPI/cc_api_call_alert :001374
(Call Entry(Retry Count=0, Responded=TRUE
:Oct 4 21:02:16.844: //280/736483928021/CCAPI/ccCallAlert :001375
(Progress Indication=NULL(0), Signal Indication=SIGNAL RINGBACK(1
:Oct 4 21:02:16.844: //280/736483928021/CCAPI/ccCallAlert :001376
(Call Entry(Responded=TRUE, AlertSent=TRUE
:Oct 4 21:02:16.844: //280/736483928021/CCAPI/ccGenerateToneInfo :001377
,Stop Tone On Digit=FALSE, Tone=Ring Back
Tone Direction=Network, Params=0x0, Call Id=280
:( )Oct 4 21:02:16.844: //280/736483928021/H221 :001378
:h221_set_initial_outgoing_caps
:( )Oct 4 21:02:16.844: //280/736483928021/H221 :001379
:h221_set_outgoing_bchnl_map
B-Channel=1, Include B-channel In H.320 Call=TRUE
:( )Oct 4 21:02:16.844: //280/736483928021/H221 :001380
:h221_set_outgoing_bchnl_map
B-Channel(s)=1, Connected=0, Not InSync=1, InSync=0
<- Oct 4 21:02:16.848: ISDN Se2/1:23 Q931: TX :001381
ALERTING pd = 8 callref = 0x809F
Oct 4 21:02:16.880: h323chan_chn_process_read_socket :001382
:Oct 4 21:02:16.880: h323chan_chn_process_read_socket :001383
fd=3 of type CONNECTED has data
:Oct 4 21:02:16.880: h323chan_chn_process_read_socket :001384
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
Oct 4 21:02:16.884: H225.0 INCOMING ENCODE BUFFER ::= 22C006000 :001385
8914A0004000E3205340A2322C0B500233103563530301E52656C656173652037

```

2E352E31202D2031314A616E323030352031353A35380073648392532211DB802
1000D28D3D7C01D0CC0110073651FB9532211DB817D90162806D3F10100018001
00014010800100
:Oct 4 21:02:16.884 :001386

IP LEG يتم توصيل المكالمة في

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

```
      ::= 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
      {
      {
```

```
:Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_call_connected :001388
, (Interface=0x65D7A87C, Data Bitmask=0x0, Progress Indication=NULL(0
Connection Handle=0
:Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_call_connected :001389
(Call Entry(Connected=TRUE, Responded=TRUE, Retry Count=0
:Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_event_indication :001390
Event=148, Call Id=281
:Oct 4 21:02:16.888: //281/736483928021/CCAPI/cc_api_event_indication :001391
```

Event Is Sent To Conferenced SPI(s) Directly
=.: Oct 4 21:02:16.888: H225 NONSTD OUTGOING PDU :001392

```
=: value IRRperCallnonStandardInfo
}
startTime 1159995736
{
```

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

```
: 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
    {

```

```

=::Oct 4 21:02:16.900: RAS OUTGOING ENCODE BUFFER :001396
5AC0080128C0B50000120B436973636F47617465776179003240023C05040100
20402C0501000780003600350037003600360043003600430030003000300030

```

0030003000300031000E0110DCD06B01000E0110DC06B80A0180A89401807654
0180B3330180A4440180AC640180A8930180AA340180AA350180A89840090056
006900640065006F002D00470057002D003201E100B500001205704524215800
1C73648392532211DB8021000D28D3D7C0802002BC0003C900110073651FB953
2211DB817D90162806D3F10100072000C0452421570E2401000180
:Oct 4 21:02:16.900: h323chan_dgram_send:Sent UDP msg. Bytes sent :001397
to 14.50.3.101:1719 fd=2 219

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

Oct 4 21:02:16.904: cc_api_get_xcode_stream : 4369 :001404
:Oct 4 21:02:16.904: //281/xxxxxxxxxxxx/CCAPI/cc_api_bridge_done :001405
,Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281
Destination Call Id=280, Disposition=0x0, Tag=0x0
:Oct 4 21:02:16.904: //280/736483928021/CCAPI/cc_generic_bridge_done :001406
,Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281
Destination Call Id=280, Disposition=0x0, Tag=0x0
:Oct 4 21:02:16.904: //280/736483928021/CCAPI/ccConferenceCreate :001407
(Call Entry(Conference Id=0x12, Destination Call Id=281
:Oct 4 21:02:16.904: //281/736483928021/CCAPI/ccConferenceCreate :001408
(Call Entry(Conference Id=0x12, Destination Call Id=280
:Oct 4 21:02:16.904 :001409
:CCAPI/cc_process_notify_bridge_done/280/736483928021//
Conference Id=0x12, Call Id1=280, Call Id2=281
:Oct 4 21:02:16.904: //280/736483928021/CCAPI/ccCallConnect :001410
Progress Indication=NULL(0), Data Bitmask=0x0
:Oct 4 21:02:16.904: //280/736483928021/CCAPI/ccCallConnect :001411
(Call Entry(Connected=TRUE, Responded=TRUE

ترسل عبارة H.320 الاتصال على جانب ISDN ويتم توصيل المكالمة

هذه هي المكالمة الأساسية.

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

ترسل بوابة H.320 مجموعة القدرات الأولية

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

تم إنشاء مزامنة الإطارات عبر قناة B-1

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

تلقي بوابة H.320 أول مكالمة ثانوية

```
:Oct 4 21:02:17.056: ISDN Se2/1:23 Q931 :001419
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
:Oct 4 21:02:17.060 :001420
:-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
:Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001421
Oct 4 21:02:17.060: :cc_get_feature_vsa malloc success :001422
:Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001423
Oct 4 21:02:17.060: cc_get_feature_vsa count is 3 :001424
:Oct 4 21:02:17.060: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001425
,Oct 4 21:02:17.060: :FEATURE_VSA attributes are: feature_name:0 :001426
feature_time:1710267192,feature_id:80
:():Oct 4 21:02:17.060: //280/736483928021/H221 :001427
:h221_set_outgoing_bchnl_map
B-Channel=2, Q.931 Connect Indicated=TRUE
:():Oct 4 21:02:17.060: //280/736483928021/H221 :001428
:h221_set_outgoing_bchnl_map
B-Channel(s)=1, Connected=0, Not InSync=0, InSync=1
:Oct 4 21:02:17.060: //282/736483928021/CCAPI/cc_api_call_connected :001429
,(Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0
Connection Handle=0
:Oct 4 21:02:17.060: //282/736483928021/CCAPI/cc_api_call_connected :001430
(Call Entry(Connected=TRUE, Responded=FALSE, Retry Count=0
:():Oct 4 21:02:17.064: //280/736483928021/H221 :001431
:h221_set_outgoing_bchnl_map
B-Channel=2, Include B-channel In H.320 Call=TRUE
:():Oct 4 21:02:17.064: //280/736483928021/H221 :001432
:h221_set_outgoing_bchnl_map
B-Channel(s)=2, Connected=1, Not InSync=1, InSync=1
:Oct 4 21:02:17.064: ISDN Se2/1:23 Q931 :001433
TX -> CALL_PROC pd = 8 callref = 0x80A0
```

Channel ID i = 0xA98382
Exclusive, Channel 2

الاتصال لأول مكالمة ثانوية يتم توصلها

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

يتم إنشاء مزامنة الإطارات عبر قناة B-2

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

تلقى بوابة H.320 المكالمة الثانوية الثانية

```
= Oct 4 21:02:17.376: ISDN Se2/1:23 Q931: RX <- SETUP pd :001439
callref = 0x00A1 8
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
:Oct 4 21:02:17.380 :001440
:-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
:Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001441
Oct 4 21:02:17.380: :cc_get_feature_vsa malloc success :001442
:Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001443
Oct 4 21:02:17.380: cc_get_feature_vsa count is 4 :001444
:Oct 4 21:02:17.380: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001445
,Oct 4 21:02:17.380: :FEATURE_VSA attributes are: feature_name:0 :001446
feature_time:1710266760,feature_id:81
:():Oct 4 21:02:17.380: //280/736483928021/H221 :001447
:h221_set_outgoing_bchnl_map
B-Channel=3, Q.931 Connect Indicated=TRUE
:():Oct 4 21:02:17.380: //280/736483928021/H221 :001448
:h221_set_outgoing_bchnl_map
B-Channel(s)=2, Connected=1, Not InSync=0, InSync=2
```

```
:Oct 4 21:02:17.380: //283/736483928021/CCAPI/cc_api_call_connected :001449
, (Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0
Connection Handle=0
:Oct 4 21:02:17.380: //283/736483928021/CCAPI/cc_api_call_connected :001450
(Call Entry(Connected=TRUE, Responded=FALSE, Retry Count=0
:():Oct 4 21:02:17.380: //280/736483928021/H221 :001451
:h221_set_outgoing_bchnl_map
B-Channel=3, Include B-channel In H.320 Call=TRUE
:():Oct 4 21:02:17.384: //280/736483928021/H221 :001452
:h221_set_outgoing_bchnl_map
B-Channel(s)=3, Connected=2, Not InSync=1, InSync=2
<- Oct 4 21:02:17.384: ISDN Se2/1:23 Q931: TX :001453
CALL_PROC pd = 8 callref = 0x80A1
Channel ID i = 0xA98383
Exclusive, Channel 3
```

الاتصال الثانوي الثاني يتم توصيله

```
<- Oct 4 21:02:17.384: ISDN Se2/1:23 Q931: TX :001454
CONNECT pd = 8 callref = 0x80A1
Oct 4 21:02:17.392: ISDN Se2/1:23 Q931: RX <- CONNECT_ACK :001455
pd = 8 callref = 0x00A1
Oct 4 21:02:17.396: %ISDN-6-CONNECT: Interface Serial2/1:2 :001456
is now connected to 9193926000 N/A
:():Oct 4 21:02:17.532: //280/736483928021/H221 :001457
:dsmpt_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
:():Oct 4 21:02:17.536: //280/736483928021/H221 :001458
:h221_incoming_message_entry
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
```

تستلم بوابة H.320 أمر BAS من نقطة نهاية الفيديو في PSTN

تتلقى بوابة H.320 الأمر BAS من نقطة نهاية الفيديو في PSTN، والتي تشير إلى أنها يمكن أن تقبل إمكانات H.263.

```
:():Oct 4 21:02:17.536: //280/736483928021/H221 :001459
:h221_incoming_handle_mbe
MBE Received=H.263, Length=18
:():Oct 4 21:02:17.536: //280/736483928021/H221 :001460
:h221_incoming_message_entry
Return Code=H221 Partial Message
:():Oct 4 21:02:17.536: //280/736483928021/H221 :001461
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x0
:():Oct 4 21:02:17.536: //280/736483928021/H221 :001462
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x0
```

يتم إنشاء مزامنة الإطارات عبر قناة B-3

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

تتلقى بوابة H.320 المكالمات الثانوية الثالثة

```

:Oct 4 21:02:17.696: ISDN Se2/1:23 Q931 :001465
      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
      :Oct 4 21:02:17.700 :001466
      :-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
:Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001467

      Oct 4 21:02:17.700: :cc_get_feature_vsa malloc success :001468
:Oct 4 21:02:17.700: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001469

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

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

```

اتصال المكالمة الثانوية الثالثة

```

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

```

تم إنشاء مزمنة الإطارات عبر قناة B-4

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

تلقى بوابة H.320 المكالمة الثانوية الرابعة

```
:Oct 4 21:02:18.016: ISDN Se2/1:23 Q931 :001485
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
:Oct 4 21:02:18.020 :001486
:-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
:Oct 4 21:02:18.020: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001487
Oct 4 21:02:18.020: :cc_get_feature_vsa malloc success :001488
:Oct 4 21:02:18.020: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001489
Oct 4 21:02:18.020: cc_get_feature_vsa count is 6 :001490
:Oct 4 21:02:18.020: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001491
:Oct 4 21:02:18.020: :FEATURE_VSA attributes are: feature_name :001492
feature_time:1710266328,feature_id:83,0
:():Oct 4 21:02:18.020: //280/736483928021/H221 :001493
:h221_set_outgoing_bchnl_map
B-Channel=5, Q.931 Connect Indicated=TRUE
:():Oct 4 21:02:18.020: //280/736483928021/H221 :001494
:h221_set_outgoing_bchnl_map
B-Channel(s)=4, Connected=3, Not InSync=0, InSync=4
:Oct 4 21:02:18.020: //285/736483928021/CCAPI/cc_api_call_connected :001495
,(Interface=0x65A8CAD4, Data Bitmask=0x0, Progress Indication=NULL(0
Connection Handle=0
:Oct 4 21:02:18.020: //285/736483928021/CCAPI/cc_api_call_connected :001496
(Call Entry(Connected=TRUE, Responded=FALSE, Retry Count=0
:():Oct 4 21:02:18.024: //280/736483928021/H221 :001497
:h221_set_outgoing_bchnl_map
B-Channel=5, Include B-channel In H.320 Call=TRUE
:():Oct 4 21:02:18.024: //280/736483928021/H221 :001498
:h221_set_outgoing_bchnl_map
B-Channel(s)=5, Connected=4, Not InSync=1, InSync=4
<- Oct 4 21:02:18.024: ISDN Se2/1:23 Q931: TX :001499
CALL_PROC pd = 8 callref = 0x80A3
```

اتصال المكالمة الثانية الرابعة

```
<- Oct 4 21:02:18.024: ISDN Se2/1:23 Q931: TX :001500
      CONNECT pd = 8 callref = 0x80A3
:():Oct 4 21:02:18.032: //280/736483928021/H221 :001501
      :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
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001502
      :h221_incoming_message_entry
      DSP Message Squelch Status=0x0, H221 Squelch Map=0x0

:():Oct 4 21:02:18.036: //280/736483928021/H221 :001503
      :h221_incoming_ns_cap_comm
      Cisco GW non-standard Indication Received, Command=Cisco H.221
      (Version Indication, Version=(1.0
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001504
      :h221_incoming_ns_cap_comm
      Cisco GW non-standard Indication Received, Command=Caps From H.320
      Peer Endpoint Present
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001505
      :h221_incoming_ns_cap_comm
      Cisco GW non-standard Indication Received, Command=H.263 Non-Standard
      Caps, Custom Picture Number=0
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001506
      :h221_incoming_ns_cap_comm
      Standard MPI Received=TRUE, Standard MPI=2
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001507
      :h221_incoming_ns_cap_comm
      (Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001508
      :h221_incoming_ns_cap_comm
      Cisco GW non-standard Indication Received, Command=H.263 Non-Standard
      Caps, Custom Picture Number=1
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001509
      :h221_incoming_ns_cap_comm
      Standard MPI Received=TRUE, Standard MPI=1
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001510
      :h221_incoming_ns_cap_comm
      (Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001511
      :h221_incoming_ns_cap_comm
      Cisco GW non-standard Indication Received, Command=Cisco
      H.221 Minimum Bchannel Caps Indication, B-channel Caps=1
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001512
      :h221_incoming_unsupported_other_mode
      BAS=0x60
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001513
      :h221_incoming_unsupported_other_mode
      BAS=0x70
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001514
      :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
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001515
      :dsmp_h221_check_for_bas_squelch
      H221 Squelch Map=0x0
:():Oct 4 21:02:18.036: //280/736483928021/H221 :001516
      :dsmp_h221_check_for_bas_squelch
```



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

يتم إنشاء مزامنة الإطارات عبر قناة B-4

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

تلقى بوابة H.320 المكالمة الثانية الخامسة

```
:Oct 4 21:02:18.336: ISDN Se2/1:23 Q931 :001526
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
:Oct 4 21:02:18.340 :001527
:-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
:Oct 4 21:02:18.340: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001528
Oct 4 21:02:18.340: :cc_get_feature_vsa malloc success :001529
:Oct 4 21:02:18.340: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001530
Oct 4 21:02:18.340: cc_get_feature_vsa count is 7 :001531
:Oct 4 21:02:18.340: //-1/xxxxxxxxxxxx/CCAPI/cc_get_feature_vsa :001532
```

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

اتصال المكالمة الثانية الخامسة

```
:Oct 4 21:02:18.344: ISDN Se2/1:23 Q931 :001541
TX -> CONNECT pd = 8 callref = 0x80A4
:Oct 4 21:02:18.352: ISDN Se2/1:23 Q931 :001542
RX <- CONNECT_ACK pd = 8 callref = 0x00A4
:Oct 4 21:02:18.356: %ISDN-6-CONNECT :001543
Interface Serial2/1:5 is now connected to 9193926000 N/A
:():Oct 4 21:02:18.532: //280/736483928021/H221 :001544
:dsmpt_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
:():Oct 4 21:02:18.536: //280/736483928021/H221 :001545
:h221_incoming_message_entry
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
:():Oct 4 21:02:18.536: //280/736483928021/H221 :001546
:h221_incoming_handle_mbe
MBE Received=H.263, Length=18
:():Oct 4 21:02:18.536: //280/736483928021/H221 :001547
:h242_incoming_handle_mbe_h263_caps
Identical H.263 Caps Detected, skip parsing
:():Oct 4 21:02:18.536: //280/736483928021/H221 :001548
:h221_incoming_message_entry
Return Code=H221 Partial Message
:():Oct 4 21:02:18.536: //280/736483928021/H221 :001549
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x0
:():Oct 4 21:02:18.536: //280/736483928021/H221 :001550
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x0
```

تم إنشاء مزمنة الإطارات عبر قناة B-6

```
:():Oct 4 21:02:18.656: //280/736483928021/H221 :001551
:h221_set_outgoing_bchnl_map
B-Channel=6, B-channel H.221 Sync=TRUE
:():Oct 4 21:02:18.656: //280/736483928021/H221 :001552
```

```
:h221_set_outgoing_bchnl_map
B-Channel(s)=6, Connected=6, Not InSync=0, InSync=6
:():Oct 4 21:02:19.032: //280/736483928021/H221 :001553
:dsmpt_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
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001554
:h221_incoming_message_entry
DSP Message Squelch Status=0x0, H221 Squelch Map=0x0
```

تستلم عبارة H.320 مجموعة القدرة من نقطة نهاية الفيديو في PSTN

تحدد مجموعة القدرة الحد الأدنى لفواصل الصورة (MPI)، ونسبة العرض، ورمز الصوت، ورمز الفيديو، وعدد القنوات التي تدعمها نقطة نهاية الفيديو.

```
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001555
:h221_incoming_ns_cap_comm
Cisco GW non-standard Indication Received, Command=Cisco
(H.221 Version Indication, Version=(1.0
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001556
:h221_incoming_ns_cap_comm
Cisco GW non-standard Indication Received, Command=Caps From
H.320 Peer Endpoint Present
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001557
:h221_incoming_ns_cap_comm
=Cisco GW non-standard Indication Received, Command
H.263 Non-Standard Caps, Custom Picture Number=0
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001558
:h221_incoming_ns_cap_comm
Standard MPI Received=TRUE, Standard MPI=2
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001559
:h221_incoming_ns_cap_comm
(Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001560
:h221_incoming_ns_cap_comm
=Cisco GW non-standard Indication Received, Command
H.263 Non-Standard Caps, Custom Picture Number=1
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001561
:h221_incoming_ns_cap_comm
Standard MPI Received=TRUE, Standard MPI=1
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001562
:h221_incoming_ns_cap_comm
(Standard Pixel Aspect Ratio Received=TRUE, Aspect Ratio=10:11 (3
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001563
:h221_incoming_ns_cap_comm
=Cisco GW non-standard Indication Received, Command
Cisco H.221 Minimum Bchannel Caps Indication, B-channel Caps=1
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001564
: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
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001565
:h221_incoming_unsupported_other_mode
BAS=0x60
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001566
:h221_incoming_unsupported_other_mode
BAS=0x70
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001567
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x0
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001568
:dsmpt_h221_check_for_bas_squelch
```

ترسل عبارة H.320 مجموعة القدرات إلى نقطة نهاية الفيديو في PSTN

```

:():Oct 4 21:02:19.036: //280/736483928021/H221 :001569
:dsmpt_h221_build_audio_caps_ind
,Audio Codec(s)=G.711 u-law
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001570
:dsmpt_h221_calculate_max_video_bandwidth_internal
Calculation Type=Max Capability, B-Channel(s)=6, Bandwidth=3017
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001571
:dsmpt_h221_build_video_caps_ind
Number Of Caps=1
:():Oct 4 21:02:19.036: //280/736483928021/H221 :001572
:dsmpt_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
:Oct 4 21:02:19.040: //280/736483928021/CCAPI/cc_api_caps_ind :001573
,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
:Oct 4 21:02:19.040: //280/736483928021/CCAPI/cc_api_caps_ind :001574
,(Caps(Playout Mode=1, Playout Initial=60(ms), Playout Min=40(ms)
((Playout Max=250(ms), Fax Nom=300(ms)
Oct 4 21:02:19.044: h323chan_chn_process_read_socket :001575
:Oct 4 21:02:19.044: h323chan_chn_process_read_socket :001576
fd=4 of type CONNECT_PENDING has data

```

تعلن بوابة H.320 عن إمكانيات الصوت (G711ULAW) والفيديو (H.263) من خلال أجهزة الكمبيوتر إلى جهاز IP LEG عبر Polycom

```

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

: 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 receiverRTPAudioTelephonyEventCapability
}
dynamicRTPPayloadType 101
"audioTelephoneEvent "0-16
{
, {
}
}
capabilityTableEntryNumber 3

```

```

capability receiveAudioCapability : g711Ulaw64k : 20
    ,{
    }
    capabilityTableEntryNumber 39
: capability receiveVideoCapability : h263VideoCapability
    }
    sqcifMPI 1
    qcifMPI 1
    cifMPI 1
    cif4MPI 2
    maxBitRate 3017
    unrestrictedVector FALSE
    arithmeticCoding FALSE
    advancedPrediction TRUE
    pbFrames FALSE
temporalSpatialTradeOffCapability FALSE
    errorCompensation FALSE
    h263Options
    }
    advancedIntraCodingMode FALSE
    deblockingFilterMode FALSE
    improvedPBFramesMode FALSE
    unlimitedMotionVectors FALSE
    fullPictureFreeze FALSE
    partialPictureFreezeAndRelease FALSE
    resizingPartPicFreezeAndRelease FALSE
    fullPictureSnapshot FALSE
    partialPictureSnapshot FALSE
    videoSegmentTagging FALSE
    progressiveRefinement FALSE
    dynamicPictureResizingByFour FALSE
dynamicPictureResizingSixteenthPel FALSE
    dynamicWarpingHalfPel FALSE
    dynamicWarpingSixteenthPel FALSE
    independentSegmentDecoding FALSE
    slicesInOrder-NonRect FALSE
    slicesInOrder-Rect FALSE
    slicesNoOrder-NonRect FALSE
    slicesNoOrder-Rect FALSE
    alternateInterVLCMode FALSE
    modifiedQuantizationMode TRUE
    reducedResolutionUpdate FALSE
    separateVideoBackChannel FALSE
    customPictureFormat
    }
    }
    maxCustomPictureWidth 176
    maxCustomPictureHeight 120
    minCustomPictureWidth 176
    minCustomPictureHeight 120
    mPI
    }
    standardMPI 2
    {
: pixelAspectInformation pixelAspectCode
    }
    3
    {
    ,{
    }
    maxCustomPictureWidth 88
    maxCustomPictureHeight 60
    minCustomPictureWidth 88

```

```
minCustomPictureHeight 60
mPI
}
standardMPI 1
{
: pixelAspectInformation pixelAspectCode
}
3
{
{
{
{
{
{
{
capabilityDescriptors
}
}
capabilityDescriptorNumber 1
simultaneousCapabilities
}
}
3
,{
}
39
,{
}
34
{
{
{
{
{
```

```
:=:Oct 4 21:02:19.060: H245 MSC OUTGOING ENCODE BUFFER :001578
0270010600088175000780198000140001000001000001000402040008097C0
66001000100028000218A061404302D313680000220C01380002609FC00000A
0BC820705001001B080000104000AF007700AF00774120400057003B0057003
B40204000800102000002000026000021
:Oct 4 21:02:19.060 :001579
```

[ترسل عبارة H.320 طلب إلى MSD Polycom](#)

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

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

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

h323chan accepted/connected fd=4

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

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

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

:Oct 4 21:02:19.092 :001591

[تستلم بوابة H.320 مجموعة إمكانات الصوت \(G.722 و Polycom \(G.728 و G.711\) والفيديو \(H.263\)](#)

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

```
: 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
                {
            rtcVideoControlCapability 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
{
{
{
{
{

,Oct 4 21:02:19.140: h245_decode_one_pdu: H245ASNDecodePdu rc = 0 :001593
                                bytesLeftToDecode = 0
Oct 4 21:02:19.140: h245_decode_nonstd_cap: parse_tcs_nonstd failed :001594
Oct 4 21:02:19.140: h245_decode_nonstd_cap: parse_tcs_nonstd failed :001595
Oct 4 21:02:19.140: h245_decode_one_pdu: Read Pkt body: more_pdus:0 :001596
                                rc:0 asn_rc:0
:Oct 4 21:02:19.144: //281/736483928021/CCAPI/cc_api_caps_ind :001597
, 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
:Oct 4 21:02:19.144: //281/736483928021/CCAPI/cc_api_caps_ind :001598
                                ,(Caps(Playout Mode=1, Playout Initial=60(ms), Playout Min=40(ms)
                                ((Playout Max=250(ms), Fax Nom=300(ms)
:Oct 4 21:02:19.144: //280/736483928021/CCAPI/cc_api_caps_ack :001599
, 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
:():Oct 4 21:02:19.148: //280/736483928021/H221 :001600
                                :dsmp_h221_decode_ccapi_audio_caps
                                ,Audio Codec(s)=G.711 u-law
:():Oct 4 21:02:19.148: //280/736483928021/H221 :001601
                                :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
:():Oct 4 21:02:19.148: //280/736483928021/H221 :001602
                                :h221_outgoing_message_entry
                                Outgoing BAS Command=Send Caps

```

[ترسل بوابة H.320 TCS إلى Polycom](#)

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


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

```
Oct 4 21:02:19.148: H245 MSC OUTGOING ENCODE BUFFER ::= 218001 :001604
:Oct 4 21:02:19.148 :001605
```

```
Oct 4 21:02:19.148: h323chan_chn_process_read_socket :001606
```

```
:Oct 4 21:02:19.148: h323chan_chn_process_read_socket :001607
fd=4 of type CONNECTED has data
```

```
:Oct 4 21:02:19.148: h323chan_chn_process_read_socket :001608
h323chan accepted/connected fd=4
```

```
,Oct 4 21:02:19.148: h245_decode_one_pdu: more_pdus = 0 :001609
bytesLeftToDecode = 7
```

```
:::Oct 4 21:02:19.148: H245 MSC INCOMING ENCODE BUFFER :001610
01003280741139
```

```
:Oct 4 21:02:19.148 :001611
```

[تستلم بوابة H.320 طلب MSD من Polycom](#)

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

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

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

```
:Oct 4 21:02:19.152: h245_decode_one_pdu: Read Pkt body :001614
more_pdus:0 rc:0 asn_rc:0
```

[ترسل بوابة H.320 MSD ACK إلى Polycom](#)

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

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

```
Oct 4 21:02:19.152: H245 MSC OUTGOING ENCODE BUFFER ::= 20A0 :001616
:Oct 4 21:02:19.152 :001617
```

```
Oct 4 21:02:19.152: h323chan_chn_process_read_socket :001618
```

```
:Oct 4 21:02:19.152: h323chan_chn_process_read_socket :001619
fd=4 of type CONNECTED has data
```

```
:Oct 4 21:02:19.152: h323chan_chn_process_read_socket :001620
h323chan accepted/connected fd=4
```

```
,Oct 4 21:02:19.152: h245_decode_one_pdu: more_pdus = 0 :001621
bytesLeftToDecode = 3
```

```
Oct 4 21:02:19.152: H245 MSC INCOMING ENCODE BUFFER ::= 218001 :001622
:Oct 4 21:02:19.152 :001623
```

[تستلم بوابة H.320 TCS ACK من Polycom](#)

```

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

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

,Oct 4 21:02:19.152: h245_decode_one_pdu: H245ASNDecodePdu rc = 0 :001625
bytesLeftToDecode = 0
:Oct 4 21:02:19.152: h245_decode_one_pdu: Read Pkt body :001626
more_pdus:0 rc:0 asn_rc:0
:Oct 4 21:02:19.152: //281/736483928021/CCAPI/cc_api_caps_ack :001627
, 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
Oct 4 21:02:19.152: h323chan_chn_process_read_socket :001628
:Oct 4 21:02:19.152: h323chan_chn_process_read_socket :001629
fd=4 of type CONNECTED has data
:Oct 4 21:02:19.152: h323chan_chn_process_read_socket :001630
h323chan accepted/connected fd=4

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

```

[تستلم بوابة H.320 MSD ACK من Polycom](#)

```

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

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

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

```

[تستلم بوابة H.320 الصوت \(G.711 OLC\) من Polycom](#)

عنوان RTCP الخاص ب Polycom: منفذ دفع الصوت هو 14.50.52:49195.

```

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

: value MultimediaSystemControlMessage ::= request : openLogicalChannel
}
forwardLogicalChannelNumber 2

```

```

        forwardLogicalChannelParameters
        }
        dataType audioData : g711Ulaw64k : 20
: multiplexParameters h2250LogicalChannelParameters
        }
        sessionID 1
: mediaControlChannel unicastAddress : ipAddress
        }
        network '0E320534'H
        tsapIdentifier 49195
        {
        {
        {
        {

,Oct 4 21:02:19.172: h245_decode_one_pdu: H245ASNDcodePdu rc = 0 :001644
        bytesLeftToDecode = 0
:Oct 4 21:02:19.172: h245_decode_one_pdu: Read Pkt body :001645
        more_pdus:0 rc:0 asn_rc:0
:Oct 4 21:02:19.172: //281/736483928021/CCAPI/cc_api_event_indication :001646
        Event=140, Call Id=281
:Oct 4 21:02:19.172: //281/736483928021/CCAPI/cc_api_event_indication :001647
        Event Is Sent To Conferenced SPI(s) Directly
:():Oct 4 21:02:19.176: //280/736483928021/H221 :001648
        :dsmp_h221_set_outgoing_requested_audio_mode
        Outgoing Audio Mode=G.711 u-law 56k

```

[تعمل بوابة H.320 على تعيين وضع الصوت الصادر عبر POTS LEG](#)

```

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

```

[ترسل بوابة H.320 مكس صوت OLC إلى Polycom](#)

عنوان RTP و RTCP الخاص ببوابة H.320: منفذ لتدفق الصوت هو 14.1.16.220:18718 و 14.1.16.220:18719.

```

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

: 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
{
{
}
}

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

,Oct 4 21:02:19.204: h245_decode_one_pdu: more_pdus = 0 :001661
bytesLeftToDecode = 63
=::Oct 4 21:02:19.204: H245 MSC INCOMING ENCODE BUFFER :001662
0300000208FE0000050BC100705001001B080000104000AF007700AF007741204000
57003B0057003B4020408011046002000E320534C02D04000448097CC0
:Oct 4 21:02:19.204 :001663

```

[تستلم بوابة H.320 الفيديو \(H.263 OLC\) من Polycom](#)

عنوان RTCP الخاص ب Polycom: منفذ لتدفق الفيديو هو 14.50.52:49197.

[تم تعيين نوع حمولة RTP لتدفق فيديو H.263 من Polycom إلى عبارة H.320 إلى 96](#)

```

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

: 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

```

```
{
{
{
{
,Oct 4 21:02:19.216: h245_decode_one_pdu: H245ASNDcodePdu rc = 0 :001665
bytesLeftToDecode = 0
:Oct 4 21:02:19.216: h245_decode_one_pdu: Read Pkt body :001666
more_pdus:0 rc:0 asn_rc:0
:Oct 4 21:02:19.216: //281/736483928021/CCAPI/cc_api_event_indication :001667
Event=140, Call Id=281
:Oct 4 21:02:19.216: //281/736483928021/CCAPI/cc_api_event_indication :001668
Event Is Sent To Conferenced SPI(s) Directly
تقوم عبارة H.320 بتعسين وضع الفيديو الصادر عبر POTS LEG
```

```
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001669
:dsmpt_h221_set_outgoing_requested_video_mode
Outgoing Video Mode=H.263
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001670
:h221_lock_video_mode
Incoming Video Mode=OFF, Outgoing Video Mode=H.263
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001671
:h221_outgoing_message_entry
Outgoing BAS Command=Send Caps
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001672
:dsmpt_h221_populate_config_rtp_params
Direction=Outgoing, Type=Video
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001673
:dsmpt_h221_populate_config_rtp_params
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001674
:dsmpt_h221_populate_config_rtp_params
Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x60
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001675
:dsmpt_h221_calculate_max_video_bandwidth_internal
Calculation Type=Flow Control, B-Channel(s)=6, Bandwidth=3017
:():Oct 4 21:02:19.216: //280/736483928021/H221 :001676
:dsmpt_h221_populate_flow_control_internal
Video Flow Control, Value=3017, Bandwidth Calculated From H.320 Legs=3017
:Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication :001677
Event=141, Call Id=280
:Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication :001678
Event Is Sent To Conferenced SPI(s) Directly
:Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication :001679
Event=151, Call Id=280
:Oct 4 21:02:19.220: //280/736483928021/CCAPI/cc_api_event_indication :001680
Event Is Sent To Conferenced SPI(s) Directly
ترسل عبارة H.320 Video OLC ACK إلى Polycom
```

RTP و RTCP ل عبارة H.320:منفذ لتدفق الفيديو هو 14.1.16.220:18078 و 14.1.16.220:18079.

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

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

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

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

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

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

,Oct 4 21:02:19.224: h245_decode_one_pdu: H245ASNDcodePdu rc = 0 :001694
bytesLeftToDecode = 0
:Oct 4 21:02:19.224: h245_decode_one_pdu: Read Pkt body :001695
more_pdus:0 rc:0 asn_rc:0
:Oct 4 21:02:19.224: //281/736483928021/CCAPI/cc_api_event_indication :001696
Event=151, Call Id=281
:Oct 4 21:02:19.224: //281/736483928021/CCAPI/cc_api_event_indication :001697
Event Is Sent To Conferenced SPI(s) Directly
:Oct 4 21:02:19.224 :001698

```

ترسل عبارة H.320 إشارة الصوت الخاصة بالتحكم بالنشط والمعلومات إلى نقطة نهاية الفيديو البعيدة في PSTN

يرسل المسار H.320 إشارة الصوت يشير إلى التحكم بالنشط والمعلومات إلى نقطة نهاية الفيديو البعيدة في PSTN من أجل تنشيط قناة الصوت.

```

:H221:():h221_outgoing_message_entry/280/736483928021//
Outgoing BAS Command=Send Miscellaneous
:():Oct 4 21:02:19.224: //280/736483928021/H221 :001699

```

```

                :h221_outgoing_send_misc_cmd_indication
                Send Miscellaneous Command=Audio Channel Active
Oct 4 21:02:19.248: h323chan_chn_process_read_socket :001700
:Oct 4 21:02:19.248: h323chan_chn_process_read_socket :001701
                    fd=4 of type CONNECTED has data
:Oct 4 21:02:19.248: h323chan_chn_process_read_socket :001702
                    h323chan accepted/connected fd=4

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

: value MultimediaSystemControlMessage ::= indication : flowControlIndication
    }
    scope logicalChannelNumber : 3
    restriction maximumBitRate : 3010
    {

,Oct 4 21:02:19.248: h245_decode_one_pdu: H245ASNDecodePdu rc = 0 :001707
                    bytesLeftToDecode = 0
:Oct 4 21:02:19.248: h245_decode_one_pdu: Read Pkt body :001708
                    ore_pdus:0 rc:0 asn_rc:0
:():Oct 4 21:02:19.532: //280/736483928021/H221 :001709
                    :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
                    :Oct 4 21:02:19.536 :001710

```

.Some debug outputs have been removed ---!

تعمل نقطة نهاية الفيديو في PSTN على تعيين معدل النقل ووضع الصوت

```

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

```


Event Is Sent To Conferenced SPI(s) Directly
[ترسل عبارة H.320 الصوت \(G.711 OLC\) إلى Polycom](#)

عنوان RTCP الخاص ببوابة H.320:منفذ لتدفق الصوت هو 14.1.16.220:18719.

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

: 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
{
{
{

==:Oct 4 21:02:24.040: H245 MSC OUTGOING ENCODE BUFFER :001826
0300000000C6013800B050001000E0110DC491F00
:Oct 4 21:02:24.040 :001827
Oct 4 21:02:24.052: h323chan_chn_process_read_socket :001828
:Oct 4 21:02:24.052: h323chan_chn_process_read_socket :001829
fd=4 of type CONNECTED has data
:Oct 4 21:02:24.052: h323chan_chn_process_read_socket :001830
h323chan accepted/connected fd=4

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

[تستلم بوابة H.320 Audio OLC ACK من Polycom](#)

RTP و RTCP من Polycom:منفذ لتدفق الصوت هو 14.50.5.52:49194 و 14.50.5.52:49195.

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

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

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

=.:Oct 4 21:02:24.056: RAS OUTGOING ENCODE BUFFER :001840
320008021E0036003500370036003600430036004300300030003000300030003
00030003173648392532211DB8021000D28D3D7C0001C401C8415080011007365
1FB9532211DB817D90162806D3F10100
.Oct 4 21:02:24.056: h323chan_dgram_send:Sent UDP msg :001841
Bytes sent: 81 to 14.50.3.101:1719 fd=2

:Oct 4 21:02:24.056: RASLib::GW_RASSendBRQ :001842
BRQ (seq# 2051) sent to 14.50.3.101
:( )Oct 4 21:02:24.056: //280/736483928021/H221 :001843
:dsmph221_populate_config_rtp_params
Direction=Incoming, Type=Audio
:( )Oct 4 21:02:24.056: //280/736483928021/H221 :001844
:dsmph221_populate_config_rtp_params
Audio Mode=G.711 u-law 56k, Coding Type=0x65, Channel Mask=0xFE
Oct 4 21:02:24.060: h323chan_chn_process_read_socket :001845
:Oct 4 21:02:24.060: h323chan_chn_process_read_socket :001846
fd=2 of type CONNECTED has data
:Oct 4 21:02:24.060: h323chan_chn_process_read_socket :001847
h323chan accepted/connected fd=2

Oct 4 21:02:24.060: h323chan_dgram_rcvdata:rcvd from :001848
on fd=2 [14.50.3.101:1719]

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

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

```

Some debug outputs are removed ---!

تعمل نقطة نهاية الفيديو في PSTN على تعيين وضع الفيديو

```
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001870
:h221_incoming_video_mode
Incoming Video Mode=H.263
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001871
:dsmph221_video_mode
Video Mode=H.263
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001872
:h221_incoming_unsupported_other_mode
BAS=0x60
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001873
:h221_incoming_unsupported_other_mode
BAS=0x70
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001874
:h221_incoming_handle_table_4_H230
Handling H.230 BAS=0x3
```

تستقبل بوابة H.320 إشارة الصوت الخاصة بالتحكم بالنشط والمعلومات من نقطة نهاية الفيديو البعيدة في PSTN

تتلقى بوابة H.320 إشارة صوت تشير إلى تحكم نشط ومعلومات من نقطة نهاية الفيديو البعيدة في PSTN لتنشيط قناة الصوت.

```
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001875
:dsmph221_misc_command
Received Miscellaneous Command=Audio Channel Active
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001876
:h221_incoming_message_entry
Return Code=H221 Partial Message
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001877
:dsmph221_check_for_bas_squelch
H221 Squelch Map=0x0
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001878
:dsmph221_check_for_bas_squelch
H221 Squelch Map=0x1
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001879
:h221_lock_video_mode
Incoming Video Mode=H.263, Outgoing Video Mode=H.263
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001880
:h221_outgoing_message_entry
Outgoing BAS Command=Send Mode
:():Oct 4 21:02:25.036: //280/736483928021/H221 :001881
:dsmph221_calculate_max_video_bandwidth_internal
Calculation Type=Max Capability, B-Channel(s)=6, Bandwidth=3017
:Oct 4 21:02:25.036 :001882
:CCAPI/cc_api_event_indication/280/736483928021//
Event=140, Call Id=280
:Oct 4 21:02:25.036 :001883
:CCAPI/cc_api_event_indication/280/736483928021//
Event Is Sent To Conferenced SPI(s) Directly
:Oct 4 21:02:25.036 :001884
:CCAPI/cc_api_event_indication/280/736483928021//
Event=151, Call Id=280
:Oct 4 21:02:25.040 :001885
:CCAPI/cc_api_event_indication/280/736483928021//
Event Is Sent To Conferenced SPI(s) Directly
```

ترسل عبارة H.320 فيديو H.263 (OLC) إلى Polycom

عنوان RTCP الخاص ببوابة H.320: منفذ لتدفق الفيديو هو 14.1.16.220:18079.

تم تعيين نوع حمولة RTP لتدفق فيديو H.263 من بوابة H.320 إلى Polycom إلى 110

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

```
: 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
{
{
{
{

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

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

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

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

```

22C000010480101C02000E320534C02C000E320534C02D

:Oct 4 21:02:25.068 :001897

[تستلم بوابة H.320 Video OLC ACK من Polycom](#)

عنوان RTP و RTCP الخاص ب Polycom: منفذ لتدفق الفيديو هو 14.50.5.52:49196 و 14.50.5.52:49197.

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

```
: 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
    {
    {
    {
```

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

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

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

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

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

Direction=Incoming, Type=Video

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

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

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

Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x6E

:():Oct 4 21:02:25.072: //280/736483928021/H221 :001906
:dsmp_h221_populate_config_rtp_params

Direction=Outgoing, Type=Video

:():Oct 4 21:02:25.072: //280/736483928021/H221 :001907
:dsmp_h221_populate_config_rtp_params

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

:():Oct 4 21:02:25.072: //280/736483928021/H221 :001908
:dsmp_h221_populate_config_rtp_params

Video Mode=H.263, Coding Type=0xC9, RFC Number=0x2, Payload Type=0x60

Oct 4 21:02:25.072: h323chan_chn_process_read_socket :001909

:Oct 4 21:02:25.072: h323chan_chn_process_read_socket :001910
fd=4 of type CONNECTED has data

:Oct 4 21:02:25.076: h323chan_chn_process_read_socket :001911
h323chan accepted/connected fd=4

,Oct 4 21:02:25.076: h245_decode_one_pdu: more_pdus = 0 :001912
bytesLeftToDecode = 7

```

Oct 4 21:02:25.076: H245 MSC INCOMING ENCODE BUFFER::= 48000001200C80 :001913
:Oct 4 21:02:25.076 :001914
=.: Oct 4 21:02:25.076: H245 MSC INCOMING PDU :001915

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

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

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

```

[تستلم بوابة H.320 طلب صورة تحديث سريع للفيديو \(VFU\) من Polycom](#)

في هذا الإخراج، تتلقى بوابة H.320 طلب صورة VFU من Polycom، والذي يشير إلى أنها جاهزة لتلقي تدفق فيديو.

```

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

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

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

```

ترسل عبارة H.320 إشارة معلومات والتحكم في صورة التحديث السريع للفيديو إلى نقطة نهاية الفيديو في PSTN

```
:H221:():h221_outgoing_send_misc_cmd_indication/280/736483928021//  
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
```

تستلم بوابة H.320 أمر التحكم في التدفق من Polycom

```
=:: Oct 4 21:02:26.168: H245 MSC INCOMING PDU :001977  
  
: value MultimediaSystemControlMessage ::= command : flowControlCommand  
} scope logicalChannelNumber : 2  
restriction maximumBitRate : 3200  
{  
  
,Oct 4 21:02:26.168: h245_decode_one_pdu: H245ASNDcodePdu rc = 0 :001978  
bytesLeftToDecode = 0  
:Oct 4 21:02:26.168: h245_decode_one_pdu: Read Pkt body :001979  
more_pdus:0 rc:0 asn_rc:0  
:Oct 4 21:02:26.168: //281/736483928021/CCAPI/cc_api_event_indication :001980  
Event=151, Call Id=281  
:Oct 4 21:02:26.168: //281/736483928021/CCAPI/cc_api_event_indication :001981  
Event Is Sent To Conferenced SPI(s) Directly  
:():Oct 4 21:02:26.168: //280/736483928021/H221 :001982  
:h221_outgoing_message_entry  
Outgoing BAS Command=Send Miscellaneous  
:Oct 4 21:02:26.168 :001983
```

ترسل عبارة H.320 أمر التحكم في التدفق إلى نقطة نهاية الفيديو في PSTN

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

Some debug outputs have been removed ---!

ترسل عبارة H.320 أمر التحكم في التدفق إلى Polycom

تلقى بوابة H.320 أمر التحكم في التدفق من نقطة نهاية الفيديو في PSTN

```
:():Oct 4 21:02:26.536: //280/736483928021/H221 :002005  
:h221_incoming_ns_cap_comm  
Cisco GW non-standard Indication Received, Command=Flow Control, Value=3200  
:Oct 4 21:02:26.536: //280/736483928021/H221:():dsmp_h221_misc_command :002006  
Received Miscellaneous Command=Flow Control  
:():Oct 4 21:02:26.536: //280/736483928021/H221 :002007  
:dsmp_h221_calculate_max_video_bandwidth_internal  
Calculation Type=Flow Control, B-Channel(s)=6, Bandwidth=3017  
:():Oct 4 21:02:26.536: //280/736483928021/H221 :002008  
: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
:( ) : Oct 4 21:02:26.536: //280/736483928021/H221 :002009
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x1
:( ) : Oct 4 21:02:26.536: //280/736483928021/H221 :002010
:dsmpt_h221_check_for_bas_squelch
H221 Squelch Map=0x1
: Oct 4 21:02:26.536: //280/736483928021/CCAPI/cc_api_event_indication :002011
Event=151, Call Id=280
: Oct 4 21:02:26.536: //280/736483928021/CCAPI/cc_api_event_indication :002012
Event Is Sent To Conferenced SPI(s) Directly
```

ترسل عبارة H.320 أمر التحكم في التدفق إلى Polycom

```
=.: Oct 4 21:02:26.536: H245 MSC OUTGOING PDU :002013
: value MultimediaSystemControlMessage ::= command : flowControlCommand
}
scope logicalChannelNumber : 3
restriction maximumBitRate : 3017
{
```

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

Some debug outputs have been removed ---!

تعمل نقطة نهاية الفيديو في PSTN على قطع اتصال مكالمة الفيديو

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

Cause i = 0x829F - Normal, unspecified
:Oct 4 21:03:14.239: %ISDN-6-DISCONNECT :002149
, Interface Serial2/1:4 disconnected from 9193926000
call lasted 56 seconds
:Oct 4 21:03:14.239: %ISDN-6-DISCONNECT :002150
, Interface Serial2/1:5 disconnected from 9193926000
call lasted 55 seconds
:Oct 4 21:03:14.239: %ISDN-6-DISCONNECT :002151
, Interface Serial2/1:0 disconnected from 9193926000
call lasted 57 seconds
:Oct 4 21:03:14.239: ISDN Se2/1:23 Q931 :002152
RX <- RELEASE_COMP pd = 8 callref = 0x00A0
:Oct 4 21:03:14.243: ISDN Se2/1:23 Q931 :002153
TX -> RELEASE pd = 8 callref = 0x80A3
:Oct 4 21:03:14.243: ISDN Se2/1:23 Q931 :002154
TX -> RELEASE pd = 8 callref = 0x80A4
:Oct 4 21:03:14.243: ISDN Se2/1:23 Q931 :002155
TX -> RELEASE pd = 8 callref = 0x809F
:Oct 4 21:03:14.243: ISDN Se2/1:23 Q931 :002156
RX <- RELEASE_COMP pd = 8 callref = 0x00A1
:Oct 4 21:03:14.243 :002157
:CCAPI/cc_api_call_disconnected/280/736483928021//
Cause Value=31, Interface=0x65A8CAD4, Call Id=280
:Oct 4 21:03:14.243 :002158
:CCAPI/cc_api_call_disconnected/280/736483928021//
(Call Entry(Responded=TRUE, Cause Value=31, Retry Count=0
:Oct 4 21:03:14.243: ISDN Se2/1:23 Q931 :002159
RX <- RELEASE_COMP pd = 8 callref = 0x00A2
:Oct 4 21:03:14.247: //280/736483928021/CCAPI/ccConferenceDestroy :002160
Conference Id=0x12, Tag=0x0
:Oct 4 21:03:14.247: //280/xxxxxxxxxxxx/CCAPI/cc_api_bridge_drop_done :002161
,Conference Id=0x12, Source Interface=0x65A8CAD4, Source Call Id=280
Destination Call Id=281, Disposition=0x0, Tag=0x0
:Oct 4 21:03:14.247: //281/xxxxxxxxxxxx/CCAPI/cc_api_bridge_drop_done :002162
,Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281
Destination Call Id=280, Disposition=0x0, Tag=0x0
:Oct 4 21:03:14.247: //280/736483928021/CCAPI/cc_generic_bridge_done :002163
,Conference Id=0x12, Source Interface=0x65D7A87C, Source Call Id=281
Destination Call Id=280, Disposition=0x0, Tag=0x0
:Oct 4 21:03:14.247: ISDN Se2/1:23 Q931 :002164
RX <- RELEASE_COMP pd = 8 callref = 0x00A3
:Oct 4 21:03:14.255: ISDN Se2/1:23 Q931 :002165
RX <- RELEASE_COMP pd = 8 callref = 0x00A4
:Oct 4 21:03:14.255: ISDN Se2/1:23 Q931 :002166
RX <- RELEASE_COMP pd = 8 callref = 0x009F
:Oct 4 21:03:14.255: //280/736483928021/CCAPI/ccCallDisconnect :002167
,Cause Value=31, Tag=0x0, Call Entry(Previous Disconnect Cause=0
(Disconnect Cause=31
:Oct 4 21:03:14.255: //280/736483928021/CCAPI/ccCallDisconnect :002168
(Cause Value=31, Call Entry(Responded=TRUE, Cause Value=31
:Oct 4 21:03:14.255: //280/736483928021/CCAPI/cc_api_get_transfer_info :002169
Transfer Number Is Null
:Oct 4 21:03:14.255: //281/736483928021/CCAPI/ccCallDisconnect :002170
,Cause Value=31, Tag=0x0, Call Entry(Previous Disconnect Cause=0
(Disconnect Cause=0
:Oct 4 21:03:14.255: //281/736483928021/CCAPI/ccCallDisconnect :002171
(Cause Value=31, Call Entry(Responded=TRUE, Cause Value=31
:Oct 4 21:03:14.259: //281/736483928021/CCAPI/cc_api_get_transfer_info :002172
Transfer Number Is Null
:Oct 4 21:03:14.259 :002173
:CCAPI/cc_api_call_disconnect_done/282/736483928021//
,Disposition=0, Interface=0x65A8CAD4, Tag=0x0, Call Id=282
(Call Entry(Disconnect Cause=0, Voice Class Cause Code=0, Retry Count=0
:Oct 4 21:03:14.259 :002174

```
:CCAPI/cc_api_call_disconnect_done/282/736483928021//
      Call Disconnect Event Sent
:Oct 4 21:03:14.259: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa :002175

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

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

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

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

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

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

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

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

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

      =::Oct 4 21:03:14.263: H225 NONSTD OUTGOING ENCODE BUFFER :002198
      6001020001082C0802829F1C269E8100036774640000001B52454C2C0D0A50524
      E2C6973646E2A2C2C4E492A2A2A2C0D0A0D0A
      :Oct 4 21:03:14.263 :002199
```

تعمل بوابة H.320 على مسح المكالمة على IP LEG

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

```
        ::= 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
        }
        {
        {
        {
```

==:Oct 4 21:03:14.271: H225.0 OUTGOING ENCODE BUFFER :002201

```
2580060008914A00041100110073651FB9532211DB817D90162806D3
F110A801003A0140B5000012336001020001082C0802829F1C269E81
00036774640000001B52454C2C0D0A50524E2C6973646E2A2C2C4E49
2A2A2A2C0D0A0D0A224204677464011B52454C2C0D0A50524E2C6973
646E2A2C2C4E492A2A2A2C0D0A0D0A
:Oct 4 21:03:14.271 :002202
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
=.: Oct 4 21:03:14.271: H225 NONSTD OUTGOING PDU :002203

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

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

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

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

[ترسل عبارة H.320 DRQ إلى برنامج حماية البوابة](#)

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

```
      : 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
{

=::Oct 4 21:03:14.275: RAS OUTGOING ENCODE BUFFER :002210
3F08041E003600350037003600360043003600430030003000300030003000
300030003173648392532211DB8021000D28D3D7C0001C28B50000121E4000
1A52454C2C0D0A50524E2C6973646E2A2C2C4E492A2A2A2C0D0A0D0A1908C0
110073651FB9532211DB817D90162806D3F1010014300140B5000012024800
C045242157C04524219005440802809F
.Oct 4 21:03:14.279: h323chan_dgram_send:Sent UDP msg :002211
Bytes sent: 140 to 14.50.3.101:1719 fd=2

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

Oct 4 21:03:14.279: h323chan_dgram_rcvdata:rcvd :002216
from [14.50.3.101:1719] on fd=2

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

: value RasMessage ::= disengageConfirm
}
requestSeqNum 2053
{

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

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

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

```

```

:CCAPI/cc_api_call_disconnect_done/280/736483928021//
Call Disconnect Event Sent
:Oct 4 21:03:14.291: //-1/xxxxxxxxxxxx/CCAPI/cc_free_feature_vsa :002230

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

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

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

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

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

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

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

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

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

```

معلومات ذات صلة

- [استكشاف أخطاء خدمة IP الهاتفية من Cisco وإصلاحها](#)
- [التكوين الأساسي للمنطقين من Cisco من العبارة إلى برنامج حماية البوابة](#)
- [التحكم بإذن دخول المكالمات لعبارة H.323 VoIP](#)
- [VoIP مع برنامج حماية البوابة](#)
- [الدعم التقني والمستندات - Cisco Systems](#)

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