

# 基本的なコール録音の設定およびトラブルシューティング

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## 概要

このドキュメントでは、Cisco Unified Communications Manager(CUCM)内のコール録音の基本について説明します。

## 前提条件

### 要件

サードパーティ製の録音サーバと統合されたCUCMに関する知識があることが推奨されます。

### 使用するコンポーネント

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

- CUCM
- Cisco Internet Protocol(IP)
- Phone Call Recording Server

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。本稼働中のネットワークでは、各コマンドによって起こる可能性がある影響を十分確認してください。

## 背景説明

また、予想されるメディアフロー、Session Initiation Protocol(SIP)および Skinny Client Control Protocol(SCCP)デバイスの予想されるコールフロー、および一般的なタイプのコール録音セットアップ障害の例についても説明します。

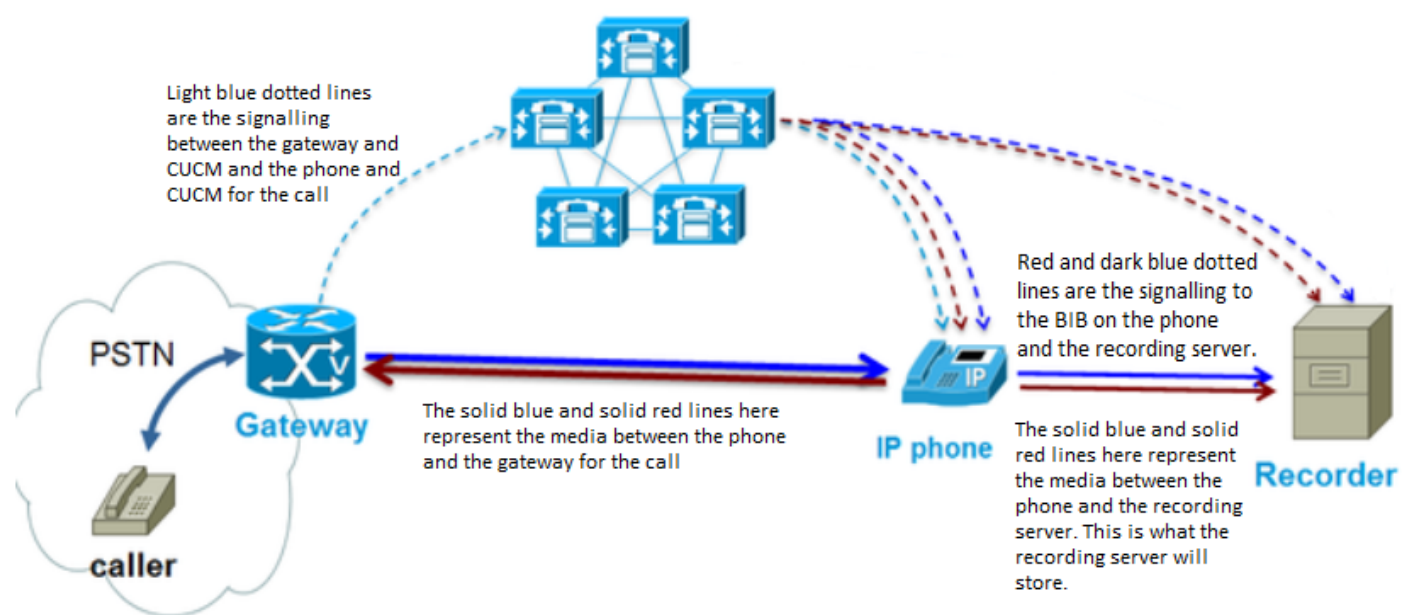
## コール録音のタイプ

### 自動

自動コール録音の主な要素は次のとおりです。

- 録音の宛先に音声を送信するために、IP PhoneのBuilt-In-Bridge(BIB)を使用
- IP Phoneがコールを発信または受信するたびに開始される
- CUCMと録音先の間に必要なのはSIPトランクだけです。一部の録音ベンダーでは、コンピュータテレフォニーインテグレーション(CTI)が必要です
- 管理対象ネットワークの外部にある電話機の録音を許可しない（RTPを録音サーバに直接送信するアクセス権を持ち、BIBを割り当てることができるCisco IP Phoneである必要がある）

次の図では、実線は予想されるメディアフローを表し、破線は予想されるシグナリングフローを表しています。

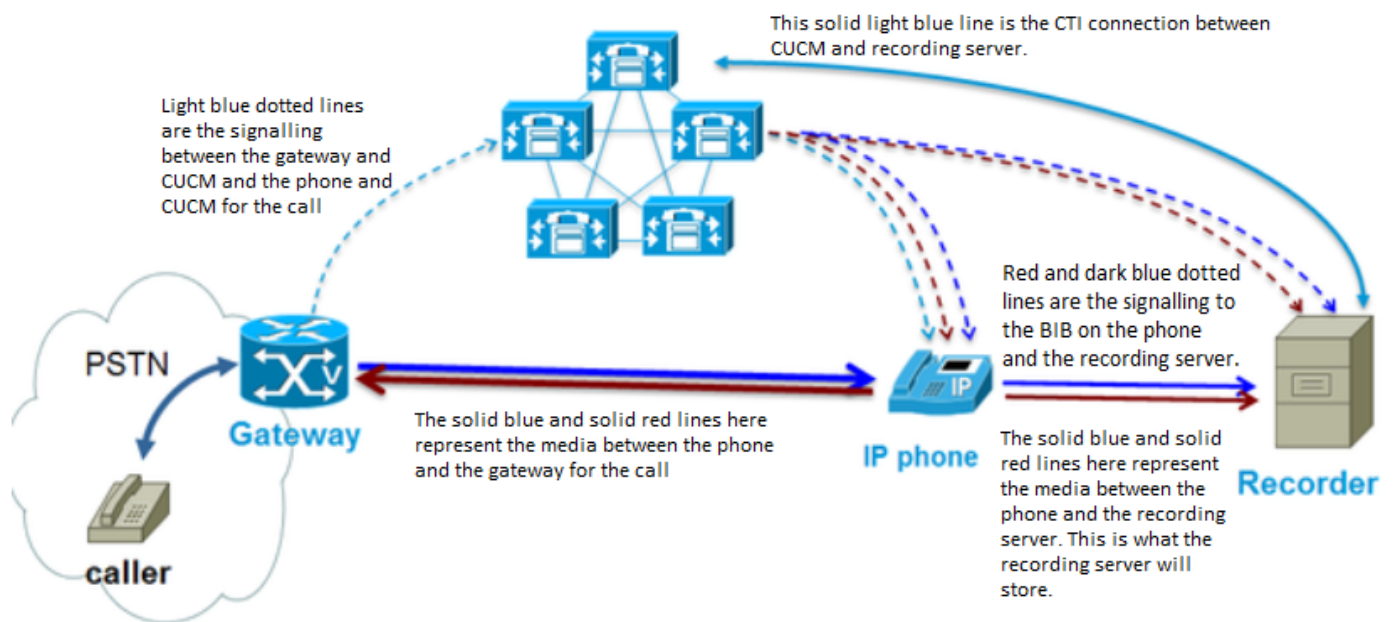


### 呼び出されたアプリケーション

アプリケーションが呼び出すコール録音の主な要素は次のとおりです。

- 録音の宛先に音声を送信するために、IPフォンのBIBを使用します。
- アプリケーション (レコーダー) が開始する必要があると指示したときに開始されます。
- 録音アプリケーションを使用するSIPトランクおよびCTIが必要
- CTIアプリケーションユーザは、記録する必要があるエンドポイントにアクセスできる必要があります
- 管理ネットワークの外部にある電話機の録音を許可しない (RTPを録音サーバに直接送信するアクセス権が必要)

次の図では、実線は予想されるメディアフローを表し、破線は予想されるシグナリングフローを表しています。CUCMとレコーディングサーバ間の実線は、CUCMとアプリケーション間のCTI接続を示します。

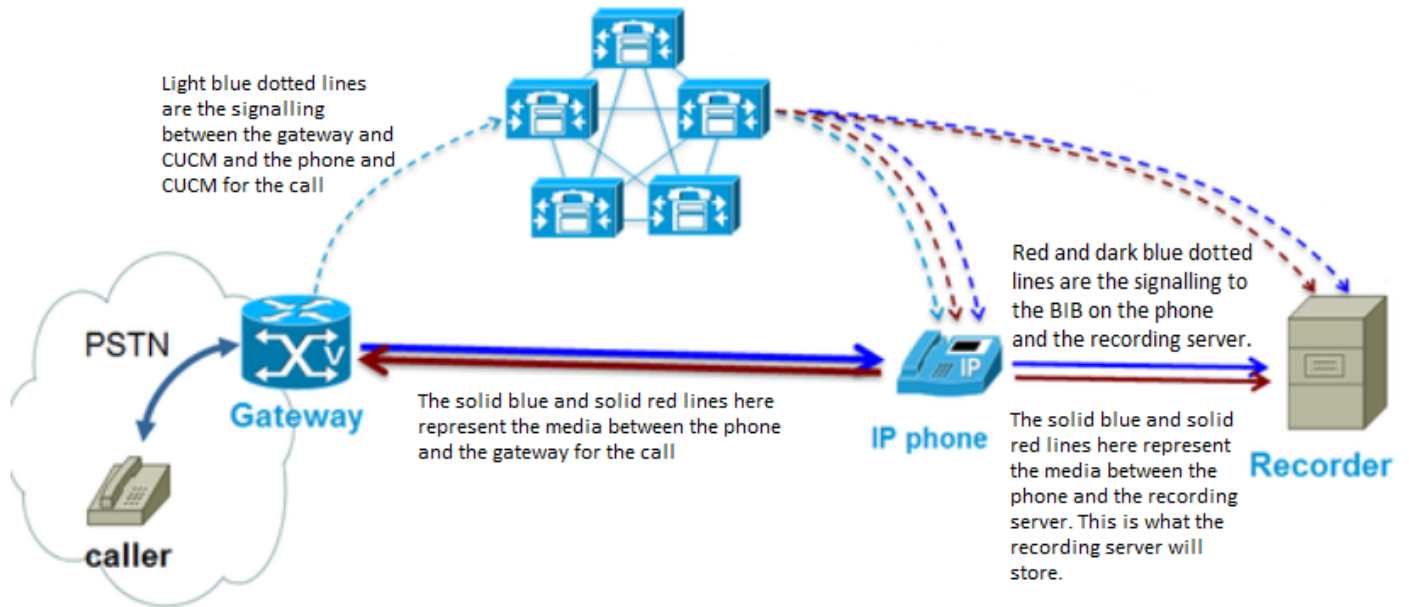


## 選択的

選択的コール録音の主な要素は次のとおりです。

- 録音の宛先に音声を送信するために、IPフォンのBIBを使用します。
- IP PhoneユーザがIP Phone(CUCM 9.x+)または次の図のようなアプリケーションで録音オプションを選択するたびに開始**されます**
- 通常、CUCMと録音先の間に必要なのはSIPトランクのみ (録音アプリケーションベンダーによって異なる)
- 管理ネットワーク外にある電話機の録音を許可しない (RTPを録音サーバに直接送信するアクセス権が必要)

次の図に示すように、メディアとシグナリングパスは自動コール録音と非常によく似ています。

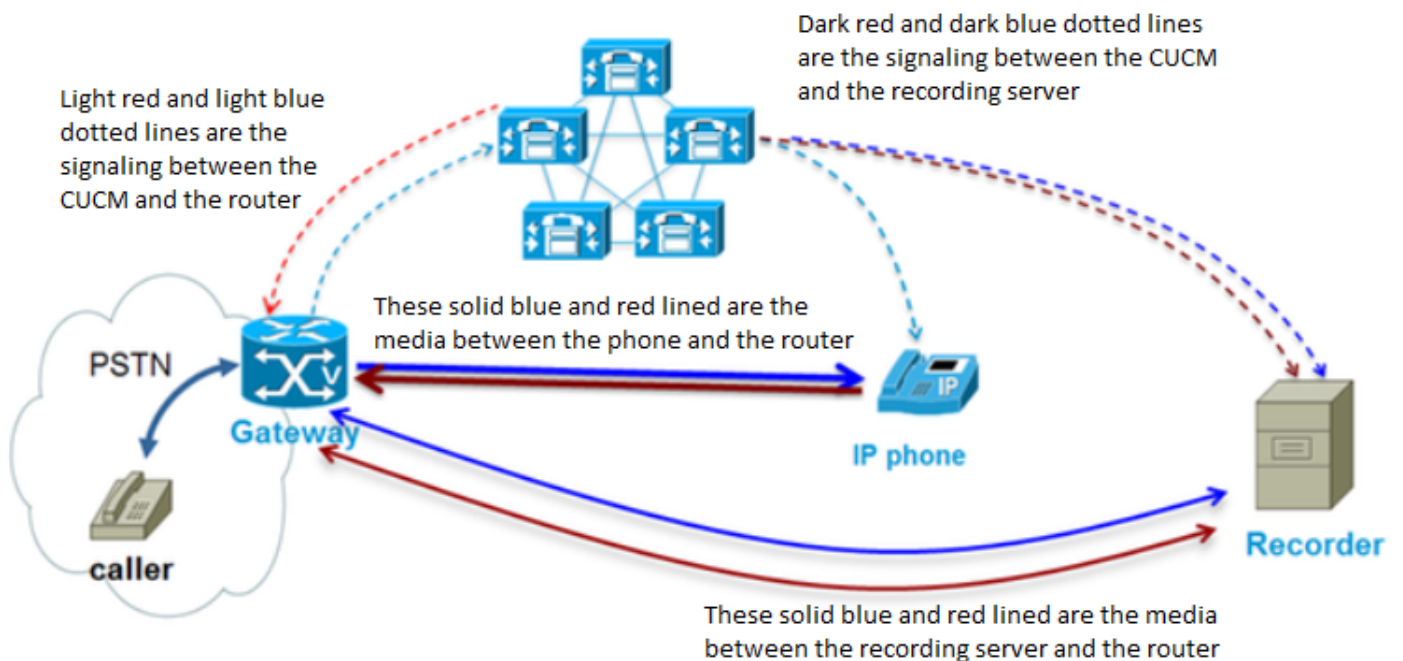


## ゲートウェイベース

ゲートウェイベースのコール録音の主な要素は次のとおりです。

- 音声ゲートウェイは、メディアを録音宛先に向けて分岐します
- CUCMがゲートウェイにアプリケーションとして登録される
- CUCMはHTTPを使用して、ゲートウェイ(GW)に対してメディアを記録先にストリーミングするように指示します
- CUCMはSIPトランクを介して録音先と統合される
- マネージドネットワーク(たとえば、モバイルユーザ)を通過するだけのコールや、BIBをサポートしていない電話機のコールを録音できます。

この図からわかるように、メディアフローは他のタイプのコール録音とはまったく異なります。

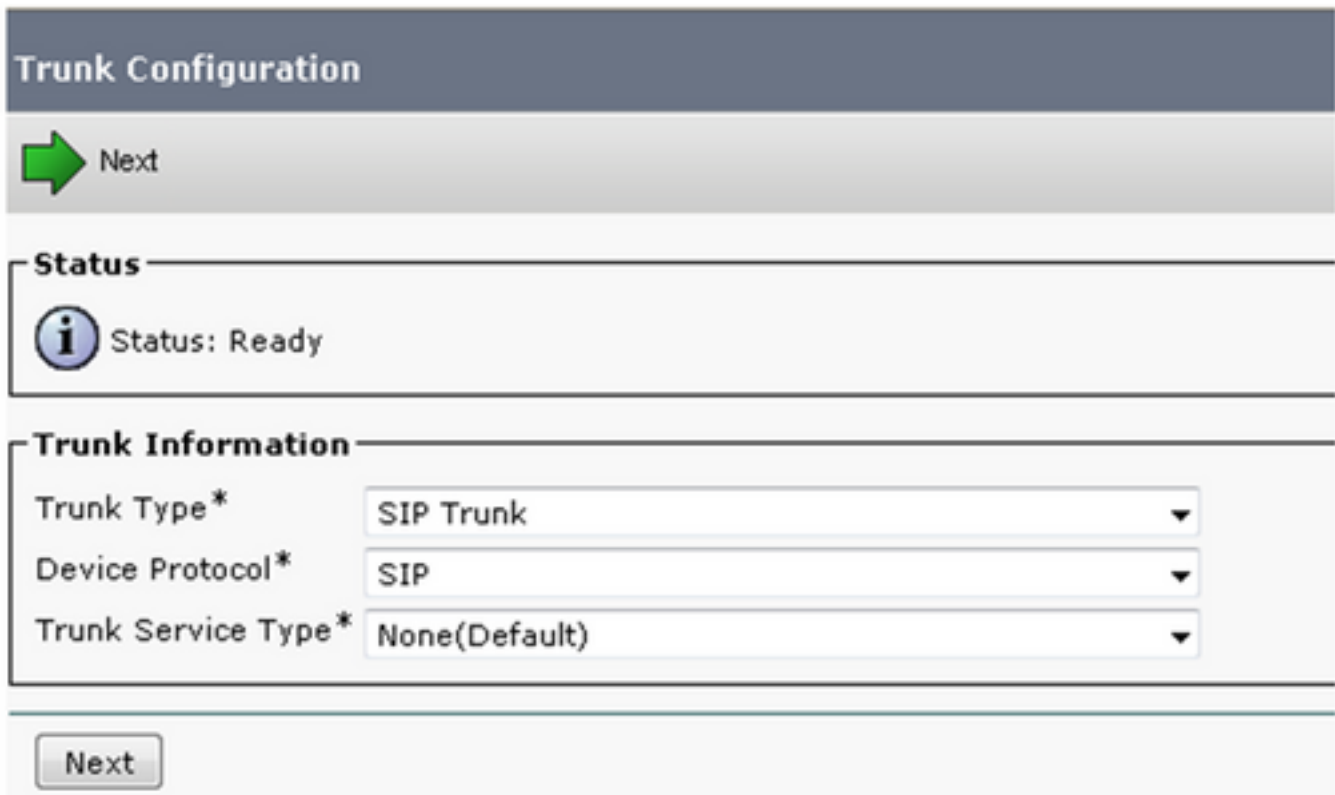


## SIPのみの統合のための自動コール録音の設定

この項では、録音サーバのSIP統合を設定する方法について説明します。

## 録音の宛先へのSIPトランクの作成

- [Device] > [Trunk] に移動し、[Add New] を選択します。
- 図に示すように、設定を使用してSIPトランクを作成します。







The screenshot displays the 'Trunk Configuration' interface. At the top, there is a 'Next' button with a green arrow. Below this, the 'Status' section shows 'Status: Ready' with an information icon. The 'Trunk Information' section contains three dropdown menus: 'Trunk Type\*' is set to 'SIP Trunk', 'Device Protocol\*' is set to 'SIP', and 'Trunk Service Type\*' is set to 'None(Default)'. At the bottom, there is another 'Next' button.

- 適切なデバイス名、デバイスプール、MRGL、SIPトランクセキュリティプロファイル、SIPプロファイルを入力します
- 設定された宛先アドレスは、録音アプリケーションサーバのアドレスです。

## 録音プロファイルの作成


- [Device] > [Device Settings] > [Recording Profile] に移動します。
- 録音宛先アドレスは、図に示すように録音コールが送信される場所です。

### Recording Profile Configuration

 Save
  Delete
  Copy
  Add New

---

**Status**

 Status: Ready

---

**Recording Profile Information**

Name\*

Recording Calling Search Space

Recording Destination Address \*

---

## 録音コールをルーティングするためのルートパターンの作成

- 前のステップで設定した録音宛先アドレスと一致するルートパターンを作成します
- 冗長SIPトランクを設定する場合は、SIPトランクで直接ではなく、ルートリストを指定できます

注：このルートパターンに割り当てられたパーティションは、図に示すように、RecordingCallingSearch Spaceに関連付けられている必要があります。

### Pattern Definition

Route Pattern\*   
 Route Partition   
 Description   
 Numbering Plan   
 Route Filter   
 MLPP Precedence\*   
 Apply Call Blocking Percentage  
 Resource Priority Namespace Network Domain   
 Route Class\*   
 Gateway/Route List\*  [\(Edit\)](#)  
 Route Option  Route this pattern

## 電話回線への録音プロファイルの割り当て

- 既存の内線番号を使用して作成済みの電話機で、作成した録音プロファイルを割り当てます
- この場所でもコール録音のタイプを割り当てます
- この例では、図に示すように、自動録音が示されています。

Recording Option*	Automatic Call Recording Enabled
Recording Profile	Test Recording Profile
Recording Media Source*	Phone Preferred
Monitoring Calling Search Space	< None >

## [電話の設定(Phone Configuration)]ページでBIBをオンに、プライバシーをオフに設定する

デバイス設定ページで、[Device Information] というタイトルのセクションに移動します。図に示すように、[Built In Bridge]をOnに、[Privacy]をOffに設定します。

Built In Bridge*	On
Privacy*	Off

## 確認

ここでは、設定が正常に機能しているかどうかを確認します。

次に、指定された設定を使用したSCCPおよびSIP電話機のCall Managerトレースで予想される動作を示します。これらの例は、電話機の1つがコール録音用に設定されている間に、同じクラスタ上の別の電話機にコールを発信する電話機を対象としています。

注:CUCMから収集するログは、CTIManger、CallManager、Event Viewer App/Sys、およびpcapsです。

注：電話機から収集するログは、コンソールログとpcapです。電話機からpcapを取得すると同時に、録音サーバからpcapを取得できます。

## SCCP

```

~~~~~
Normal CCM Traces for SCCP phone to SCCP phone with SIP Integrated Call Recording
~~~~~

### Calling phone places call

03796977.001 |20:21:08.055 |AppInfo |StationInit: (0000109) SoftKeyEvent softKeyEvent=1(Redial)
lineInstance=0 callReference=0.

### CUCM performs digit analysis against the dialed digits (dd="9110001")

03797017.001 |20:21:08.057 |AppInfo |Digit Analysis: star_DaReq: daReq.partitionSearchSpace(),
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()
03797017.002 |20:21:08.057 |AppInfo |Digit Analysis: star_DaReq: Matching Legacy Numeric,
digits=9110001
03797017.003 |20:21:08.057 |AppInfo |Digit Analysis: getDaRes data&colon; daRes.ssType=[0]
Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]

```



```
03797017.004 |20:21:08.057 |AppInfo |Digit Analysis: getDaRes - Remote Destination [] isURI[1]
03797017.005 |20:21:08.057 |AppInfo |Digit analysis: patternUsage=2
03797017.006 |20:21:08.057 |AppInfo |Digit analysis: match(pi="2", fqcn="9110006",
cn="9110006",plv="5", pss="", TodFilteredPss="", dd="9110001",dac="0")
03797017.007 |20:21:08.057 |AppInfo |Digit analysis: analysis results
03797017.008 |20:21:08.057 |AppInfo ||PretransformCallingPartyNumber=9110006
|CallingPartyNumber=9110006
|DialingPartition=
|DialingPattern=9110001
|FullyQualifiedCalledPartyNumber=9110001
|DialingPatternRegularExpression=(9110001)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=9110001
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=9110001
|CollectedDigits=9110001
```

```
### CUCM determines call must stay on same node; go to LineControl
(PID=LineControl(2,100,174,137))
```

```
03797019.001 |20:21:08.058 |AppInfo |Digit analysis: wait_DmPidRes- Partition=[]
Pattern=[9110001] Where=[],cmDeviceType=[UserDevice], OutsideDialtone =[0], DeviceOverride=[0],
PID=LineControl(2,100,174,137),CI=[38960749],Sender=Cdcc(2,100,219,29)
```

```
### CUCM extends call to phone
```

```
03797036.003 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG whatToDo: line=1 calls=0
limit=4, busy=2. GCI=(2, 5033), cm_PL=(5, 0).
03797036.004 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG whatToDo: busy trigger not
hit... send to open appearance
03797036.005 |20:21:08.058 |AppInfo |preFilterCapCount =[11], preFilterCaps :: (Cap)= (25) (6)
(4) (2) (7) (8) (15) (16) (11) (12) (257) Filtering Caps due to Service Parameter Configuration
postFilterCapCount =[8], postFilterCaps :: (Cap)= (25) (4) (2) (15) (16) (11) (12) (257)
03797036.006 |20:21:08.058 |AppInfo |preFilterCapCount =[0], preFilterCaps :: (Cap)= Filtering
Caps due to Service Parameter Configuration postFilterCapCount =[0], postFilterCaps :: (Cap)=
03797036.007 |20:21:08.058 |Created | |
|StationCdpc(2,100,64,22) |StationD(2,100,63,114) |
|NumOfCurrentInstances: 2
03797036.008 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG- getLineRingSetting:
retVal=4.
03797036.009 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG- saveRinger for: ci=38960750,
line=1, mode=2, cm_precedence=5, callPhase=5.
03797036.010 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG- saveRinger: ci=38960750,
line=1, mode=2, cm_precedence=5, callPhase=5, modifier=0
03797036.011 |20:21:08.058 |AppInfo |StationD: (0000114) INFO sendCallAcceptReq: Try to
send StationLineCallAccept to cdpc=22 .
03797036.012 |20:21:08.058 |AppInfo |StationD: (0000114) playRinger for: ci=38960750.
03797036.013 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG- getLineRingSetting:
retVal=4.
03797036.014 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG- getLineRingSetting:
retVal=4.
03797036.015 |20:21:08.058 |AppInfo |StationD: (0000114) DEBUG- getLineRingSetting:
retVal=4.
```

```
### Called (recorded) phone goes off hook
```

```
03797089.001 |20:21:09.335 |AppInfo |StationD: (0000114) restart0_StationOffHook - INFO:
CI=38960750 on line=1, SPKMode=0, alwaysPrimeLine=0, alwaysUsePrimeLineForVM=0, fid=0,
offHookTrigger=0.
```



### CUCM Tells the calling phone to open the logical channel

03797153.001 |20:21:09.337 |AppInfo |StationD: (0000109) SEP0018195AA209 ,  
star\_MediaExchangeAgenaOpenLogicalChannel packetSize=20, codec=4, ci=38960749

### CUCM Tells the called (recorded party) phone to open the logical channel

03797156.001 |20:21:09.337 |AppInfo |StationD: (0000114) SEP001795BDD16B ,  
star\_MediaExchangeAgenaOpenLogicalChannel packetSize=20, codec=4, ci=38960750

### CUCM Tells the calling phone to open the receive channel

03797164.002 |20:21:09.337 |AppInfo |StationD: (0000109) OpenReceiveChannel  
conferenceID=38960749 passThruPartyID=33554450 millisecondPacketSize=20  
compressionType=4(Media\_Payload\_G711UlAW64k) RFC2833PayloadType=0 qualifierIn=?  
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33). myIP:  
IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)

### CUCM Tells the called (recorded party) phone to open the receive channel

03797168.002 |20:21:09.337 |AppInfo |StationD: (0000114) OpenReceiveChannel  
conferenceID=38960750 passThruPartyID=33554451 millisecondPacketSize=20  
compressionType=4(Media\_Payload\_G711UlAW64k) RFC2833PayloadType=0 qualifierIn=?  
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28). myIP:  
IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

### CUCM allocates BIB on called (recorded) phone

03797210.000 |20:21:09.338 |SdlSig |MrmAllocateUcbResourceReq |waiting  
|MediaResourceManager(2,100,138,1) |Cc(2,100,220,1)  
|2,100,14,8384.91^10.48.32.33^SEP001795BDD16B |[R:N-H:0,N:1,L:0,V:0,Z:0,D:0] CI=38960751  
SsType=33554461 SsKey=9 BridgeType=0 MRGLPkid= NumStream=1 Bib=89cdb152-4ef2-4d60-9e6b-  
ab8c77c22618 BibTgCi=38960750 FeatId=159 PL=5 PLDmn=0 DeviceCapability=0 NumVideoCapable=0  
requestDeviceType=0 requestDeviceLocale=64 forkingDevicePosition=2 playToneDir=3

### BiB places first call to recording destination address (cn is calling party which is the BiB  
cn="b00223908001" and it is dialing the recordingdestination dd="8675309")

03797269.001 |20:21:09.340 |AppInfo |Digit Analysis: star\_DaReq: daReq.partitionSearchSpace(),  
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()  
03797269.002 |20:21:09.340 |AppInfo |Digit Analysis: star\_DaReq: Matching Legacy Numeric,  
digits=8675309  
03797269.003 |20:21:09.340 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept  
DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]  
03797269.004 |20:21:09.340 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309]  
isURI[0]  
03797269.005 |20:21:09.340 |AppInfo |CMUtility routeCallThroughCTIRD: no matching  
RemDestDynamic record exists for remdest [8675309]  
03797269.006 |20:21:09.340 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 8675309  
03797269.007 |20:21:09.340 |AppInfo |DbMobility: getMatchedRemDest: full match case  
03797269.008 |20:21:09.340 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic  
record exists for remdest [8675309]  
03797269.009 |20:21:09.340 |AppInfo |DbMobility: can't find remdest 8675309 in map  
03797269.010 |20:21:09.340 |AppInfo |Digit analysis: patternUsage=5  
03797269.011 |20:21:09.340 |AppInfo |Digit analysis: match(pi="1", fqcn="",  
cn="b00223908001", plv="5", pss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
TodFilteredPss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
dd="8675309", dac="0")  
03797269.012 |20:21:09.340 |AppInfo |Digit analysis: analysis results  
03797269.013 |20:21:09.340 |AppInfo ||PretransformCallingPartyNumber=b00223908001  
|CallingPartyNumber=b00223908001  
|DialingPartition=  
|DialingPattern=8675309

|FullyQualifiedCalledPartyNumber=8675309  
|DialingPatternRegularExpression=(8675309)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=8675309  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=8675309  
|CollectedDigits=8675309

### CUCM sends INVITE #1 to configured recording server (10.48.32.170)

03797320.001 |20:21:09.343 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[212231,NET]

INVITE sip:8675309@10.48.32.170:5060 SIP/2.0

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204d520fedb3

From: <sip:9110001@10.48.32.90;x-nearend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73601~713e2333-4032-45f1-blf5-e33cf471acec-38960754

To: <sip:8675309@10.48.32.170>

Date: Tue, 30 Sep 2014 00:21:09 GMT

Call-ID: abbb8e00-4291f775-204c-5a20300e@10.48.32.90

Supported: timer,resource-priority,replaces

Min-SE: 1800

User-Agent: Cisco-CUCM10.5

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

CSeq: 101 INVITE

Expires: 180

Allow-Events: presence, kpml

Supported: X-cisco-srtp-fallback

Supported: Geolocation

Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"

Cisco-Guid: 2881195520-0000065536-0000000011-1512058894

Session-Expires: 1800

P-Asserted-Identity: <sip:9110001@10.48.32.90>

Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off

Contact: <sip:9110001@10.48.32.90:5060>;isFocus

Max-Forwards: 70

Content-Length: 0

### BiB places second call to recording destination address (cn is calling party which is the BiB cn="b00223908001" and it is dialing the recordingdestination dd="8675309")

Note that the BiB number stayed the same (b00223908001) and so did the recordingdestination number

03797367.010 |20:21:09.344 |AppInfo |Digit analysis: patternUsage=5

03797367.011 |20:21:09.344 |AppInfo |Digit analysis: match(pi="1", fqcn="",

cn="b00223908001",plv="5", pss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",

TodFilteredPss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",

dd="8675309",dac="0")

03797367.012 |20:21:09.344 |AppInfo |Digit analysis: analysis results

03797367.013 |20:21:09.344 |AppInfo ||PretransformCallingPartyNumber=b00223908001

|CallingPartyNumber=b00223908001

|DialingPartition=

|DialingPattern=8675309

|FullyQualifiedCalledPartyNumber=8675309

|DialingPatternRegularExpression=(8675309)

|DialingWhere=

|PatternType=Enterprise

|PotentialMatches=NoPotentialMatchesExist

|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=8675309  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=8675309  
|CollectedDigits=8675309

### CUCM receives 200 OK in response to INVITE #1

03797390.001 |20:21:09.345 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 737 from 10.48.32.170:[5060]:  
[212232,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204d520fedb3  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73601~713e2333-4032-45f1-blf5-e33cf471lacec-38960754  
To: <sip:8675309@10.48.32.170>;tag=1  
Call-ID: abbb8e00-4291f775-204c-5a20300e@10.48.32.90  
CSeq: 101 INVITE  
Contact: <sip:10.48.32.170:5060;transport=udp>  
Content-Type: application/sdp  
Content-Length: 135

v=0  
o=user1 53655765 2353687637 IN IP4 10.48.32.170  
s=-  
c=IN IP4 10.48.32.170  
t=0 0  
m=audio 6000 RTP/AVP 0  
a=rtpmap:0 PCMU/8000

### CUCM sends INVITE #2 to recording server (10.48.32.170)

03797445.001 |20:21:09.348 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[212233,NET]  
INVITE sip:8675309@10.48.32.170:5060 SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204e754eaeae  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73602~713e2333-4032-45f1-blf5-e33cf471lacec-38960757  
To: <sip:8675309@10.48.32.170>  
Date: Tue, 30 Sep 2014 00:21:09 GMT  
Call-ID: abbb8e00-4291f775-204d-5a20300e@10.48.32.90  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM10.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"  
Cisco-Guid: 2881195520-0000065536-0000000012-1512058894  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
Remote-Party-ID: <sip:9110001@10.48.32.90>;party-calling;screen=yes;privacy=off  
Contact: <sip:9110001@10.48.32.90:5060>;isFocus  
Max-Forwards: 70  
Content-Length: 0

### CUCM receives 200 OK in response to INVITE #2

03797498.001 |20:21:09.350 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 736 from 10.48.32.170:[5060]:

[212235,NET]

SIP/2.0 200 OK

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204e754eaeae

From: <sip:9110001@10.48.32.90;x-farend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73602~713e2333-4032-45f1-blf5-e33cf471acec-38960757

To: <sip:8675309@10.48.32.170>;tag=2

Call-ID: abbb8e00-4291f775-204d-5a20300e@10.48.32.90

CSeq: 101 INVITE

Contact: <sip:10.48.32.170:5060;transport=udp>

Content-Type: application/sdp

Content-Length: 135

v=0

o=user1 53655765 2353687637 IN IP4 10.48.32.170

s=-

c=IN IP4 10.48.32.170

t=0 0

m=audio 6000 RTP/AVP 0

a=rtpmap:0 PCMU/8000

### CUCM sends outbound ACK in response to 200 OK #1

03797500.001 |20:21:09.351 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[212236,NET]

ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204f50bef815

From: <sip:9110001@10.48.32.90;x-nearend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73601~713e2333-4032-45f1-blf5-e33cf471acec-38960754

To: <sip:8675309@10.48.32.170>;tag=1

Date: Tue, 30 Sep 2014 00:21:09 GMT

Call-ID: abbb8e00-4291f775-204c-5a20300e@10.48.32.90

User-Agent: Cisco-CUCM10.5

Max-Forwards: 70

CSeq: 101 ACK

Allow-Events: presence, kpml

Content-Type: application/sdp

Content-Length: 254

v=0

o=CiscoSystemsCCM-SIP 73601 1 IN IP4 10.48.32.90

s=SIP Call

c=IN IP4 10.48.32.33

b=TIAS:64000

b=CT:64

b=AS:64

t=0 0

m=audio 4000 RTP/AVP 0 101

a=ptime:20

a=rtpmap:0 PCMU/8000

a=sendonly

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

### CUCM sends startMediaTransmission to the called (recorded) phone telling the phone to send RTP to recording server (10.48.32.170)

03797479.001 |20:21:09.350 |AppInfo |StationD: (0000114) startMediaTransmission  
conferenceID=38960750 passThruPartyID=33554452 remoteIpAddress=IpAddr.type:0  
ipAddr:0x0e3020aa000000000000000000000000(10.48.32.170) remotePortNumber=6000  
milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0  
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

### CUCM sends startMediaTransmission #2 to the called (recorded) phone telling the phone to send RTP to recording server (10.48.32.170)

03797596.001 |20:21:09.354 |AppInfo |StationD: (0000114) startMediaTransmission  
conferenceID=38960750 passThruPartyID=33554453 remoteIpAddress=IpAddr.type:0  
ipAddr:0x0e3020aa000000000000000000000000(10.48.32.170) remotePortNumber=6000  
milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0  
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

### CUCM sends outbound ACK in response to 200 OK #2

03797615.001 |20:21:09.354 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[212237,NET]  
ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK2050183495f1  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73602~713e2333-4032-45f1-blf5-e33cf47lacec-38960757  
To: <sip:8675309@10.48.32.170>;tag=2  
Date: Tue, 30 Sep 2014 00:21:09 GMT  
Call-ID: abbb8e00-4291f775-204d-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Content-Type: application/sdp  
Content-Length: 254

v=0  
o=CiscoSystemsCCM-SIP 73602 1 IN IP4 10.48.32.90  
s=SIP Call  
c=IN IP4 10.48.32.33  
b=TIAS:64000  
b=CT:64  
b=AS:64  
t=0 0  
m=audio 4000 RTP/AVP 0 101  
a=ptime:20  
a=rtpmap:0 PCMU/8000  
a=sendonly  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

### Calling phone sends CUCM the ORC ACK

03797634.001 |20:21:09.385 |AppInfo |StationInit: (0000109) OpenReceiveChannelAck Status=0,  
IpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28), Port=17996,  
PartyID=33554450

### CUCM sends startMediaTransmission to the called (recorded) phone telling the phone to send RTP to the calling phone (10.48.32.28)

03797642.001 |20:21:09.385 |AppInfo |StationD: (0000114) startMediaTransmission  
conferenceID=38960750 passThruPartyID=33554451 remoteIpAddress=IpAddr.type:0  
ipAddr:0x0e30201c000000000000000000000000(10.48.32.28) remotePortNumber=17996  
milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0  
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

### Called (recorded) phone sends CUCM the ORC ACK

03797643.001 |20:21:09.454 |AppInfo |StationInit: (0000114) OpenReceiveChannelAck Status=0,  
IpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33), Port=32588,  
PartyID=33554451

### CUCM sends startMediaTransmission to the calling phone telling the phone to send RTP to the  
called phone (10.48.32.33)

03797655.001 |20:21:09.454 |AppInfo |StationD: (0000109) startMediaTransmission  
conferenceID=  
38960749 passThruPartyID=33554450 remoteIpAddress=IpAddr.type:0  
ipAddr:0x0e302021000000000000000000000000(10.48.32.33) remotePortNumber=32588  
milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0  
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)

## SIP

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Normal CCM Traces for SIP phone to SIP phone with SIP Integrated Call Recording  
~~~~~

##### Calling phone places call

04241111.002 |11:27:41.232 |AppInfo |SIPtcp - wait\_SdlReadRsp: Incoming SIP TCP message from  
10.48.38.102 on port 50147 index 32 with 1946 bytes:  
[286938,NET]  
INVITE sip:1001@10.48.38.5;user=phone SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.102:50147;branch=z9hG4bK598c2eb2  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=38ed18552a12296c00ff41e8-5fb7856e  
To: <sip:1001@10.48.38.5>  
Call-ID: 38ed1855-2a120006-78c34baf-1b81d864@10.48.38.102  
Max-Forwards: 70  
Session-ID: 1001532000105000a00038ed18552a12;remote=00000000000000000000000000000000  
Date: Tue, 27 Aug 2019 15:27:42 GMT  
CSeq: 101 INVITE  
User-Agent: Cisco-CP7861/12.1.1  
Contact: <sip:ab17ea6e-8072-927d-aad0-  
d10273906106@10.48.38.102:50147;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP38ED18552A12"  
Expires: 180  
Accept: application/sdp  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 1" <sip:1000@10.48.38.5>;party=calling;id-  
type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-  
callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-  
cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 687  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

v=0

o=Cisco-SIPUA 15384 0 IN IP4 10.48.38.102  
s=SIP Call  
b=AS:4064  
t=0 0  
m=audio 17904 RTP/AVP 114 9 113 115 0 8 116 18 101  
c=IN IP4 10.48.38.102  
b=TIAS:64000  
a=rtpmap:114 opus/48000/2  
a=fmtp:114 maxplaybackrate=16000;sprop-maxcapture=16000;maxaveragebitrate=64000;stereo=0;sprop-stereo=0;usedtx=0  
a=rtpmap:9 G722/8000  
a=rtpmap:113 AMR-WB/16000  
a=fmtp:113 octet-align=0;mode-change-capability=2  
a=rtpmap:115 AMR-WB/16000  
a=fmtp:115 octet-align=1;mode-change-capability=2  
a=rtpmap:0 PCMU/8000  
a=rtpmap:8 PCMA/8000  
a=rtpmap:116 iLBC/8000  
a=fmtp:116 mode=20  
a=rtpmap:18 G729/8000  
a=fmtp:18 annexb=yes  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrecv

##### CUCM performs digit analysis against the dialed digits (dd="1000")

04241138.007 |11:27:41.238 |AppInfo |Digit analysis: match(pi="2", fqcn="+14085251000", cn="1000", plv="5", pss="EMERGENCY\_PT:INTERNAL\_PT:SJ\_LOCAL\_PT:LD\_PT:GLOBALIZED\_PT", TodFilteredPss="EMERGENCY\_PT:INTERNAL\_PT:SJ\_LOCAL\_PT:LD\_PT:GLOBALIZED\_PT", dd="1001", dac="0")  
04241138.008 |11:27:41.238 |AppInfo |Digit analysis: analysis results  
04241138.009 |11:27:41.238 |AppInfo ||PretransformCallingPartyNumber=1000  
|CallingPartyNumber=1000  
|DialingPartition=INTERNAL\_PT  
|DialingPattern=1001  
|FullyQualifiedCalledPartyNumber=+14085251001  
|DialingPatternRegularExpression=(1001)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=1001  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=1001  
|CollectedDigits=1001

##### CUCM determines call must stay on same node and go to LineControl (PID=LineControl(1,100,178,34))

04241140.001 |11:27:41.238 |AppInfo |Digit analysis: wait\_DmPidRes- Partition=[a067f454-fb26-2d1f-59da-a3f946a442c4] Pattern=[1001] Where=[],cmDeviceType=[UserDevice], OutsideDialtone =[0], DeviceOverride=[0], PID=LineControl(1,100,178,34),CI=[19301624],Sender=Cdcc(1,100,224,37)

##### CUCM sends outbound INVITE to called (recorded) phone

04241178.001 |11:27:41.242 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52  
[286940,NET]  
INVITE sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32e829c48246  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=104952~e650e088-60ba-4195-8387-3dcc0127efdc-19301625  
To: <sip:1001@10.48.38.5>



Date: Tue, 27 Aug 2019 15:27:41 GMT  
Call-ID: 34241a00-d6514bed-327f-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence  
Call-Info: <urn:x-cisco-remotecallinfo>; security= Unknown; orientation= from; gci= 1-2029;  
isVoip; call-instance= 1  
Send-Info: conference, x-cisco-conference  
Alert-Info: <file://Bellcore-dr1/>  
Session-ID: 1001532000105000a00038ed18552a12;remote=00000000000000000000000000000000  
Remote-Party-ID: "SJ User 1" <sip:1000@10.48.38.5;x-cisco-callback-  
number=1000>;party=calling;screen=yes;privacy=off  
Contact:  
<sip:1000@10.48.38.5:5060;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP38ED18552A12"  
Max-Forwards: 69  
Content-Length: 0

##### Called (recorded) phone returns 200 OK

04241233.002 |11:27:43.614 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from  
10.48.38.107 on port 51902 index 52 with 1902 bytes:  
[286947,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32e829c48246  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=104952~e650e088-60ba-4195-8387-3dcc0127efdc-19301625  
To: <sip:1001@10.48.38.5>;tag=6c416a369525006f33cf6f38-43c38ad2  
Call-ID: 34241a00-d6514bed-327f-526300e@10.48.38.5  
Session-ID: 4313758700105000a0006c416a369525;remote=1001532000105000a00038ed18552a12  
Date: Tue, 27 Aug 2019 15:27:42 GMT  
CSeq: 101 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-  
588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-  
type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-  
callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-  
cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 685  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

v=0  
o=Cisco-SIPUA 899 0 IN IP4 10.48.38.107  
s=SIP Call  
b=AS:4064  
t=0 0  
m=audio 20394 RTP/AVP 114 9 113 115 0 8 116 18 101  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:114 opus/48000/2  
a=fmtp:114 maxplaybackrate=16000;sprop-  
maxcapture=16000;maxaveragebitrate=64000;stereo=0;sprop-stereo=0;usedtx=0  
a=rtpmap:9 G722/8000  
a=rtpmap:113 AMR-WB/16000

a=fmtp:113 octet-align=0;mode-change-capability=2  
a=rtpmap:115 AMR-WB/16000  
a=fmtp:115 octet-align=1;mode-change-capability=2  
a=rtpmap:0 PCMU/8000  
a=rtpmap:8 PCMA/8000  
a=rtpmap:116 iLBC/8000  
a=fmtp:116 mode=20  
a=rtpmap:18 G729/8000  
a=fmtp:18 annexb=yes  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrec

### CUCM sends ACK to called (recorded) phone telling the called phone to send media to the calling phone (10.48.32.28)

01314344.001 |11:18:48.652 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.32.17 on port 50841 index 17  
[106320,NET]  
ACK sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@10.48.32.17:50841;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.32.90:5060;branch=z9hG4bK203c2831c118  
From: <sip:9110006@10.48.32.90>;tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-47601638  
To: <sip:9110011@10.48.32.90>;tag=b000b4d9e8cb0bba73e445ee-3cc7e650  
Date: Tue, 14 Oct 2014 15:18:44 GMT  
Call-ID: 6198e780-43d13ed4-203c-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence  
Content-Type: application/sdp  
Content-Length: 243

v=0  
o=CiscoSystemsCCM-SIP 38244 1 IN IP4 10.48.32.90  
s=SIP Call  
c=IN IP4 10.48.32.28  
b=TIAS:64000  
b=CT:64  
b=AS:64  
t=0 0  
m=audio 17260 RTP/AVP 0 101  
aptime:20  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15### CUCM allocates BiB on called (recorded) phone

01314383.000 |11:18:48.675 |SdlSig |MrmAllocateUcbResourceReq |waiting  
|MediaResourceManager(2,100,138,1) |Cc(2,100,220,1)  
|2,100,14,20.16735^10.48.32.28^SEP0018195AA209 |[R:N-H:0,N:3,L:1,V:0,Z:0,D:0] CI=47601639  
SsType=33554461 SsKey=1 BridgeType=0 MRGLPkid= NumStream=1 Bib=c32d6714-48bd-43d7-b96f-91363aff3aa0 BibTgCi=47601638 FeatId=159 PL=5 PLDmn=0 DeviceCapability=0 NumVideoCapable=0 requestDeviceType=0 requestDeviceLocale=64 forkingDevicePosition=2 playToneDir=3

##### CUCM forwards the 200 OK to the calling phone

04241368.001 |11:27:43.624 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.102 on port 50147 index 32  
[286949,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.102:50147;branch=z9hG4bK598c2eb2  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=38ed18552a12296c00ff41e8-5fb7856e  
To: <sip:1001@10.48.38.5>;tag=104951~e650e088-60ba-4195-8387-3dcc0127efdc-19301624  
Date: Tue, 27 Aug 2019 15:27:41 GMT

Call-ID: 38ed1855-2a120006-78c34baf-1b81d864@10.48.38.102  
CSeq: 101 INVITE  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
Allow-Events: presence  
Supported: replaces  
Server: Cisco-CUCM11.5  
Call-Info: <urn:x-cisco-remotecallinfo>; security= NotAuthenticated; orientation= to; gci= 1-2029; isVoip; call-instance= 1  
Send-Info: conference, x-cisco-conference  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;screen=yes;privacy=off  
Session-ID: 4313758700105000a0006c416a369525;remote=1001532000105000a00038ed18552a12  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5;user=phone>;party=x-cisco-original-called;privacy=off  
Contact:  
<sip:1001@10.48.38.5:5060;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Content-Type: application/sdp  
Content-Length: 223

v=0  
o=CiscoSystemsCCM-SIP 104951 1 IN IP4 10.48.38.5  
s=SIP Call  
c=IN IP4 10.48.38.107  
b=AS:64  
t=0 0  
m=audio 20394 RTP/AVP 0 101  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

##### BiB allocation request on called (recorded) phone

04241393.000 |11:27:43.629 |SdlSig |SIPAllocateBibResourceReq |restart0  
|SIPBuiltInBridgeControl(1,100,86,15) |SIPStationCdfc(1,100,77,21)  
|1,100,14,83.39^10.48.38.107^\* |[R:N-H:0,N:1,L:0,V:0,Z:0,D:0] CI=19301626  
NumStream=1 BridgeType=0 SsType=16777246 SsKey=5 JccbId=104952 PeerAddr = 10.48.38.107:51902

##### BiB allocated on called (recorded) phone

04241400.000 |11:27:43.630 |SdlSig |MrmAllocateSharedResourceRes |wait  
|Cc(1,100,225,1) |MediaResourceManager(1,100,142,1)  
|1,100,14,83.39^10.48.38.107^\* |[R:N-H:0,N:4,L:0,V:0,Z:0,D:0] CI=19301626  
SsType=16777246 SsKey=5 DN=b0018615001 Name=1b802aa4-863d-879c-f003-9b6de9a1fae5 Pid=1,100,76,27  
BibFlag=T DeviceCapability=256 mPrimaryPartition=

##### DA for first call to activate BiB

04241418.006 |11:27:43.631 |AppInfo |Digit analysis: match(pi="1", fqcn="", cn="", plv="5",  
pss="", TodFilteredPss="", dd="b0018615001",dac="0")  
04241418.007 |11:27:43.631 |AppInfo |Digit analysis: analysis results  
04241418.008 |11:27:43.631 |AppInfo ||PretransformCallingPartyNumber=  
|CallingPartyNumber=  
|DialingPartition=  
|DialingPattern=b0018615001  
|FullyQualifiedCalledPartyNumber=b0018615001  
|DialingPatternRegularExpression=(b0018615001)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(1,86,15)  
|PretransformDigitString=b0018615001

|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=b0018615001  
|CollectedDigits=b0018615001

##### CUCM sends INVITE #1 to called (recorded) phone with record-invoker=auto in Call-Info field and original Call-ID in Join field

Notice the SDP has a=inactive - even though there is no media established on the Bib yet.

04241449.001 |11:27:43.633 |AppInfo |SIPtcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52  
[286950,NET]  
INVITE sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ea2a115cd6  
From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628  
To: <sip:1001@10.48.38.5>  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence  
Call-Info: <urn:x-cisco-remotecallinfo>; isVoip; record-invoker=auto  
Join: 34241a00-d6514bed-327f-526300e@10.48.38.5;from-tag=6c416a369525006f33cf6f38-43c38ad2;to-tag=104952~e650e088-60ba-4195-8387-3dcc0127efdc-19301625  
Session-ID: 00000000000000000000000000000000;remote=00000000000000000000000000000000  
Remote-Party-ID: "Call Manager" <sip:10.48.38.5>;party=calling;screen=yes;privacy=off  
Contact: <sip:10.48.38.5:5060;transport=tcp>  
Max-Forwards: 70  
Content-Type: application/sdp  
Content-Length: 187

v=0  
o=CiscoSystemsCCM-SIP 104956 1 IN IP4 10.48.38.5  
s=SIP Call  
c=IN IP4 10.48.38.5  
t=0 0  
m=audio 4000 RTP/AVP 0  
a=label:X-relay-nearend  
a=rtpmap:0 PCMU/8000  
a=inactive  
a=mid:1

##### Calling phone sends CUCM an ACK in response to the 200 OK which was from when the user at the called phone answered the phone

04241455.002 |11:27:43.697 |AppInfo |SIPtcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.102 on port 50147 index 32 with 706 bytes:  
[286951,NET]  
ACK sip:1001@10.48.38.5:5060;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.102:50147;branch=z9hG4bK688db3c1  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=38ed18552a12296c00ff41e8-5fb7856e  
To: <sip:1001@10.48.38.5>;tag=104951~e650e088-60ba-4195-8387-3dcc0127efdc-19301624  
Call-ID: 38ed1855-2a120006-78c34baf-1b81d864@10.48.38.102  
Max-Forwards: 70  
Session-ID: 1001532000105000a00038ed18552a12;remote=4313758700105000a0006c416a369525  
Date: Tue, 27 Aug 2019 15:27:45 GMT  
CSeq: 101 ACK  
User-Agent: Cisco-CP7861/12.1.1  
Remote-Party-ID: "SJ User 1" <sip:1000@10.48.38.5>;party=calling;id-

type=subscriber;privacy=off;screen=yes  
Content-Length: 0  
Recv-Info: conference  
Recv-Info: x-cisco-conference

##### Called (recorded) phone returns 200 OK in response to the invite with "record-invoker=auto"

Notice the SDP has a=inactive - even though there is no media established on the Bib yet.

04241466.002 |11:27:43.901 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.107 on port 51902 index 52 with 1433 bytes:  
[286953,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ea2a115cd6  
From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85  
Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5  
Session-ID: 0848153900105000a0006c416a369525;remote=00000000000000000000000000000000  
Date: Tue, 27 Aug 2019 15:27:42 GMT  
CSeq: 101 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 218  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

v=0  
o=Cisco-SIPUA 2684 0 IN IP4 10.48.38.107  
s=SIP Call  
t=0 0  
m=audio 26396 RTP/AVP 0 101  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=inactive

##### CUCM responds to called (recorded) phone with ACK

04241469.001 |11:27:43.901 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52 [286954,NET] ACK sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0 Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32eb34decb69 From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628 To: <sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85 Date: Tue, 27 Aug 2019 15:27:43 GMT Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5 User-Agent: Cisco-CUCM11.5 Max-Forwards: 70 CSeq: 101 ACK Allow-Events: presence Content-Length: 0

##### BiB places first call to recording destination address (cn is calling party which is the BiB cn="b0018615001" and it is dialing the recordingdestination dd="7878")

04241501.011 |11:27:43.905 |AppInfo |Digit analysis: match(pi="1", fqcn="", cn="b0018615001", plv="5", pss="EMERGENCY\_PT:INTERNAL\_PT",

TodFilteredPss="EMERGENCY\_PT:INTERNAL\_PT", dd="7878",dac="0")  
04241501.012 |11:27:43.905 |AppInfo |Digit analysis: analysis results  
04241501.013 |11:27:43.905 |AppInfo ||PretransformCallingPartyNumber=b0018615001  
|CallingPartyNumber=b0018615001  
|DialingPartition=INTERNAL\_PT  
|DialingPattern=7878  
|FullyQualifiedCalledPartyNumber=7878  
|DialingPatternRegularExpression=(7878)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=7878  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=7878  
|CollectedDigits=7878

##### DA for to activate BiB for the other person's side of the call

04241545.006 |11:27:43.907 |AppInfo |Digit analysis: match(pi="1", fqc=" ", cn=" ",plv="5",  
pss=" ", TodFilteredPss=" ", dd="b0018615001",dac="0")  
04241545.007 |11:27:43.907 |AppInfo |Digit analysis: analysis results  
04241545.008 |11:27:43.907 |AppInfo ||PretransformCallingPartyNumber=  
|CallingPartyNumber=  
|DialingPartition=  
|DialingPattern=b0018615001  
|FullyQualifiedCalledPartyNumber=b0018615001  
|DialingPatternRegularExpression=(b0018615001)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(1,86,15)  
|PretransformDigitString=b0018615001  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=b0018615001  
|CollectedDigits=b0018615001

##### CUCM sends INVITE #1 to configured recording server (10.48.38.30)

04241555.001 |11:27:43.908 |AppInfo |SIPtcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
10.48.38.30 on port 5060 index 50  
[286955,NET]  
INVITE sip:7878@10.48.38.30:5060 SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ecc2c802c  
From: "SJ User 2" <sip:1001@10.48.38.5;x-nearend;x-refci=19301625;x-  
nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-  
farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-  
farendaddr=1000>;tag=104958-e650e088-60ba-4195-8387-3dcc0127efdc-19301629  
To: <sip:7878@10.48.38.30>  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3281-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: <sip:10.48.38.5:5060>;method="NOTIFY;Event=telephone-event;Duration=500"  
Call-Info: <urn:x-cisco-remotecallinfo>;x-cisco-video-traffic-class=DESKTOP  
Session-ID: 0848153900105000a0006c416a369525;remote=00000000000000000000000000000000





Date: Tue, 27 Aug 2019 15:27:42 GMT  
CSeq: 101 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 219  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

v=0  
o=Cisco-SIPUA 13977 0 IN IP4 10.48.38.107  
s=SIP Call  
t=0 0  
m=audio 17904 RTP/AVP 0 101  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=inactive

##### CUCM responds with ACK for 200 OK for INVITE #2 to invoke the BiB

04241618.001 |11:27:44.199 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52 [286960,NET]  
ACK sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ee41b380b1  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007145d433c8-062b13d7  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence  
Content-Length: 0

##### BiB places second call to recording destination address (cn is calling party which is the BiB cn="b0018615001" and it is dialing the recordingdestination dd="7878")

04241651.011 |11:27:44.201 |AppInfo |Digit analysis: match(pi="1", fqcn="", cn="b0018615001", plv="5", pss="EMERGENCY\_PT:INTERNAL\_PT", TodFilteredPss="EMERGENCY\_PT:INTERNAL\_PT", dd="7878", dac="0")  
04241651.012 |11:27:44.202 |AppInfo |Digit analysis: analysis results  
04241651.013 |11:27:44.202 |AppInfo ||PretransformCallingPartyNumber=b0018615001  
|CallingPartyNumber=b0018615001  
|DialingPartition=INTERNAL\_PT  
|DialingPattern=7878  
|FullyQualifiedCalledPartyNumber=7878  
|DialingPatternRegularExpression=(7878)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist

|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=7878  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=7878  
|CollectedDigits=7878

##### CUCM sends INVITE #2 to configured recording server

04241698.001 |11:27:44.205 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.30 on port 5060 index 50  
[286961,NET]  
INVITE sip:7878@10.48.38.30:5060 SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ef2867938b  
From: "SJ User 2" <sip:1001@10.48.38.5;x-farend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104961~e650e088-60ba-4195-8387-3dcc0127efdc-19301632  
To: <sip:7878@10.48.38.30>  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35eddd80-d6514bf0-3283-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: <sip:10.48.38.5:5060>;method="NOTIFY;Event=telephone-event;Duration=500"  
Call-Info: <urn:x-cisco-remotecc:callinfo>;x-cisco-video-traffic-class=DESKTOP  
Session-ID: 56a8a95e00105000a0006c416a369525;remote=00000000000000000000000000000000  
Cisco-Guid: 0904781184-0000065536-0000000023-0086388750  
Session-Expires: 1800  
P-Asserted-Identity: "SJ User 2" <sip:1001@10.48.38.5>  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=calling;screen=yes;privacy=off  
Contact:  
<sip:1001@10.48.38.5:5060;transport=tcp>;isFocus;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Max-Forwards: 70  
Content-Length: 0

##### CUCM receives a 200 OK from recording server for INVITE #2

04241723.002 |11:27:44.324 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.30 on port 5060 index 50 with 1205 bytes:  
[286963,NET]  
SIP/2.0 200 Ok  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ef2867938b  
To: <sip:7878@10.48.38.30>;tag=ds1ald776c  
From: "SJ User 2" <sip:1001@10.48.38.5;x-farend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104961~e650e088-60ba-4195-8387-3dcc0127efdc-19301632  
Call-ID: 35eddd80-d6514bf0-3283-526300e@10.48.38.5  
CSeq: 101 INVITE  
Content-Length: 475  
Contact: <sip:7878@10.48.38.30:5060;transport=TCP>  
Content-Type: application/sdp  
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE  
Supported: X-cisco-srtp-fallback  
Server: MediaSense/11.x

v=0  
o=CiscoORA 707 1 IN IP4 10.48.38.30  
s=SIP Call  
c=IN IP4 10.48.38.30  
t=0 0  
m=audio 56512 RTP/SAVP 102 0 8 9 18  
a=rtpmap:102 MP4A-LATM/90000  
a=fmtp:102 profile-level-id=24;object=23;bitrate=64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:8 PCMA/8000  
a=rtpmap:9 G722/8000  
a=rtpmap:18 G729/8000  
a=recvonly  
a=crypto:XX  
a=crypto:XX

##### CUCM receives 200 OK from the recording server in response to INVITE #1

04241743.002 |11:27:44.326 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.30 on port 5060 index 50 with 1205 bytes:  
[286964,NET]  
SIP/2.0 200 Ok  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ecc2c802c  
To: <sip:7878@10.48.38.30>;tag=ds2c967644  
From: "SJ User 2" <sip:1001@10.48.38.5;x-nearend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104958~e650e088-60ba-4195-8387-3dcc0127efdc-19301629  
Call-ID: 35554700-d6514bef-3281-526300e@10.48.38.5  
CSeq: 101 INVITE  
Content-Length: 475  
Contact: <sip:7878@10.48.38.30:5060;transport=TCP>  
Content-Type: application/sdp  
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE  
Supported: X-cisco-srtp-fallback  
Server: MediaSense/11.x

v=0  
o=CiscoORA 708 1 IN IP4 10.48.38.30  
s=SIP Call  
c=IN IP4 10.48.38.30  
t=0 0  
m=audio 59058 RTP/SAVP 102 0 8 9 18  
a=rtpmap:102 MP4A-LATM/90000  
a=fmtp:102 profile-level-id=24;object=23;bitrate=64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:8 PCMA/8000  
a=rtpmap:9 G722/8000  
a=rtpmap:18 G729/8000  
a=recvonly  
a=crypto:XX  
a=crypto:XX

##### CUCM sends re-INVITE #2 to called (recorded) phone (notice there is no SDP - this is so CUCM can identify the codec the BiB is locked to)  
Notice there is no SDP

04241825.001 |11:27:44.330 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52  
[286965,NET]  
INVITE sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f014677161  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631

To: <sip:1001@10.48.38.5>;tag=6c416a369525007145d433c8-062b13d7  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFY  
CSeq: 102 INVITE  
Max-Forwards: 70  
Expires: 180  
Allow-Events: presence  
Call-Info: <urn:x-cisco-remotecc:callinfo>; isVoip; record-invoker=auto  
Min-SE: 1800  
Session-ID: 00000000000000000000000000000000;remote=56a8a95e00105000a0006c416a369525  
Remote-Party-ID: "Call Manager" <sip:10.48.38.5>;party=calling;screen=yes;privacy=off  
Contact: <sip:10.48.38.5:5060;transport=tcp>  
Content-Length: 0

##### CUCM sends re-INVITE #1 to called (recorded) phone (notice there is no SDP - this is so CUCM can identify the codec the BiB is locked to)

04241866.001 |11:27:44.332 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52  
[286966,NET]  
INVITE sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f11da4ce39  
From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFY  
CSeq: 102 INVITE  
Max-Forwards: 70  
Expires: 180  
Allow-Events: presence  
Call-Info: <urn:x-cisco-remotecc:callinfo>; isVoip; record-invoker=auto  
Min-SE: 1800  
Session-ID: 00000000000000000000000000000000;remote=0848153900105000a0006c416a369525  
Remote-Party-ID: "Call Manager" <sip:10.48.38.5>;party=calling;screen=yes;privacy=off  
Contact: <sip:10.48.38.5:5060;transport=tcp>  
Content-Length: 0

##### Called (recorded) phone returns 200 OK for re-INVITE #2

04241872.002 |11:27:44.541 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.107 on port 51902 index 52 with 1434 bytes:  
[286969,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f014677161  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007145d433c8-062b13d7  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
Session-ID: 56a8a95e00105000a0006c416a369525;remote=00000000000000000000000000000000  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
CSeq: 102 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-

callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 219  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

v=0  
o=Cisco-SIPUA 13977 1 IN IP4 10.48.38.107  
s=SIP Call  
t=0 0  
m=audio 17904 RTP/AVP 0 101  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrecv

##### Called (recorded) phone returns 200 OK to re-INVITE #1

04241885.002 |11:27:44.550 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.107 on port 51902 index 52 with 1433 bytes:  
[286970,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f11da4ce39  
From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85  
Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5  
Session-ID: 0848153900105000a0006c416a369525;remote=00000000000000000000000000000000  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
CSeq: 102 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 218  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

v=0  
o=Cisco-SIPUA 2684 1 IN IP4 10.48.38.107  
s=SIP Call  
t=0 0  
m=audio 26396 RTP/AVP 0 101  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrecv

##### CUCM sends ACK to called (recorded) phone for re-INVITE #2

04241903.001 |11:27:44.552 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52 [286971,NET]

ACK sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f252b587f6  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007145d433c8-062b13d7  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 102 ACK  
Allow-Events: presence  
Session-ID: 00000000000000000000000000000000;remote=56a8a95e00105000a0006c416a369525  
Content-Type: application/sdp  
Content-Length: 192

v=0  
o=CiscoSystemsCCM-SIP 104959 3 IN IP4 10.48.38.5  
s=SIP Call  
c=IN IP4 10.48.38.30  
b=TIAS:64000  
b=AS:64  
t=0 0  
m=audio 56512 RTP/AVP 0  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=recvonly

##### CUCM sends ACK to the recording server in response to 200 OK #2

04241917.001 |11:27:44.555 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.30 on port 5060 index 50 [286972,NET]

ACK sip:7878@10.48.38.30:5060;transport=TCP SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f373e69393  
From: "SJ User 2" <sip:1001@10.48.38.5;x-farend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104961~e650e088-60ba-4195-8387-3dcc0127efdc-19301632  
To: <sip:7878@10.48.38.30>;tag=dslald776c  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35eddd80-d6514bf0-3283-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Session-ID: 56a8a95e00105000a0006c416a369525;remote=c83405810147c69016c38634ab104961  
Content-Type: application/sdp  
Content-Length: 235

v=0  
o=CiscoSystemsCCM-SIP 104961 1 IN IP4 10.48.38.5  
s=SIP Call  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
b=AS:64  
t=0 0  
m=audio 17904 RTP/AVP 0 101  
a=rtpmap:0 PCMU/8000  
a=sendonly  
a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

##### CUCM sends ACK to called (recorded) phone for re-INVITE #1

04241947.001 |11:27:44.559 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52 [286973,NET]

ACK sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f45d25b711  
From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 102 ACK  
Allow-Events: presence  
Session-ID: 00000000000000000000000000000000;remote=0848153900105000a0006c416a369525  
Content-Type: application/sdp  
Content-Length: 192

v=0  
o=CiscoSystemsCCM-SIP 104956 3 IN IP4 10.48.38.5  
s=SIP Call  
c=IN IP4 10.48.38.30  
b=TIAS:64000  
b=AS:64  
t=0 0  
m=audio 59058 RTP/AVP 0  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=recvonly

##### CUCM sends ACK to the recording server in response to 200 OK #1

04241948.001 |11:27:44.559 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.30 on port 5060 index 50 [286974,NET]

ACK sip:7878@10.48.38.30:5060;transport=TCP SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f573871bbb  
From: "SJ User 2" <sip:1001@10.48.38.5;x-nearend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104958~e650e088-60ba-4195-8387-3dcc0127efdc-19301629  
To: <sip:7878@10.48.38.30>;tag=ds2c967644  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3281-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Session-ID: 0848153900105000a0006c416a369525;remote=c83405810147c69016c38634ab104958  
Content-Type: application/sdp  
Content-Length: 235

v=0  
o=CiscoSystemsCCM-SIP 104958 1 IN IP4 10.48.38.5  
s=SIP Call  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
b=AS:64  
t=0 0  
m=audio 26396 RTP/AVP 0 101



```
a=rtpmap:0 PCMU/8000
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

## トラブルシューティング

ここでは、設定のトラブルシューティングに使用できる情報を示します。

### コーデック ネゴシエーション

次に、最も一般的なタイプのコール録音の障害（録音された電話機と録音サーバ間のコーデックの不一致）の例を示します。

```
~~~~~
Codec Negotiation Failure
~~~~~

### Calling phone places call

00019629.001 |12:48:34.510 |AppInfo |StationInit: (0000005) EnblocCall calledParty=9110001.

### CUCM performs digit analysis against the dialed digits (dd="9110001")

00019638.001 |12:48:34.511 |AppInfo |Digit Analysis: star_DaReq: daReq.partitionSearchSpace(),
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()
00019638.002 |12:48:34.511 |AppInfo |Digit Analysis: star_DaReq: Matching Legacy Numeric,
digits=9110001
00019638.003 |12:48:34.522 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept
DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]
00019638.004 |12:48:34.522 |AppInfo |Digit Analysis: getDaRes - Remote Destination [] isURI[1]
00019638.005 |12:48:34.522 |AppInfo |Digit analysis: patternUsage=2
00019638.006 |12:48:34.522 |AppInfo |Digit analysis: match(pi="2", fqcn="9110006",
cn="9110006",plv="5", pss="", TodFilteredPss="", dd="9110001",dac="1")
00019638.007 |12:48:34.522 |AppInfo |Digit analysis: analysis results
00019638.008 |12:48:34.522 |AppInfo ||PretransformCallingPartyNumber=9110006
|CallingPartyNumber=9110006
|DialingPartition=
|DialingPattern=9110001
|FullyQualifiedCalledPartyNumber=9110001
|DialingPatternRegularExpression=(9110001)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=9110001
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=9110001
|CollectedDigits=9110001

### CUCM determines call must stay on same node and go to LineControl
(PID=LineControl(2,100,174,19))

00019640.001 |12:48:34.522 |AppInfo |Digit analysis: wait_DmPidRes- Partition=[]
```

Pattern=[9110001] Where=[],cmDeviceType=[UserDevice], OutsideDialtone =[0], DeviceOverride=[0], PID=LineControl(2,100,174,7),CI=[49613637],Sender=Cdcc(2,100,219,1)

### CUCM extends the call to the called phone

00019657.003 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG whatToDo: line=1 calls=0 limit=4, busy=2. GCI=(2, 7001), cm\_PL=(5, 0).  
00019657.004 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG whatToDo: busy trigger not hit... send to open appearance  
00019657.005 |12:48:34.560 |AppInfo |preFilterCapCount =[11], preFilterCaps :: (Cap)=(25) (6) (4) (2) (7) (8) (15) (16) (11) (12) (257) Filtering Caps due to Service Parameter Configuration postFilterCapCount =[8], postFilterCaps :: (Cap)=(25) (4) (2) (15) (16) (11) (12) (257)  
00019657.006 |12:48:34.560 |AppInfo |preFilterCapCount =[0], preFilterCaps :: (Cap)= Filtering Caps due to Service Parameter Configuration postFilterCapCount =[0], postFilterCaps :: (Cap)=  
00019657.007 |12:48:34.560 |Created | | |  
|StationCdpc(2,100,64,2) |StationD(2,100,63,7) | | |  
|NumOfCurrentInstances: 2  
00019657.008 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.  
00019657.009 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG- saveRinger for: ci=49613638, line=1, mode=2, cm\_precedence=5, callPhase=5.  
00019657.010 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG- saveRinger: ci=49613638, line=1, mode=2, cm\_precedence=5, callPhase=5, modifier=0  
00019657.011 |12:48:34.560 |AppInfo |StationD: (0000007) INFO sendCallAcceptReq: Try to send StationLineCallAccept to cdpc=2 .  
00019657.012 |12:48:34.560 |AppInfo |StationD: (0000007) playRinger for: ci=49613638.  
00019657.013 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.  
00019657.014 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.  
00019657.015 |12:48:34.560 |AppInfo |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.

### The Called (recorded) phone goes off hook

00019709.001 |12:48:36.042 |AppInfo |StationD: (0000007) restart0\_StationOffHook - INFO: CI=49613638 on line=1, SPKMode=0, alwaysPrimeLine=0, alwaysUsePrimeLineForVM=0, fid=9999, offHookTrigger=1.

### CUCM Tells the calling phone to open the logical channel

00019773.001 |12:48:36.061 |AppInfo |StationD: (0000005) SEP0018195AA209 , star\_MediaExchangeAgenaOpenLogicalChannel packetSize=20, codec=4, ci=49613637

### CUCM Tells the called (recorded) to open the logical channel

00019776.001 |12:48:36.061 |AppInfo |StationD: (0000007) SEP001795BDD16B , star\_MediaExchangeAgenaOpenLogicalChannel packetSize=20, codec=4, ci=49613638

### CUCM Tells the calling phone to open the receive channel

00019784.002 |12:48:36.062 |AppInfo |StationD: (0000005) OpenReceiveChannel conferenceID=49613637 passThruPartyID=33554433 millisecondPacketSize=20 compressionType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierIn=? sourceIpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33). myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)

### Codec locked due to recording on called (recorded) phone

00019785.003 |12:48:36.062 |AppInfo | StationCdpc: star\_MediaExchangeAgenaQueryCapability - Device SEP001795BDD16B, codec locked due to recording, codecType=4

### CUCM Tells the called (recorded) phone to open the receive channel

```
00019788.002 |12:48:36.062 |AppInfo |StationD: (0000007) OpenReceiveChannel
conferenceID=49613638 passThruPartyID=33554434 millisecondPacketSize=20
compressionType=4(Media_Payload_G711Ulaw64k) RFC2833PayloadType=0 qualifierIn=?
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28). myIP:
IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)
```

### CUCM allocates the BiB on the called (recorded) phone

```
00019830.000 |12:48:36.074 |SdlSig |MrmAllocateUcbResourceReq |waiting
|MediaResourceManager(2,100,138,1) |Cc(2,100,220,1)
|2,100,14,19.206^10.48.32.33^SEP001795BDD16B |[R:N-H:0,N:1,L:0,V:0,Z:0,D:0] CI=49613639
SsType=33554461 SsKey=1 BridgeType=0 MRGLPkid= NumStream=1 Bib=89cdb152-4ef2-4d60-9e6b-
ab8c77c22618 BibTgCi=49613638 FeatId=159 PL=5 PLDmn=0 DeviceCapability=0 NumVideoCapable=0
requestDeviceType=0 requestDeviceLocale=64 forkingDevicePosition=2 playToneDir=3
```

### BiB places it's first call to recording destination address (cn is calling number which is the BiB cn="b00223906001" and it is dialing the recordingdestination dd="8675309")

```
00019889.001 |12:48:36.100 |AppInfo |Digit Analysis: star_DaReq: daReq.partitionSearchSpace(),
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()
00019889.002 |12:48:36.100 |AppInfo |Digit Analysis: star_DaReq: Matching Legacy Numeric,
digits=8675309
00019889.003 |12:48:36.100 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept
DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]
00019889.004 |12:48:36.100 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309]
isURI[0]
00019889.005 |12:48:36.100 |AppInfo |CMUtility routeCallThroughCTIRD: no matching
RemDestDynamic record exists for remdest [8675309]
00019889.006 |12:48:36.100 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 8675309
00019889.007 |12:48:36.100 |AppInfo |DbMobility: getMatchedRemDest: full match case
00019889.008 |12:48:36.100 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic
record exists for remdest [8675309]
00019889.009 |12:48:36.100 |AppInfo |DbMobility: can't find remdest 8675309 in map
00019889.010 |12:48:36.100 |AppInfo |Digit analysis: patternUsage=5
00019889.011 |12:48:36.100 |AppInfo |Digit analysis: match(pi="1", fqcn="",
cn="b00223906001",plv="5", pss="E911_PT:Phones_PT:EMERGENCY_PT:INTERNAL_PT:INFORMACAST_PT",
TodFilteredPss="E911_PT:Phones_PT:EMERGENCY_PT:INTERNAL_PT:INFORMACAST_PT",
dd="8675309",dac="1")
00019889.012 |12:48:36.100 |AppInfo |Digit analysis: analysis results
00019889.013 |12:48:36.100 |AppInfo ||PretransformCallingPartyNumber=b00223906001
|CallingPartyNumber=b00223906001
|DialingPartition=
|DialingPattern=8675309
|FullyQualifiedCalledPartyNumber=8675309
|DialingPatternRegularExpression=(8675309)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=8675309
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=8675309
|CollectedDigits=8675309
```

### Calling phone sends CUCM the ORC ACK

```
00019912.001 |12:48:36.139 |AppInfo |StationInit: (0000005) OpenReceiveChannelAck Status=0,
IpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28), Port=31678,
PartyID=33554433
```

### CUCM sends startMediaTransmission to the called (recorded) phone telling the phone to send

RTP to the calling phone (10.48.32.28)

```
00019920.001 |12:48:36.139 |AppInfo |StationD: (0000007) startMediaTransmission
conferenceID=49613638 passThruPartyID=33554434 remoteIpAddress=IpAddr.type:0
ipAddr:0x0e30201c000000000000000000000000(10.48.32.28) remotePortNumber=31678
milliSecondPacketSize=20 compressType=4(Media_Payload_G711Ulaw64k) RFC2833PayloadType=0
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)
```

### Called (recorded) phone sends CUCM the ORC ACK

```
00019959.001 |12:48:36.145 |AppInfo |StationInit: (0000007) OpenReceiveChannelAck Status=0,
IpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33), Port=28360,
PartyID=33554434
```

### CUCM sends startMediaTransmission to the calling phone telling the phone to send RTP to the called phone (10.48.32.33)

```
00019977.001 |12:48:36.146 |AppInfo |StationD: (0000005) startMediaTransmission
conferenceID=49613637 passThruPartyID=33554433 remoteIpAddress=IpAddr.type:0
ipAddr:0x0e302021000000000000000000000000(10.48.32.33) remotePortNumber=28360
milliSecondPacketSize=20 compressType=4(Media_Payload_G711Ulaw64k) RFC2833PayloadType=0
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)
```

```
### BiB places second call to recording destination address (cn is calling number which is the
BiB cn="b00223906001" and it is dialing the recordingdestination dd="8675309")
Note that the BiB number stayed the same (b00223906001) and so did the recordingdestination
number 00020002.001 |12:48:36.147 |AppInfo |Digit Analysis: star_DaReq:
daReq.partitionSearchSpace(), filteredPartitionSearchSpaceString(), partitionSearchSpaceString()
00020002.002 |12:48:36.147 |AppInfo |Digit Analysis: star_DaReq: Matching Legacy Numeric,
digits=8675309 00020002.003 |12:48:36.147 |AppInfo |Digit Analysis: getDaRes data:
daRes.ssType=[0] Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0],
DaRes.NotifyCount=[0] 00020002.004 |12:48:36.147 |AppInfo |Digit Analysis: getDaRes - Remote
Destination [8675309] isURI[0] 00020002.005 |12:48:36.147 |AppInfo |CMUtility
routeCallThroughCTIRD: no matching RemDestDynamic record exists for remdest [8675309]
00020002.006 |12:48:36.147 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 8675309
00020002.007 |12:48:36.147 |AppInfo |DbMobility: getMatchedRemDest: full match case 00020002.008
|12:48:36.147 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic record exists
for remdest [8675309] 00020002.009 |12:48:36.147 |AppInfo |DbMobility: can't find remdest
8675309 in map 00020002.010 |12:48:36.147 |AppInfo |Digit analysis: patternUsage=5 00020002.011
|12:48:36.147 |AppInfo |Digit analysis: match(pi="1", fqc="", cn="b00223906001",plv="5",
pss="E911_PT:Phones_PT:EMERGENCY_PT:INTERNAL_PT:INFORMACAST_PT",
TodFilteredPss="E911_PT:Phones_PT:EMERGENCY_PT:INTERNAL_PT:INFORMACAST_PT",
dd="8675309",dac="1") 00020002.012 |12:48:36.147 |AppInfo |Digit analysis: analysis results
00020002.013 |12:48:36.147 |AppInfo ||PretransformCallingPartyNumber=b00223906001
|CallingPartyNumber=b00223906001 |DialingPartition= |DialingPattern=8675309
|FullyQualifiedCalledPartyNumber=8675309 |DialingPatternRegularExpression=(8675309)
|DialingWhere= |PatternType=Enterprise |PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0) |PretransformDigitString=8675309 |PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=8675309 |CollectedDigits=8675309 |UnconsumedDigits=
|TagsList=SUBSCRIBER |PositionalMatchList=8675309
```

### CUCM sends INVITE #1 to configured recording server (10.48.32.170)

```
00020086.001 |12:48:36.156 |AppInfo |//SIP/SIPUdp/wait_SdlSPISignal: Outgoing SIP UDP message
to 10.48.32.170:[5060]:
[901,NET]
INVITE sip:8675309@10.48.32.170:5060 SIP/2.0
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK4f2a857d3d
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-
nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-
farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-
farendaddr=9110006>;tag=351~713e2333-4032-45f1-b1f5-e33cf47lacec-49613642
To: <sip:8675309@10.48.32.170>
```

Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM10.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"  
Cisco-Guid: 4017803136-0000065536-0000000001-1512058894  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off  
Contact: <sip:9110001@10.48.32.90:5060>;isFocus  
Max-Forwards: 70  
Content-Length: 0

### CUCM sends INVITE #2 to configured recording server (10.48.32.170)

00020088.001 |12:48:36.157 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[902,NET]

INVITE sip:8675309@10.48.32.170:5060 SIP/2.0

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK5014378d0b

From: <sip:9110001@10.48.32.90;x-farend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf47lacec-49613645

To: <sip:8675309@10.48.32.170>

Date: Tue, 14 Oct 2014 16:48:36 GMT

Call-ID: ef7acf80-43d153e4-51-5a20300e@10.48.32.90

Supported: timer,resource-priority,replaces

Min-SE: 1800

User-Agent: Cisco-CUCM10.5

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

CSeq: 101 INVITE

Expires: 180

Allow-Events: presence, kpml

Supported: X-cisco-srtp-fallback

Supported: Geolocation

Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"

Cisco-Guid: 4017803136-0000065536-0000000002-1512058894

Session-Expires: 1800

P-Asserted-Identity: <sip:9110001@10.48.32.90>

Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off

Contact: <sip:9110001@10.48.32.90:5060>;isFocus

Max-Forwards: 70

Content-Length: 0

### CUCM receives a 200 OK from recording server for INVITE #1

00020089.001 |12:48:36.161 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 731 from 10.48.32.170:[5060]:

[903,NET]

SIP/2.0 200 OK

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK4f2a857d3d

From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-b1f5-e33cf47lacec-49613642

To: <sip:8675309@10.48.32.170>;tag=1  
Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90  
CSeq: 101 INVITE  
Contact: <sip:10.48.32.170:5060;transport=udp>  
Content-Type: application/sdp  
Content-Length: 135

v=0  
o=user1 53655765 2353687637 IN IP4 10.48.32.170  
s=-  
c=IN IP4 10.48.32.170  
t=0 0  
m=audio 6000 RTP/AVP 0  
a=rtpmap:0 PCMU/8000

### CUCM receives a 200 OK from recording server for INVITE #2

00020092.001 |12:48:36.161 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message  
size 730 from 10.48.32.170:[5060]:  
[905,NET]

SIP/2.0 200 OK

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK5014378d0b

From: <sip:9110001@10.48.32.90;x-farend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-  
nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-  
farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-  
farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf47lacec-49613645

To: <sip:8675309@10.48.32.170>;tag=2

Call-ID: ef7acf80-43d153e4-51-5a20300e@10.48.32.90

CSeq: 101 INVITE

Contact: <sip:10.48.32.170:5060;transport=udp>

Content-Type: application/sdp

Content-Length: 135

v=0  
o=user1 53655765 2353687637 IN IP4 10.48.32.170  
s=-  
c=IN IP4 10.48.32.170  
t=0 0  
m=audio 6000 RTP/AVP 0  
a=rtpmap:0 PCMU/8000

### Region information for connecting audio for recording call, both appear to support G.711.  
Note that the bandwidth capabilities printed is kbps=8 meaning the region relationship between  
the two regions is limited to codecs using 8kbps or less. 00020160.005 |12:48:36.190 |AppInfo  
|DET-RegionsServer::matchCapabilities-- savedOption=3, PREF\_NONE, regionA=(null) regionB=(null)  
latentCaps(A=0, B=0) kbps=8, capACount=1, capBCount=1 00020160.006 |12:48:36.190 |AppInfo |DET-  
MediaManager-(2)::checkAudioPassThru, param(bPostMTPAllocation=0,chkTrp=1), capCount(1,1),  
mtpPT=1, aPT=2 00020160.007 |12:48:36.190 |AppInfo |DET-MediaManager-(2)::preCheckCapabilities,  
**region1=Default, region2=RecordingTrunk, Pty1** capCount=1 (Cap,ptime)= **(4,20)**, **Pty2** capCount=1  
(Cap,ptime)= **(4,20)**

00020160.008 |12:48:36.190 |AppInfo |DET-RegionsServer::matchCapabilities-- savedOption=0,  
PREF\_NONE, regionA=(null) regionB=(null) latentCaps(A=0, B=0) **kbps=8**, capACount=1, capBCount=1

### CUCM determines 2 transcoders are required and attempts to allocate

00020160.011 |12:48:36.190 |AppInfo |DET-MediaManager-(2)::preCheckCapabilities, **caps mismatch!**  
**Xcoder Req'd. kbps(8)**, filtered A[capCount=0 (Cap,ptime)=], B[capCount=0 (Cap,ptime)=] allowMTP=0  
**numXcoderRequired=2** xcodingSide=0

### No transcoder is configured which can cause this call to fail

00020162.003 |12:48:36.190 |AppInfo |MediaResourceManager::sendAllocationResourceErr - ERROR -  
no transcoder device configured

### CUCM sendt the ACK and BYE to the recording server in response to INVITE #1  
Note the Q.850 cause code

00020210.001 |12:48:36.216 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[906,NET]

ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK51257b2b47

From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-b1f5-e33cf47lacec-49613642

To: <sip:8675309@10.48.32.170>;tag=1

Date: Tue, 14 Oct 2014 16:48:36 GMT

Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90

User-Agent: Cisco-CUCM10.5

Max-Forwards: 70

CSeq: 101 ACK

Allow-Events: presence, kpml

Content-Length: 0

00020211.001 |12:48:36.216 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[907,NET]

BYE sip:10.48.32.170:5060;transport=UDP SIP/2.0

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK526f3d2afa

From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=GlensCUCM10-5;x-nearenddevice=SEP001795BDD16B;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=GlensCUCM10-5;x-farenddevice=SEP0018195AA209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-b1f5-e33cf47lacec-49613642

To: <sip:8675309@10.48.32.170>;tag=1

Date: Tue, 14 Oct 2014 16:48:36 GMT

Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90

User-Agent: Cisco-CUCM10.5

Max-Forwards: 70

P-Asserted-Identity: <sip:9110001@10.48.32.90>

CSeq: 102 BYE

**Reason: Q.850;cause=47**

Content-Length: 0

### CUCM sendt the ACK and BYE to the recording server in response to INVITE #2  
Note the Q.850 cuase code in the BYE

00020248.001 |12:48:36.218 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[908,NET]

ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0

Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK531df920a6

From: <sip:9110001@10.48.32.90;x-farend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf47lacec-49613645

To: <sip:8675309@10.48.32.170>;tag=2

Date: Tue, 14 Oct 2014 16:48:36 GMT

Call-ID: ef7acf80-43d153e4-51-5a20300e@10.48.32.90

User-Agent: Cisco-CUCM10.5

Max-Forwards: 70

CSeq: 101 ACK

Allow-Events: presence, kpml

Content-Length: 0



```
00020249.001 |12:48:36.218 |AppInfo |//SIP/SIPUdp/wait_SdlSPISignal: Outgoing SIP UDP message to
10.48.32.170:[5060]: [909,NET] BYE sip:10.48.32.170:5060;transport=UDP SIP/2.0 Via: SIP/2.0/UDP
10.48.32.90:5060;branch=z9hG4bK5462aba807 From: <sip:9110001@10.48.32.90;x-farend;x-
refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-
nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-
farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf471acec-
49613645 To: <sip:8675309@10.48.32.170>;tag=2 Date: Tue, 14 Oct 2014 16:48:36 GMT Call-ID:
ef7acf80-43d153e4-51-5a20300e@10.48.32.90 User-Agent: Cisco-CUCM10.5 Max-Forwards: 70 P-
Asserted-Identity: <sip:9110001@10.48.32.90> CSeq: 102 BYE Reason: Q.850;cause=47
Content-Length: 0
```

## CSSとPTの問題を含む誤設定

このコマンドを使用すると、ほとんどの録音設定を、コールを録音していない電話機の既知のMACアドレスだけですばやく確認できます。MAC\_of\_Phoneコマンドの一部を、ここに示す例のように、電話機の実際のMACアドレスに置き換えるだけです。

これにより、検索対象のMACのDN (複数ある場合はすべて)、確認のためだけの電話機のMAC、BIB設定、プライバシー設定、録音タイプ (ラボの例に示されている値を参照)、電話機で使用されている録音プロファイル、録音コールサーチスペース(CSS)の名前、その録音プロファイルの録音先、および検索対象のMACに基づいて録音先が関連付けられているパーティションが表示されます。

```
run sql select nl.dnorpattern as phone_dn, dev.name as phone_mac, CASE
dev.tkstatus_builtinbridge WHEN '1' THEN 'BiB is on' WHEN '0' THEN 'BiB is off' ELSE 'NA' END as
is_bib_on, CASE dev.resettoggle WHEN 't' THEN 'Privacy is on' WHEN 'f' THEN 'Privacy is off'
ELSE 'NA' END as is_privacy_on, CASE recordynam.tkrecordingflag WHEN '0' THEN 'Recording
Disabled' WHEN '1' THEN 'Automatic' WHEN '2' THEN 'Selective' ELSE 'NA' END as recording_type,
CASE devnumplanmap.tkpreferredmediasource WHEN '1' THEN 'Gateway Preferred' WHEN '2' THEN 'Phone
Preferred' ELSE 'NA' END as Recording_Media_Source, rcrdpro.name as recording_profile_name,
css.name as css_used_by_recording_profile, rcrdpro.recorderdestination as
recording_route_pattern, rp.name as required_partition_for_css_used_by_recording_profile from
recordingprofile as rcrdpro inner join callingsearchspace as css on
rcrdpro.fkcallingsearchspace_callrecording = css.pkid inner join numplan as n on n.dnorpattern =
rcrdpro.recorderdestination inner join routepartition as rp on rp.pkid = n.fkroutepartition
inner join devicenumplanmap as devnumplanmap on rcrdpro.pkid = devnumplanmap.fkrecordingprofile
inner join recordingdynamic as recordynam on devnumplanmap.pkid = recordynam.fkdevicenumplanmap
inner join device as dev on devnumplanmap.fkdevice = dev.pkid inner join numplan as nl on
devnumplanmap.fknumplan = nl.pkid where css.pkid = rcrdpro.fkcallingsearchspace_callrecording
and dev.name='MAC_of_Phone'
```

これにより、検索対象の電話機のMACに関連付けられている録音プロファイル上の録音CSSに関連付けられているパーティションのリストが表示されます。

```
run sql select css.name as name_of_the_recording_css, rp.name as partitions_in_recording_css,
csm.sortorder from callingsearchspace as css inner join callingsearchspacemember as csm on
csm.fkcallingsearchspace = css.pkid inner join routepartition as rp on csm.fkroutepartition =
rp.pkid inner join recordingprofile as rcrdpro on rcrdpro.fkcallingsearchspace_callrecording =
css.pkid inner join devicenumplanmap as devnumplanmap on rcrdpro.pkid =
devnumplanmap.fkrecordingprofile inner join device as dev on devnumplanmap.fkdevice = dev.pkid
where css.pkid = rcrdpro.fkcallingsearchspace_callrecording and dev.name='MAC_of_Phone'
```

MACアドレスがSEPC80084AA8743の電話機に対するラボの出力例を次に示します。

このコマンドでは、電話機に2003のDNが1つしかなく、BIBがOn、プライバシーがOff、録音タイプがautomatic、優先ソースがphone、録音プロファイルがTest Recording Profile、録音コーリングサーチスペースがINTERNAL\_CSS、録音コールのルートパターンが8675309で、そのパターンがパーティションINTERNAL PTに関連付けられていることがわかります。

```

run sql select nl.dnorpattern as phone_dn, dev.name as phone_mac, CASE
dev.tkstatus_builtinbridge WHEN '1' THEN 'BiB is on' WHEN '0' THEN 'BiB is off' ELSE 'NA' END as
is_bib_on, CASE dev.resettoggle WHEN 't' THEN 'Privacy is on' WHEN 'f' THEN 'Privacy is off'
ELSE 'NA' END as is_privacy_on, CASE recordynam.tkrecordingflag WHEN '0' THEN 'Recording
Disabled' WHEN '1' THEN 'Automatic' WHEN '2' THEN 'Selective' ELSE 'NA' END as recording_type,
CASE devnumplanmap.tkpreferredmediasource WHEN '1' THEN 'Gateway Preferred' WHEN '2' THEN 'Phone
Preferred' ELSE 'NA' END as Recording_Media_Source, rcrdpro.name as recording_profile_name,
css.name as css_used_by_recording_profile, rcrdpro.recorderdestination as
recording_route_pattern, rp.name as required_partition_for_css_used_by_recording_profile from
recordingprofile as rcrdpro inner join callingsearchspace as css on
rcrdpro.fkcallingsearchspace_callrecording = css.pkid inner join numplan as n on n.dnorpattern =
rcrdpro.recorderdestination inner join routepartition as rp on rp.pkid = n.fkroutepartition
inner join devicenumplanmap as devnumplanmap on rcrdpro.pkid = devnumplanmap.fkrecordingprofile
inner join recordingdynamic as recordynam on devnumplanmap.pkid = recordynam.fkdevicenumplanmap
inner join device as dev on devnumplanmap.fkdevice = dev.pkid inner join numplan as nl on
devnumplanmap.fknumplan = nl.pkid where css.pkid = rcrdpro.fkcallingsearchspace_callrecording
and dev.name='SEPC80084AA8743'

```

```

phone_dn phone_mac is_bib_on is_privacy_on recording_type recording_media_source
recording_profile_name css_used_by_recording_profile recording_route_pattern
required_partition_for_css_used_by_recording_profile
=====
=====
=====
2003 SEPC80084AA8743 BiB is on Privacy is off Automatic Phone Preferred Test Recording Profile
INTERNAL_CSS 8675309 INTERNAL_PT

```

このコマンドの出力を使用すると、録音CSSのすべてのパーティションと、対象の電話機に関連付けられている録音プロファイルを確認できます。パーティションINTERNAL\_PTが、コーリングサーチスペースINTERNAL\_CSSに関連付けられているパーティションの1つであることがわかります。これは、録音ルートパターンをコールできる電話機のBIBに問題がないことを意味します。

```

run sql select css.name as name_of_the_recording_css, rp.name as partitions_in_recording_css,
csm.sortorder from callingsearchspace as css inner join callingsearchspacemember as csm on
csm.fkcallingsearchspace = css.pkid inner join routepartition as rp on csm.fkroutepartition =
rp.pkid inner join recordingprofile as rcrdpro on rcrdpro.fkcallingsearchspace_callrecording =
css.pkid inner join devicenumplanmap as devnumplanmap on rcrdpro.pkid =
devnumplanmap.fkrecordingprofile inner join device as dev on devnumplanmap.fkdevice = dev.pkid
where css.pkid = rcrdpro.fkcallingsearchspace_callrecording and dev.name='SEPC80084AA8743'
name_of_the_recording_css partitions_in_recording_css sortorder
=====
INTERNAL_CSS          E911_PT              1
INTERNAL_CSS          Phones_PT            2
INTERNAL_CSS          EMERGENCY_PT        3
INTERNAL_CSS          INTERNAL_PT         4
INTERNAL_CSS          INFORMACAST_PT      5

```

## 関連情報

- [Cisco Collaboration System 11.xソリューションリファレンスネットワークデザイン\(SRND\)](#)

## 翻訳について

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