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简介

本文描述呼叫记录基础在Cisco Unified Communications Manager (CUCM)内的，预计媒体流，会话初始化协议(SIP)和小型客户机控制协议(SCCP)设备的期望的呼叫流和呼叫记录设置失败常见的类型的示例。

先决条件

要求

用一个第三方录音服务器集成的CUCM。

使用的组件

CUCM、Cisco IP电话(IP是互联网协议)和呼叫记录服务器。

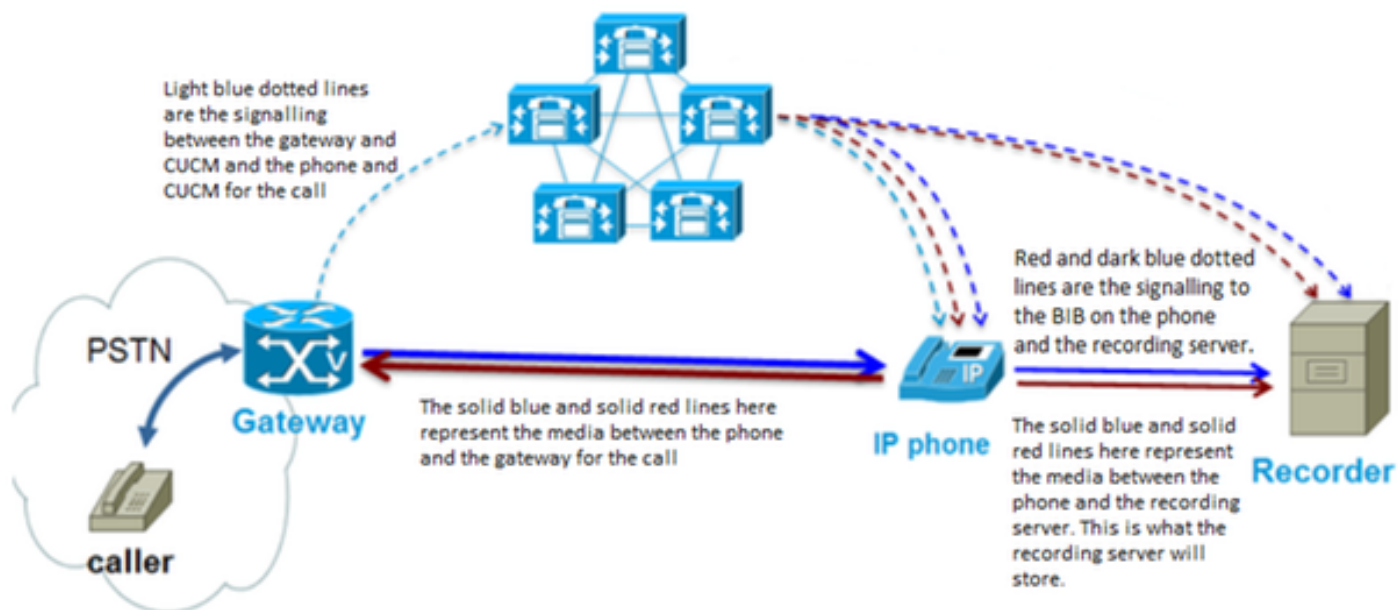
呼叫记录的类型

自动

自动呼叫录音关键要素如下：

- 使用IP电话构件在网桥？叉子？对录音目的地的音频
- 启动，在IP电话发出呼叫或收到呼叫时候
- 要求在CUCM和录音目的地之间的仅一SIP中继。一些录音供应商需要CTI (计算机电话集成)集成
- 不允许查找在可管理的网络外面电话的录音(必须访问是的发送RTP直接地对记录的服务器和Cisco IP电话能够分配一被建立的--网桥)

在下图所示中实线代表预计媒体流，并且破折线代表预计信号流：

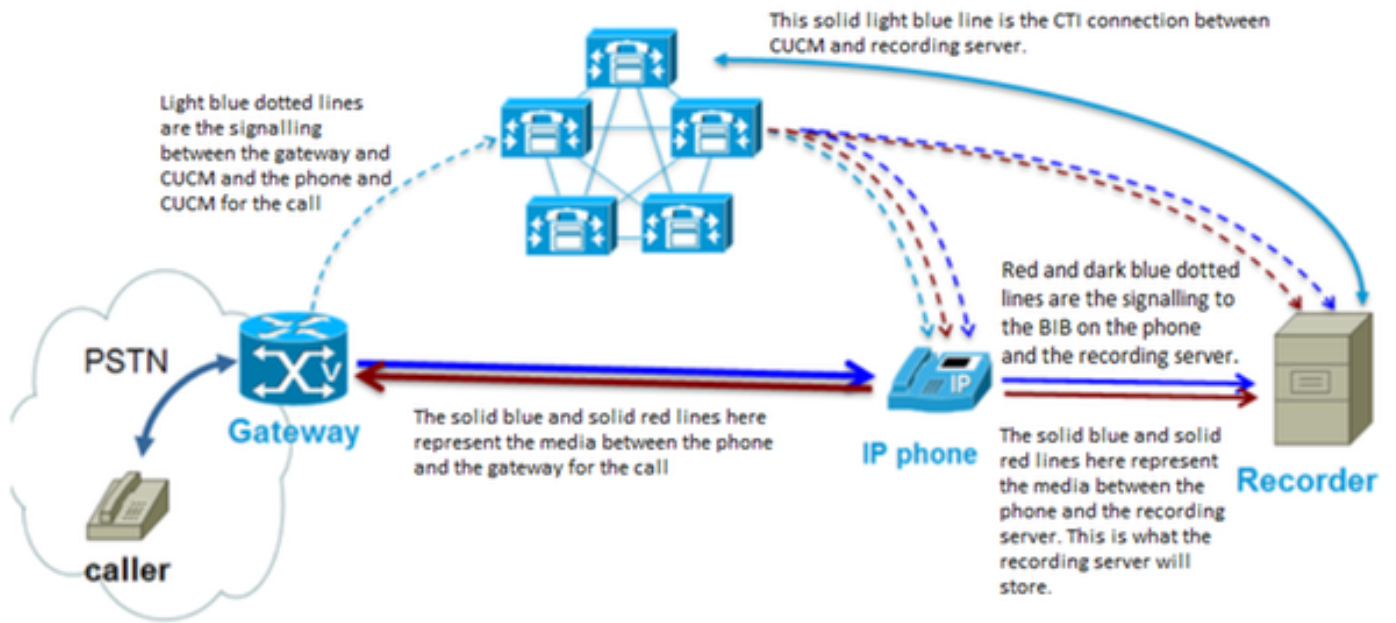


被调用的应用程序

应用程序被调用的呼叫记录关键要素如下：

- 使用IP电话构件在网桥？叉子？对录音目的地的音频
- 启动，当应用程序(录制器)指明应该启动
- 要求SIP中继和CTI集成与录音应用程序
- CTI应用程序用户必须访问需要被记录的终端
- 不允许查找在可管理的网络外面电话的录音(必须访问发送RTP直接地对记录的服务器)

在下图所示中实线代表预计媒体流，并且破折线代表预计信号流。在CUCM和录音服务器之间的实线表示CUCM和应用程序之间的一CTI连接。

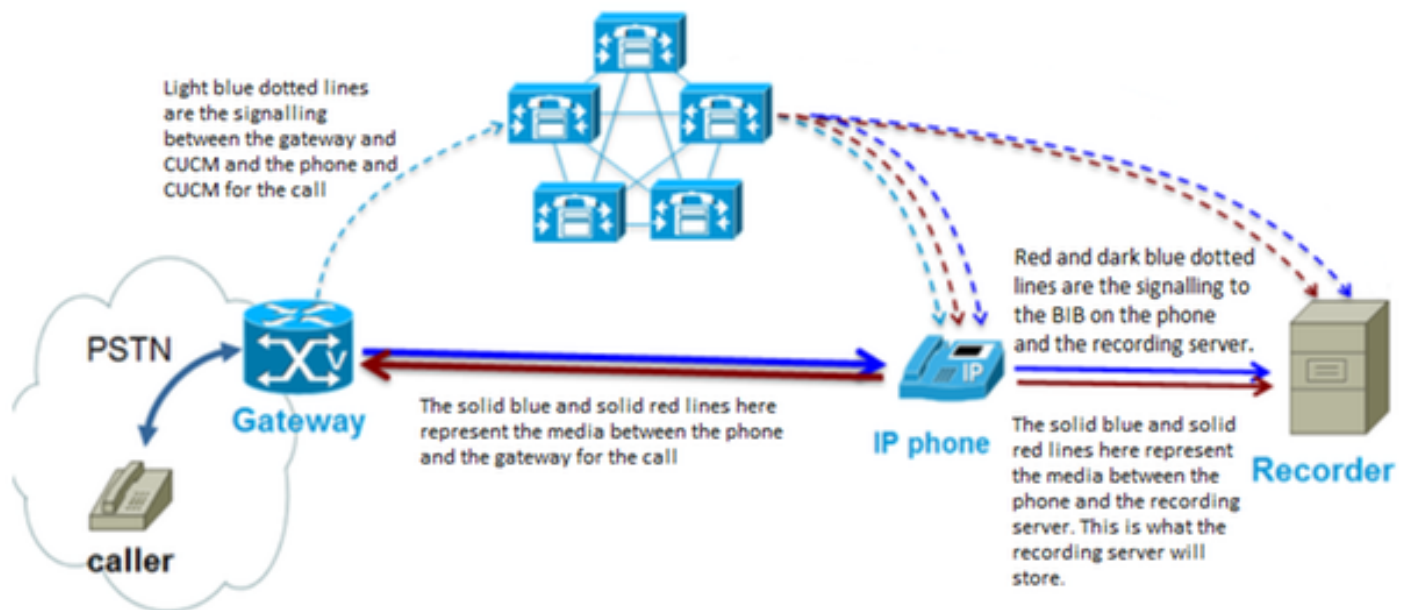


有选择性

有选择性的呼叫记录关键要素如下：

- 使用IP电话构件在网桥？叉子？对录音目的地的音频
- 启动，在IP电话用户选择记录选项在他们的IP电话(CUCM 9.x+)时候或在一应用程序类似在[此镜像](#)
- 典型地要求在CUCM和录音目的地之间的仅一SIP中继(依靠录音应用供应商)
- 不允许位于在可管理的网络外面电话的录音(必须访问发送RTP直接地对记录的服务器)

正如你在下图所示看到，媒体和信号路径非常类似于自动呼叫录音：



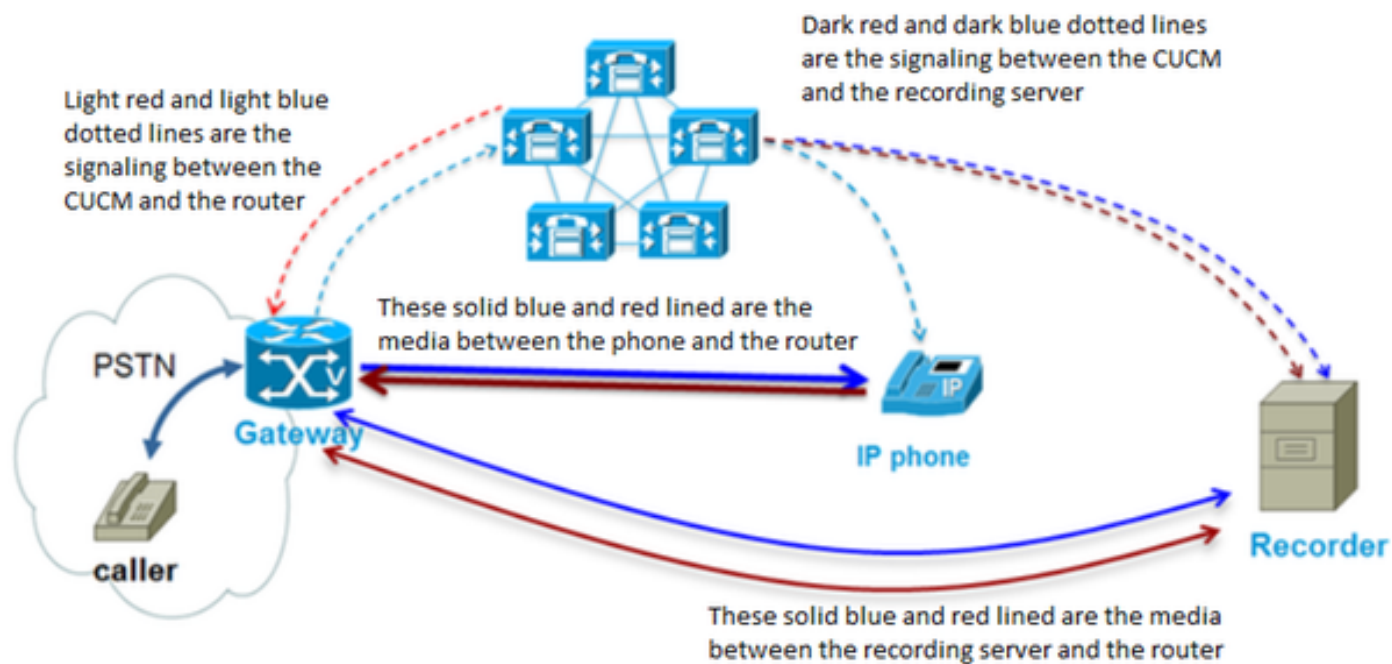
基于网关的

网关basedcall录音关键要素如下：

- 语音网关分叉往录音目的地的媒体

- CUCM向网关登记作为应用程序
- CUCM使用HTTP指示GW放出媒体到记录的目的地
- CUCM集成录音目的地通过SIP中继
- 允许通过可管理的网络呼叫的录音(例如，对移动用户)或为电话不支持围嘴

正如你从下图所示看到，媒体流是相当与呼叫记录不同的其他类型：



自动呼叫仅SIP集成的录音配置

此部分描述如何设置录音服务器的SIP集成。


创建SIP中继对录音目的地

- 在设备>中继下，精选请添加新
- 创建有以下设置的一SIP中继：

Trunk Configuration



Status

 Status: Ready

Trunk Information

Trunk Type* SIP Trunk ▼
Device Protocol* SIP ▼
Trunk Service Type* None(Default) ▼

Next

- 输入适当的设备名、设备池、MRGL，SIP中继安全配置文件和SIP配置文件
- 配置的目的地址将是录音应用服务器的地址。在下面的示例中录音服务器是14.48.32.170

SIP Information

Destination





Destination Address is an SRV

	Destination Address	Destination Address IPv6	Destination Port
1*	14.48.32.170		5060


创建录音配置文件

- 在设备>设备设置>录音配置文件下
- 记录的目的地址是录音呼叫将被发送的地方

Recording Profile Configuration

 Save
  Delete
  Copy
  Add New

Status

 Status: Ready

Recording Profile Information

Name*

Recording Calling Search Space

Recording Destination Address *

创建路由模式路由录音呼叫

- 创建匹配在上一步配置的录音目的地址的路由模式
- 如果希望配置冗余的SIP中继，您能指向路由列表而不是直接地SIP中继

请注意:必须关联划分分配到此路由模式与录音呼叫搜索空间。

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

分配录音配置文件到电话线路

- 在有一现有分机的一个已经已创建电话上，请分配创建的录音配置文件
- 在此位置分配呼叫记录种类
- 此示例显示自动录音

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

设置围嘴至开和保密性对在Phone Configuration页

当在设备配置页请导航对题为**设备信息**时的seciont。设置构件在网桥对和保密性对。

Built In Bridge*	On
Privacy*	Off

验证

下面是在Callmanager跟踪的预料之中的行为SCCP的，并且SIP打电话给上述配置。这些示例是为呼叫在同一集群的电话另一个电话，当其中一个电话为呼叫记录时设置。

SCCP

```

~~~~~Normal CCM Traces for SCCP phone to SCCP phone with SIP Integrated Call
Recording~~~~~### Calling phone places call03796977.001 |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=911000103797017.003
|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=203797017.006 |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
results03797017.008 |20:21:08.057 |AppInfo
| |PretransformCallingPartyNumber=9110006|CallingPartyNumber=9110006|DialingPartition=|DialingPat
tern=9110001|FullyQualifiedCalledPartyNumber=9110001|DialingPatternRegularExpression=(9110001)|D
ialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSdlProcessId
=(0,0,0)|PretransformDigitString=9110001|PretransformTagsList=SUBSCRIBER|PretransformPositionalM
atchList=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
phone03797036.003 |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 appearance03797036.005
|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: 203797036.008 |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=003797036.011 |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 hook03797089.001 |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 channel03797153.001 |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 channel03797156.001 |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
channel03797164.002 |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(14.48.32.33) . myIP:
IpAddr.type:0 ipv4Addr:0x0e30201c(14.48.32.28)### CUCM Tells the called (recorded party) phone
to open the receive channel03797168.002 |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(14.48.32.28) . myIP:
IpAddr.type:0 ipv4Addr:0x0e302021(14.48.32.33)### CUCM allocates BIB on called (recorded)
phone03797210.000 |20:21:09.338 |SdlSig |MrmAllocateUcbResourceReq |waiting
|MediaResourceManager(2,100,138,1) |Cc(2,100,220,1)
|2,100,14,8384.91^14.48.32.33^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=867530903797269.003
|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 = 867530903797269.007 |20:21:09.340 |AppInfo
|DbMobility: getMatchedRemDest: full match case03797269.008 |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 map03797269.010 |20:21:09.340
|AppInfo |Digit analysis: patternUsage=503797269.011 |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
results03797269.013 |20:21:09.340 |AppInfo
||PretransformCallingPartyNumber=b00223908001|CallingPartyNumber=b00223908001|DialingPartition=|
DialingPattern=8675309|FullyQualifiedCalledPartyNumber=8675309|DialingPatternRegularExpression=(
8675309)|DialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSd
lProcessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformP
ositionalMatchList=8675309|CollectedDigits=8675309 ### CUCM sends INVITE #1 to configured
recording server (14.48.32.170)03797320.001 |20:21:09.343 |AppInfo
|//SIP/SIPUdp/wait_SdlSPISignal: Outgoing SIP UDP message to
14.48.32.170:[5060]:[212231,NET]INVITE sip:8675309@14.48.32.170:5060 SIP/2.0Via: SIP/2.0/UDP
14.48.32.90:5060;branch=z9hG4bK204d520fedb3From: <sip:9110001@14.48.32.90;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-b1f5-e33cf471acec-38960754To: <sip:8675309@14.48.32.170>Date: Tue, 30 Sep 2014 00:21:09 GMTCall-ID: abbb8e00-4291f775-204c-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presence, kpmlSupported: X-cisco-srtp-fallbackSupported: GeolocationCall-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"Cisco-Guid: 2881195520-0000065536-000000011-1512058894Session-Expires: 1800P-Asserted-Identity: <sip:9110001@14.48.32.90>Remote-Party-ID: <sip:9110001@14.48.32.90>;party=calling;screen=yes;privacy=offContact: <sip:9110001@14.48.32.90:5060>;isFocusMax-Forwards: 70Content-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 number03797367.010 |20:21:09.344 |AppInfo |Digit analysis: patternUsage=503797367.011 |20:21:09.344 |AppInfo |Digit analysis: match(pi="1", fqc=" ", 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 results03797367.013 |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 #103797390.001 |20:21:09.345 |AppInfo |//SIP/SIPUdp/wait_SdlDataInd: Incoming SIP UDP message size 737 from 14.48.32.170:[5060]:[212232,NET]SIP/2.0 200 OKVia: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK204d520fedb3From: <sip:9110001@14.48.32.90;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-b1f5-e33cf471acec-38960754To: <sip:8675309@14.48.32.170>;tag=1Call-ID: abbb8e00-4291f775-204c-5a20300e@14.48.32.90CSeq: 101 INVITEContact: <sip:14.48.32.170:5060;transport=udp>Content-Type: application/sdpContent-Length: 135v=0o=user1 53655765 2353687637 IN IP4 14.48.32.170s=-c=IN IP4 14.48.32.170t=0 0m=audio 6000 RTP/AVP 0a=rtmap:0 PCMU/8000 ### CUCM sends INVITE #2 to recording server (14.48.32.170)03797445.001 |20:21:09.348 |AppInfo |//SIP/SIPUdp/wait_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[212233,NET]INVITE sip:8675309@14.48.32.170:5060 SIP/2.0Via: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK204e754eaeaeFrom: <sip:9110001@14.48.32.90;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-b1f5-e33cf471acec-38960757To: <sip:8675309@14.48.32.170>Date: Tue, 30 Sep 2014 00:21:09 GMTCall-ID: abbb8e00-4291f775-204d-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presence, kpmlSupported: X-cisco-srtp-fallbackSupported: GeolocationCall-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"Cisco-Guid: 2881195520-0000065536-000000012-1512058894Session-Expires: 1800P-Asserted-Identity: <sip:9110001@14.48.32.90>Remote-Party-ID: <sip:9110001@14.48.32.90>;party=calling;screen=yes;privacy=offContact: <sip:9110001@14.48.32.90:5060>;isFocusMax-Forwards: 70Content-Length: 0 ### CUCM receives 200 OK in response to INVITE #203797498.001 |20:21:09.350 |AppInfo |//SIP/SIPUdp/wait_SdlDataInd: Incoming SIP UDP message size 736 from 14.48.32.170:[5060]:[212235,NET]SIP/2.0 200 OKVia: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK204e754eaeaeFrom: <sip:9110001@14.48.32.90;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-b1f5-e33cf471acec-38960757To: <sip:8675309@14.48.32.170>;tag=2Call-ID: abbb8e00-4291f775-204d-5a20300e@14.48.32.90CSeq: 101 INVITEContact: <sip:14.48.32.170:5060;transport=udp>Content-Type: application/sdpContent-Length: 135v=0o=user1 53655765 2353687637 IN IP4 14.48.32.170s=-c=IN IP4 14.48.32.170t=0 0m=audio 6000 RTP/AVP 0a=rtmap:0 PCMU/8000 ### CUCM sends outbound ACK in response to 200 OK #103797500.001 |20:21:09.351 |AppInfo |//SIP/SIPUdp/wait_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[212236,NET]ACK

sip:14.48.32.170:5060;transport=UDP SIP/2.0Via: SIP/2.0/UDP
14.48.32.90:5060;branch=z9hG4bK204f50bef815From: <sip:9110001@14.48.32.90;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-b1f5-
e33cf471acec-38960754To: <sip:8675309@14.48.32.170>;tag=1Date: Tue, 30 Sep 2014 00:21:09
GMTCall-ID: abbb8e00-4291f775-204c-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards:
70CSeq: 101 ACKAllow-Events: presence, kpmlContent-Type: application/sdpContent-Length:
254v=0o=CiscoSystemsCCM-SIP 73601 1 IN IP4 14.48.32.90s=SIP Callc=IN IP4
14.48.32.33b=TIAS:64000b=CT:64b=AS:64t=0 0m=audio 4000 RTP/AVP 0 101a=ptime:20a=rtpmap:0
PCMU/8000a=sendonlya=rtpmap:101 telephone-event/8000a=fmtp:101 0-15 ### CUCM sends
startMediaTransmission to the called (recorded) phone telling the phone to send RTP to recording
server (14.48.32.170)03797479.001 |20:21:09.350 |AppInfo |StationD: (0000114)
startMediaTransmission conferenceID=38960750 passThruPartyID=33554452
remoteIpAddress=IpAddr.type:0 ipAddr:0x0e3020aa000000000000000000000000(14.48.32.170)
remotePortNumber=6000 milliSecondPacketSize=20 compressType=4(Media_Payload_G711Ulaw64k)
RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(14.48.32.33)###
CUCM sends startMediaTransmission #2 to the called (recorded) phone telling the phone to send
RTP to recording server (14.48.32.170)03797596.001 |20:21:09.354 |AppInfo |StationD:
(0000114) startMediaTransmission conferenceID=38960750 passThruPartyID=33554453
remoteIpAddress=IpAddr.type:0 ipAddr:0x0e3020aa000000000000000000000000(14.48.32.170)
remotePortNumber=6000 milliSecondPacketSize=20 compressType=4(Media_Payload_G711Ulaw64k)
RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(14.48.32.33)###
CUCM sends outbound ACK in response to 200 OK #203797615.001 |20:21:09.354 |AppInfo
||SIP/SIPUdp/wait_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[212237,NET]ACK
sip:14.48.32.170:5060;transport=UDP SIP/2.0Via: SIP/2.0/UDP
14.48.32.90:5060;branch=z9hG4bK2050183495f1fFrom: <sip:9110001@14.48.32.90;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-b1f5-
e33cf471acec-38960757To: <sip:8675309@14.48.32.170>;tag=2Date: Tue, 30 Sep 2014 00:21:09
GMTCall-ID: abbb8e00-4291f775-204d-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards:
70CSeq: 101 ACKAllow-Events: presence, kpmlContent-Type: application/sdpContent-Length:
254v=0o=CiscoSystemsCCM-SIP 73602 1 IN IP4 14.48.32.90s=SIP Callc=IN IP4
14.48.32.33b=TIAS:64000b=CT:64b=AS:64t=0 0m=audio 4000 RTP/AVP 0 101a=ptime:20a=rtpmap:0
PCMU/8000a=sendonlya=rtpmap:101 telephone-event/8000a=fmtp:101 0-15 ### Calling phone sends CUCM
the ORC ACK03797634.001 |20:21:09.385 |AppInfo |StationInit: (0000109) OpenReceiveChannelAck
Status=0, IpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(14.48.32.28),
Port=17996, PartyID=33554450### CUCM sends startMediaTransmission to the called (recorded) phone
telling the phone to send RTP to the calling phone (14.48.32.28)03797642.001 |20:21:09.385
|AppInfo |StationD: (0000114) startMediaTransmission conferenceID=38960750
passThruPartyID=33554451 remoteIpAddress=IpAddr.type:0
ipAddr:0x0e30201c000000000000000000000000(14.48.32.28) remotePortNumber=17996
milliSecondPacketSize=20 compressType=4(Media_Payload_G711Ulaw64k) RFC2833PayloadType=0
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(14.48.32.33)### Called (recorded) phone
sends CUCM the ORC ACK03797643.001 |20:21:09.454 |AppInfo |StationInit: (0000114)
OpenReceiveChannelAck Status=0, IpAddr=IpAddr.type:0
ipAddr:0x0e302021000000000000000000000000(14.48.32.33), Port=32588, PartyID=33554451### CUCM
sends startMediaTransmission to the calling phone telling the phone to send RTP to the called
phone (14.48.32.33)03797655.001 |20:21:09.454 |AppInfo |StationD: (0000109)
startMediaTransmission conferenceID=38960749 passThruPartyID=33554450
remoteIpAddress=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(14.48.32.33)
remotePortNumber=32588 milliSecondPacketSize=20 compressType=4(Media_Payload_G711Ulaw64k)
RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(14.48.32.28)

SIP

~~~~~Normal CCM Traces for SCCP phone to SIP phone with SIP Integrated Call  
Recording~~~~~### Calling phone places call01314118.001 |11:18:44.472 |AppInfo  
|StationInit: (0000004) EnblocCall calledParty=9110011.### CUCM performs digit analysis against  
the dialed digits (dd="9110011")01314127.001 |11:18:44.473 |AppInfo |Digit Analysis:  
star\_DaReq: daReq.partitionSearchSpace(), filteredPartitionSearchSpaceString(),  
partitionSearchSpaceString()01314127.002 |11:18:44.473 |AppInfo |Digit Analysis: star\_DaReq:

Matching Legacy Numeric, digits=911001101314127.003 |11:18:44.499 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]01314127.004 |11:18:44.499 |AppInfo |Digit Analysis: getDaRes - Remote Destination [] isURI[1]01314127.005 |11:18:44.506 |AppInfo |Digit analysis: patternUsage=201314127.006 |11:18:44.506 |AppInfo |Digit analysis: match(pi="2", fqcn="9110006", cn="9110006",plv="5", pss="", TodFilteredPss="", dd="9110011",dac="1")01314127.007 |11:18:44.506 |AppInfo |Digit analysis: analysis results01314127.008 |11:18:44.506 |AppInfo

||PretransformCallingPartyNumber=9110006|CallingPartyNumber=9110006|DialingPartition=|DialingPattern=9110011|FullyQualifiedCalledPartyNumber=9110011|DialingPatternRegularExpression=(9110011)|DialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSdlProcessId=(0,0,0)|PretransformDigitString=9110011|PretransformTagsList=SUBSCRIBER|PretransformPositionalMatchList=9110011|CollectedDigits=9110011### CUCM determines call must stay on same node and go to LineControl (PID=LineControl(2,100,174,19))01314129.001 |11:18:44.506 |AppInfo |Digit analysis: wait\_DmPidRes- Partition=[] Pattern=[9110011] Where=[],cmDeviceType=[UserDevice], OutsideDialtone =[0], DeviceOverride=[0], PID=LineControl(2,100,174,19),CI=[47601637],Sender=Cdcc(2,100,219,1)### CUCM sends outbound INVITE to called (recorded) phone01314173.001 |11:18:44.754 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106316,NET]INVITE sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK203b13880683From: <sip:9110006@14.48.32.90>;tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-47601638To: <sip:9110011@14.48.32.90>Date: Tue, 14 Oct 2014 15:18:44 GMTCall-ID: 6198e780-43d13ed4-203c-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presenceCall-Info: ; security= Unknown; orientation= from; gci= 2-6001; isVoip; call-instance= 1Send-Info: conference, x-cisco-conferenceAlert-Info: Remote-Party-ID: <sip:9110006@14.48.32.90;x-cisco-callback-number=9110006>;party=calling;screen=yes;privacy=offContact: <sip:9110006@14.48.32.90:5060;transport=tcp>Max-Forwards: 70Content-Length: 0### Called (recorded) phone returns 100 Trying01314174.002 |11:18:44.758 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on port 50841 index 17 with 802 bytes:[106317,NET]SIP/2.0 100 TryingVia: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK203b13880683From: <sip:9110006@14.48.32.90>;tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-47601638To: <sip:9110011@14.48.32.90>Call-ID: 6198e780-43d13ed4-203c-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:51 GMTCSeg: 101 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFOSupported: 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-8.5.1Allow-Events: kpml, dialogContent-Length: 0### Called (recorded) phone returns 180 Ringing01314178.002 |11:18:45.357 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on port 50841 index 17 with 950 bytes:[106318,NET]SIP/2.0 180 RingingVia: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK203b13880683From: <sip:9110006@14.48.32.90>;tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-47601638To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bba73e445ee-3cc7e650Call-ID: 6198e780-43d13ed4-203c-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:51 GMTCSeg: 101 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFORemote-Party-ID: "9110011" <sip:9110011@14.48.32.90>;party=called;id-type=subscriber;privacy=off;screen=yesSupported: 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-8.5.1Allow-Events: kpml, dialogContent-Length: 0### Called (recorded) phone returns 200 OK01314217.002 |11:18:48.466 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on port 50841 index 17 with 1430 bytes:[106319,NET]SIP/2.0 200 OKVia: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK203b13880683From: <sip:9110006@14.48.32.90>;tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-47601638To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bba73e445ee-3cc7e650Call-ID: 6198e780-43d13ed4-203c-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:54 GMTCSeg: 101 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow:

ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFORemote-Party-ID:  
"9110011" <sip:9110011@14.48.32.90>;party=called;id-  
type=subscriber;privacy=off;screen=yesSupported: 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-  
8.5.1Allow-Events: kpml, dialogContent-Length: 404Content-Type: application/sdpContent-  
Disposition: session;handling=optionalv=0o=Cisco-SIPUA 15076 0 IN IP4 14.48.32.17s=SIP Callt=0  
0m=audio 28354 RTP/AVP 0 8 18 102 9 116 124 101c=IN IP4 14.48.32.17a=rtpmap:0  
PCMU/8000a=rtpmap:8 PCMA/8000a=rtpmap:18 G729/8000a=fmtp:18 annexb=yesartpmap:102  
L16/16000a=rtpmap:9 G722/8000a=rtpmap:116 iLBC/8000a=fmtp:116 mode=20a=rtpmap:124  
ISAC/16000a=rtpmap:101 telephone-event/8000a=fmtp:101 0-15a=sendrecv### CUCM Tells the calling  
phone to open the logical channel01314284.001 |11:18:48.599 |AppInfo |StationD: (0000004)  
SEP0018195AA209 , star\_MediaExchangeAgenaOpenLogicalChannel packetSize=20, codec=4,  
ci=47601637### CUCM Tells the calling phone to open the receive channel01314294.002  
|11:18:48.599 |AppInfo |StationD: (0000004) OpenReceiveChannel conferenceID=47601637  
passThruPartyID=33554433 millisecondPacketSize=20 compressionType=4(Media\_Payload\_G711Ulaw64k)  
RFC2833PayloadType=101 qualifierIn=? sourceIpAddr=IpAddr.type:0  
ipAddr:0x0e302011000000000000000000000000(14.48.32.17). myIP: IpAddr.type:0  
ipv4Addr:0x0e30201c(14.48.32.28)### CUCM sends startMediaTransmission to the calling phone  
telling the phone to send RTP to the called (recorded) phone (14.48.32.17)01314295.001  
|11:18:48.599 |AppInfo |StationD: (0000004) startMediaTransmission conferenceID=47601637  
passThruPartyID=33554433 remoteIpAddress=IpAddr.type:0  
ipAddr:0x0e302011000000000000000000000000(14.48.32.17) remotePortNumber=28354  
milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=101  
qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(14.48.32.28)### CUCM sends ACK to called  
(recorded) phone telling the called phone to send media to the calling phone (14.48.32.28)  
01314344.001 |11:18:48.652 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
14.48.32.17 on port 50841 index 17 [106320,NET]ACK sip:56ce4d7f-d3a2-40fd-a8b3-  
3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP  
14.48.32.90:5060;branch=z9hG4bK203c2831c118From: <sip:9110006@14.48.32.90>;tag=38244~713e2333-  
4032-45f1-b1f5-e33cf471acec-47601638To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bba73e445ee-  
3cc7e650Date: Tue, 14 Oct 2014 15:18:44 GMTCall-ID: 6198e780-43d13ed4-203c-  
5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeq: 101 ACKAllow-Events:  
presenceContent-Type: application/sdpContent-Length: 243v=0o=CiscoSystemsCCM-SIP 38244 1 IN IP4  
14.48.32.90s=SIP Callc=IN IP4 14.48.32.28b=TIAS:64000b=CT:64b=AS:64t=0 0m=audio 17260 RTP/AVP 0  
101a=ptime:20a=rtpmap:0 PCMU/8000a=rtpmap:101 telephone-event/8000a=fmtp:101 0-15 ### CUCM  
allocates BiB on called (recorded) phone01314383.000 |11:18:48.675 |SdlSig  
|MrmAllocateUcbResourceReq |waiting  
|MediaResourceManager(2,100,138,1) |Cc(2,100,220,1)  
|2,100,14,20.16735^14.48.32.28^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 sends  
INVITE #1 to called (recorded) phone with record-invoker=auto in Call-Info field and original  
Call-ID in Join fieldNotice the SDP has a=inactive to tear down the media01314446.001  
|11:18:48.682 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on  
port 50841 index 17 [106321,NET]INVITE sip:56ce4d7f-d3a2-40fd-a8b3-  
3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP  
14.48.32.90:5060;branch=z9hG4bK203d55363a7cFrom: "Call Manager" ;tag=38246~713e2333-4032-45f1-  
b1f5-e33cf471acec-47601641To: <sip:9110011@14.48.32.90>Date: Tue, 14 Oct 2014 15:18:48 GMTCall-  
ID: 63fb4180-43d13ed8-203d-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-  
SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK,  
UPDATE, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presenceCall-Info: ; isVoip;  
record-invoker=autoJoin: 6198e780-43d13ed4-203c-5a20300e@14.48.32.90;from-  
tag=b000b4d9e8cb0bba73e445ee-3cc7e650;to-tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-  
47601638Contact: <sip:14.48.32.90:5060;transport=tcp>Remote-Party-ID: "Call Manager"  
;party=calling;screen=yes;privacy=offMax-Forwards: 70Content-Type: application/sdpContent-  
Length: 188v=0o=CiscoSystemsCCM-SIP 38246 1 IN IP4 14.48.32.90s=SIP Callc=IN IP4 14.48.32.90t=0  
0m=audio 4000 RTP/AVP 0a=label:X-relay-nearenda=rtpmap:0 PCMU/8000a=inactivea=mid:1 ### Called  
(recorded) phone returns 200 OKNotice the SDP has a=inactive to tear down the media01314449.002  
|11:18:48.702 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on  
port 50841 index 17 with 1235 bytes:[106323,NET]SIP/2.0 200 OKVia: SIP/2.0/TCP  
14.48.32.90:5060;branch=z9hG4bK203d55363a7cFrom: "Call Manager" ;tag=38246~713e2333-4032-45f1-

b1f5-e33cf471acec-47601641To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbb4457e725-6869188aCall-ID: 63fb4180-43d13ed8-203d-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:55 GMTSeq: 101 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFORemote-Party-ID: "9110011" <sip:9110011@14.48.32.90>;party=called;id-type=subscriber;privacy=off;screen=yesSupported: 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-8.5.1Allow-Events: kpml, dialogContent-Length: 202Content-Type: application/sdpContent-Disposition: session;handling=optionalv=0o=Cisco-SIPUA 4077 0 IN IP4 14.48.32.17s=SIP Callt=0m=audio 28512 RTP/AVP 0 101c=IN IP4 14.48.32.17a=rtpmap:0 PCMU/8000a=rtpmap:101 telephone-event/8000a=fmtp:101 0-15a=inactive### CUCM responds to called (recorded) phone with ACK01314452.001 |11:18:48.702 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106324,NET]ACK sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK203e9999fc7From: "Call Manager" ;tag=38246-713e2333-4032-45f1-b1f5-e33cf471acec-47601641To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbb4457e725-6869188aDate: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203d-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeq: 101 ACKAllow-Events: presenceContent-Length: 0### BiB places first call to recording destination address (cn is calling party which is the BiB cn="b0028310001" and it is dialing the recordingdestination dd="8675309")01314484.003 |11:18:48.753 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]01314484.004 |11:18:48.753 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309] isURI[0]01314484.005 |11:18:48.765 |AppInfo |CMUtility routeCallThroughCTIRD: no matching RemDestDynamic record exists for remdest [8675309]01314484.006 |11:18:48.765 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 867530901314484.007 |11:18:48.765 |AppInfo |DbMobility: getMatchedRemDest: full match case01314484.008 |11:18:48.765 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic record exists for remdest [8675309]01314484.009 |11:18:48.765 |AppInfo |DbMobility: can't find remdest 8675309 in map01314484.010 |11:18:48.765 |AppInfo |Digit analysis: patternUsage=501314484.011 |11:18:48.765 |AppInfo |Digit analysis: match(pi="1", fqc=" ", cn="b0028310001", 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")01314484.012 |11:18:48.765 |AppInfo |Digit analysis: analysis results01314484.013 |11:18:48.765 |AppInfo ||PretransformCallingPartyNumber=b0028310001|CallingPartyNumber=b0028310001|DialingPartition=|DialingPattern=8675309|FullyQualifiedCalledPartyNumber=8675309|DialingPatternRegularExpression=(8675309)|DialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSdlP rocessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformPos itionalMatchList=8675309|CollectedDigits=8675309### CUCM sends INVITE #1 to configured recording server (14.48.32.170)01314552.001 |11:18:48.795 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[106325,NET]INVITE sip:8675309@14.48.32.170:5060 SIP/2.0Via: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK203f3135e715From: <sip:9110011@14.48.32.90;x-nearend;x-refci=47601638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sepb000b4d9e8cb;x-nearendaddr=9110011;x-farendrefci=47601637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=38248-713e2333-4032-45f1-b1f5-e33cf471acec-47601642To: <sip:8675309@14.48.32.170>Date: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203e-5a20300e@14.48.32.90Supported: timer, resource-priority, replacesMin-SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presence, kpmlSupported: X-cisco-srtp-fallbackSupported: GeolocationCall-Info: ;method="NOTIFY";Event=telephone-event;Duration=500"Call-Info: ;x-cisco-video-traffic-class=DESKTOPCisco-Guid: 1677410688-0000065536-0000000001-1512058894Session-Expires: 1800P-Asserted-Identity: <sip:9110011@14.48.32.90>Remote-Party-ID: <sip:9110011@14.48.32.90>;party=calling;screen=yes;privacy=offContact: <sip:9110011@14.48.32.90:5060>;isFocusMax-Forwards: 70Content-Length: 0### CUCM sends INVITE #2 to called (recorded) phone with record-invoker=auto in Call-Info field and original Call-ID in Join fieldNotice the SDP has a=inactive to tear down the media01314575.001 |11:18:48.796 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841

index 17 [106326,NET]INVITE sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK20401b237b36From: "Call Manager" ;tag=38249~713e2333-4032-45f1-b1f5-e33cf471acec-47601644To: <sip:9110011@14.48.32.90>Date: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203f-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presenceCall-Info: ; isVoip; record-invoker=autoJoin: 6198e780-43d13ed4-203c-5a20300e@14.48.32.90;from-tag=b000b4d9e8cb0bba73e445ee-3cc7e650;to-tag=38244~713e2333-4032-45f1-b1f5-e33cf471acec-47601638Contact: <sip:14.48.32.90:5060;transport=tcp>Remote-Party-ID: "Call Manager" ;party=calling;screen=yes;privacy=offMax-Forwards: 70Content-Type: application/sdpContent-Length: 187v=0o=CiscoSystemsCCM-SIP 38249 1 IN IP4 14.48.32.90s=SIP Callc=IN IP4 14.48.32.90t=0 0m=audio 4000 RTP/AVP 0a=label:X-relay-farenda=rtpmap:0 PCMU/8000a=inactivea=mid:1### CUCM receives 200 OK in response to INVITE #1 to recording server01314583.001 |11:18:48.862 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 737 from 14.48.32.170: [5060]: [106328,NET]SIP/2.0 200 OKVia: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK203f3135e715From: <sip:9110011@14.48.32.90;x-nearend;x-refci=47601638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sepb000b4d9e8cb;x-nearendaddr=9110011;x-farendrefci=47601637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=38248~713e2333-4032-45f1-b1f5-e33cf471acec-47601642To: <sip:8675309@14.48.32.170>;tag=1Call-ID: 63fb4180-43d13ed8-203e-5a20300e@14.48.32.90CSeq: 101 INVITEContact: <sip:14.48.32.170:5060;transport=udp>Content-Type: application/sdpContent-Length: 135v=0o=user1 53655765 2353687637 IN IP4 14.48.32.170s=-c=IN IP4 14.48.32.170t=0 0m=audio 6000 RTP/AVP 0a=rtpmap:0 PCMU/8000### CUCM sends re-INVITE to called (recorded) phone for call #1 to invoke the BiB (notice there is no SDP)01314644.001 |11:18:48.864 |AppInfo |SIPtcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106329,NET]INVITE sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK204176d717cdFrom: "Call Manager" ;tag=38246~713e2333-4032-45f1-b1f5-e33cf471acec-47601641To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbb4457e725-6869188aDate: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203d-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesUser-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFYCSeq: 102 INVITEMax-Forwards: 70Expires: 180Allow-Events: presenceCall-Info: ; isVoip; record-invoker=autoMin-SE: 1800Remote-Party-ID: "Call Manager" ;party=calling;screen=yes;privacy=offContact: <sip:14.48.32.90:5060;transport=tcp>Content-Length: 0### Called (recorded) phone returns 200 OK in response to INVITE #2 to invoke BiBNotice the SDP has a=inactive to tear down the media01314645.002 |11:18:48.865 |AppInfo |SIPtcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on port 50841 index 17 with 1236 bytes:[106330,NET]SIP/2.0 200 OKVia: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK20401b237b36From: "Call Manager" ;tag=38249~713e2333-4032-45f1-b1f5-e33cf471acec-47601644To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbc4d5b7fc6-3ab2172fCall-ID: 63fb4180-43d13ed8-203f-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:55 GMTCSSeq: 101 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFORemote-Party-ID: "9110011" <sip:9110011@14.48.32.90>;party=called;id-type=subscriber;privacy=off;screen=yesSupported: 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-8.5.1Allow-Events: kpml, dialogContent-Length: 203Content-Type: application/sdpContent-Disposition: session;handling=optionalv=0o=Cisco-SIPUA 11326 0 IN IP4 14.48.32.17s=SIP Callt=0 0m=audio 19696 RTP/AVP 0 101c=IN IP4 14.48.32.17a=rtpmap:0 PCMU/8000a=rtpmap:101 telephone-event/8000a=fmtp:101 0-15a=inactive### CUCM responds with ACK for 200 OK for INVITE #2 to invoke the BiB01314648.001 |11:18:48.866 |AppInfo |SIPtcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106331,NET]ACK sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK20424175effeFrom: "Call Manager" ;tag=38249~713e2333-4032-45f1-b1f5-e33cf471acec-47601644To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbc4d5b7fc6-3ab2172fDate: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203f-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeq: 101 ACKAllow-Events: presenceContent-Length: 0### BiB places second call to recording destination address (cn is calling party which is the BiB cn="b0028310001" and it is dialing the recordingdestination dd="8675309")Note that the BiB number stayed the same (b0028310001) and so did the

recordingdestination number01314680.003 |11:18:48.867 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]01314680.004 |11:18:48.867 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309] isURI[0]01314680.005 |11:18:48.867 |AppInfo |CMUtility routeCallThroughCTIRD: no matching RemDestDynamic record exists for remdest [8675309]01314680.006 |11:18:48.867 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 867530901314680.007 |11:18:48.867 |AppInfo |DbMobility: getMatchedRemDest: full match case01314680.008 |11:18:48.867 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic record exists for remdest [8675309]01314680.009 |11:18:48.867 |AppInfo |DbMobility: can't find remdest 8675309 in map01314680.010 |11:18:48.867 |AppInfo |Digit analysis: patternUsage=501314680.011 |11:18:48.867 |AppInfo |Digit analysis: match(pi="1", fqc=" ", cn="b0028310001",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")01314680.012 |11:18:48.867 |AppInfo |Digit analysis: analysis results01314680.013 |11:18:48.867 |AppInfo |PretransformCallingPartyNumber=b0028310001|CallingPartyNumber=b0028310001|DialingPartition=|DialingPattern=8675309|FullyQualifiedCalledPartyNumber=8675309|DialingPatternRegularExpression=(8675309)|DialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSdlP rocessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformPos itionalMatchList=8675309|CollectedDigits=8675309 ### CUCM sends INVITE #2 to configured recording server01314731.001 |11:18:48.870 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[106333,NET]INVITE sip:8675309@14.48.32.170:5060 SIP/2.0Via: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK20432a53d34cFrom: <sip:9110011@14.48.32.90;x-farend;x-refci=47601638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sepb000b4d9e8cb;x-nearendaddr=9110011;x-farendrefci=47601637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=38251~713e2333-4032-45f1-b1f5-e33cf471acec-47601645To: <sip:8675309@14.48.32.170>Date: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-2040-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presence, kpmlSupported: X-cisco-srtp-fallbackSupported: GeolocationCall-Info: ;method="NOTIFY";Event=telephone-event;Duration=500"Call-Info: ;x-cisco-video-traffic-class=DESKTOPCisco-Guid: 1677410688-0000065536-0000000002-1512058894Session-Expires: 1800P-Asserted-Identity: <sip:9110011@14.48.32.90>Remote-Party-ID: <sip:9110011@14.48.32.90>;party=calling;screen=yes;privacy=offContact: <sip:9110011@14.48.32.90:5060>;isFocusMax-Forwards: 70Content-Length: 0 ### CUCM receives 200 OK in response to INVITE #2 from configured recording server01314751.001 |11:18:48.871 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 736 from 14.48.32.170:[5060]:[106335,NET]SIP/2.0 200 OKVia: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK20432a53d34cFrom: <sip:9110011@14.48.32.90;x-farend;x-refci=47601638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sepb000b4d9e8cb;x-nearendaddr=9110011;x-farendrefci=47601637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=38251~713e2333-4032-45f1-b1f5-e33cf471acec-47601645To: <sip:8675309@14.48.32.170>;tag=2Call-ID: 63fb4180-43d13ed8-2040-5a20300e@14.48.32.90CSeq: 101 INVITEContact: <sip:14.48.32.170:5060;transport=udp>Content-Type: application/sdpContent-Length: 135v=0o=user1 53655765 2353687637 IN IP4 14.48.32.170s=-c=IN IP4 14.48.32.170t=0 0m=audio 6000 RTP/AVP 0a=rtmap:0 PCMU/8000 ### CUCM sends re-INVITE #2 to called (recorded) phone for second BiB invocation callNotice there is no SDP01314828.001 |11:18:48.875 |AppInfo |SIPtcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106336,NET]INVITE sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK20443475e621From: "Call Manager" ;tag=38249~713e2333-4032-45f1-b1f5-e33cf471acec-47601644To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbc4d5b7fc6-3ab2172fDate: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203f-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesUser-Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFYCSeq: 102 INVITEMax-Forwards: 70Expires: 180Allow-Events: presenceCall-Info: ; isVoip; record-invoker=autoMin-SE: 1800Remote-Party-ID: "Call Manager" ;party=calling;screen=yes;privacy=offContact: <sip:14.48.32.90:5060;transport=tcp>Content-Length: 0 ### Called (recorded) phone returns 200 OK to re-INVITE #101314829.002 |11:18:48.876 |AppInfo |SIPtcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on port 50841 index 17 with 1235 bytes:[106337,NET]SIP/2.0 200 OKVia: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK204176d717cdFrom: "Call Manager" ;tag=38246~713e2333-

4032-45f1-b1f5-e33cf471acec-47601641To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbb4457e725-6869188aCall-ID: 63fb4180-43d13ed8-203d-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:55 GMTCSeg: 102 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFORemote-Party-ID: "9110011" <sip:9110011@14.48.32.90>;party=called;id-type=subscriber;privacy=off;screen=yesSupported: 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-8.5.1Allow-Events: kpml, dialogContent-Length: 202Content-Type: application/sdpContent-Disposition: session;handling=optionalv=0o=Cisco-SIPUA 4077 1 IN IP4 14.48.32.17s=SIP Callt=00m=audio 28512 RTP/AVP 0 101c=IN IP4 14.48.32.17a=rtpmap:0 PCMU/8000a=rtpmap:101 telephone-event/8000a=fmtp:101 0-15a=sendrecv### CUCM sends ACK to called (recorded) phone for re-INVITE #101314873.001 |11:18:48.880 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106338,NET]ACK sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK204521531f4bFrom: "Call Manager" ;tag=38246~713e2333-4032-45f1-b1f5-e33cf471acec-47601641To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbb4457e725-6869188aDate: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203d-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeg: 102 ACKAllow-Events: presenceContent-Type: application/sdpContent-Length: 178v=0o=CiscoSystemsCCM-SIP 38246 3 IN IP4 14.48.32.90s=SIP Callc=IN IP4 14.48.32.170b=TIAS:64000b=AS:64t=0 0m=audio 6000 RTP/AVP 0a=rtpmap:0 PCMU/8000a=recvonly### CUCM sends ACK to configured recording server for INVITE #101314875.001 |11:18:48.880 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170: [5060]: [106339,NET]ACK sip:14.48.32.170:5060;transport=UDP SIP/2.0Via: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK20467ee6be7From: <sip:9110011@14.48.32.90;x-nearend;x-refci=47601638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep000b4d9e8cb;x-nearendaddr=9110011;x-farendrefci=47601637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=38248~713e2333-4032-45f1-b1f5-e33cf471acec-47601642To: <sip:8675309@14.48.32.170>;tag=1Date: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203e-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeg: 101 ACKAllow-Events: presence, kpmlContent-Type: application/sdpContent-Length: 234v=0o=CiscoSystemsCCM-SIP 38248 1 IN IP4 14.48.32.90s=SIP Callc=IN IP4 14.48.32.17b=TIAS:64000b=AS:64t=0 0m=audio 28512 RTP/AVP 0 101a=rtpmap:0 PCMU/8000a=sendonlya=rtpmap:101 telephone-event/8000a=fmtp:101 0-15### Called (recorded) phone returns 200 OK for re-INVITE #201314878.005 |11:18:48.881 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 14.48.32.17 on port 50841 index 17 with 1236 bytes: [106341,NET]SIP/2.0 200 OKVia: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK20443475e621From: "Call Manager" ;tag=38249~713e2333-4032-45f1-b1f5-e33cf471acec-47601644To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbc4d5b7fc6-3ab2172fCall-ID: 63fb4180-43d13ed8-203f-5a20300e@14.48.32.90Date: Tue, 14 Oct 2014 15:18:55 GMTCSeg: 102 INVITEServer: Cisco-CP8841/10.2.1Contact: <sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp>Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE, SUBSCRIBE, INFORemote-Party-ID: "9110011" <sip:9110011@14.48.32.90>;party=called;id-type=subscriber;privacy=off;screen=yesSupported: 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-8.5.1Allow-Events: kpml, dialogContent-Length: 203Content-Type: application/sdpContent-Disposition: session;handling=optionalv=0o=Cisco-SIPUA 11326 1 IN IP4 14.48.32.17s=SIP Callt=00m=audio 19696 RTP/AVP 0 101c=IN IP4 14.48.32.17a=rtpmap:0 PCMU/8000a=rtpmap:101 telephone-event/8000a=fmtp:101 0-15a=sendrecv### CUCM sends ACK to called (recorded) phone for re-INVITE #201314907.001 |11:18:48.883 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 14.48.32.17 on port 50841 index 17 [106342,NET]ACK sip:56ce4d7f-d3a2-40fd-a8b3-3f93c8832b9d@14.48.32.17:50841;transport=tcp SIP/2.0Via: SIP/2.0/TCP 14.48.32.90:5060;branch=z9hG4bK204755ae79c7From: "Call Manager" ;tag=38249~713e2333-4032-45f1-b1f5-e33cf471acec-47601644To: <sip:9110011@14.48.32.90>;tag=b000b4d9e8cb0bbc4d5b7fc6-3ab2172fDate: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-203f-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeg: 102 ACKAllow-Events: presenceContent-Type: application/sdpContent-Length: 178v=0o=CiscoSystemsCCM-SIP 38249 3 IN IP4 14.48.32.90s=SIP Callc=IN IP4 14.48.32.170b=TIAS:64000b=AS:64t=0 0m=audio 6000 RTP/AVP 0a=rtpmap:0 PCMU/8000a=recvonly### CUCM sends ACK to configured recording server for INVITE #201314909.001 |11:18:48.883 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message



to 14.48.32.170:[5060]:[106343,NET]ACK sip:14.48.32.170:5060;transport=UDP SIP/2.0Via: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK204854e1b53fFrom: <sip:9110011@14.48.32.90;x-farend;x-refci=47601638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sepb000b4d9e8cb;x-nearendaddr=9110011;x-farendrefci=47601637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=38251~713e2333-4032-45f1-b1f5-e33cf471acec-47601645To: <sip:8675309@14.48.32.170>;tag=2Date: Tue, 14 Oct 2014 15:18:48 GMTCall-ID: 63fb4180-43d13ed8-2040-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeq: 101 ACKAllow-Events: presence, kpmlContent-Type: application/sdpContent-Length: 234v=0=CiscoSystemsCCM-SIP 38251 1 IN IP4 14.48.32.90s=SIP Callc=IN IP4 14.48.32.17b=TIAS:64000b=AS:64t=0 0m=audio 19696 RTP/AVP 0 101a=rtpmap:0 PCMU/8000a=sendonlya=rtpmap:101 telephone-event/8000a=fmtp:101 0-15

## 故障排除

### 编解码器协商

下面是示例一个呼叫记录失败多数常见的类型-已录制电话和录音服务器之间的编码解码器不匹配：

```
~~~~~Codec Negotiation Failure~~~~~### Calling phone
places call00019629.001 |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=911000100019638.003 |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=200019638.006 |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
results00019638.008 |12:48:34.522 |AppInfo
| |PretransformCallingPartyNumber=9110006|CallingPartyNumber=9110006|DialingPartition=|DialingPat
tern=9110001|FullyQualifiedCalledPartyNumber=9110001|DialingPatternRegularExpression=(9110001)|D
ialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSdlProcessId
=(0,0,0)|PretransformDigitString=9110001|PretransformTagsList=SUBSCRIBER|PretransformPositionalM
atchList=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 phone00019657.003 |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
appearance00019657.005 |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: 200019657.008 |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=000019657.011 |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 hook00019709.001 |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 channel00019773.001 |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 channel00019776.001 |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 channel00019784.002 |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(14.48.32.33). myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(14.48.32.28)### Codec locked due to recording on called (recorded) phone00019785.003 |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 channel00019788.002 |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(14.48.32.28). myIP: IpAddr.type:0 ipv4Addr:0x0e302021(14.48.32.33)### CUCM allocates the BiB on the called (recorded) phone00019830.000 |12:48:36.074 |SdlSig |MrmAllocateUcbResourceReq |waiting |MediaResourceManager(2,100,138,1) |Cc(2,100,220,1) |2,100,14,19.206^14.48.32.33^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=867530900019889.003 |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 = 867530900019889.007 |12:48:36.100 |AppInfo |DbMobility: getMatchedRemDest: full match case00019889.008 |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 map00019889.010 |12:48:36.100 |AppInfo |Digit analysis: patternUsage=500019889.011 |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 results00019889.013 |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 ACK00019912.001 |12:48:36.139 |AppInfo |StationInit: (0000005) OpenReceiveChannelAck Status=0, IpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(14.48.32.28), Port=31678, PartyID=33554433### CUCM sends startMediaTransmission to the called (recorded) phone telling the phone to send RTP to the calling phone (14.48.32.28)00019920.001 |12:48:36.139 |AppInfo |StationD: (0000007) startMediaTransmission conferenceID=49613638 passThruPartyID=33554434 remoteIpAddress=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(14.48.32.28) remotePortNumber=31678 milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(14.48.32.33)### Called (recorded) phone sends CUCM the ORC ACK00019959.001 |12:48:36.145 |AppInfo |StationInit: (0000007) OpenReceiveChannelAck Status=0, IpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(14.48.32.33), Port=28360, PartyID=33554434### CUCM sends startMediaTransmission to the calling phone telling the phone to send RTP to the called phone (14.48.32.33)00019977.001 |12:48:36.146 |AppInfo |StationD: (0000005)

startMediaTransmission conferenceID=49613637 passThruPartyID=33554433  
remoteIpAddress=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(14.48.32.33)  
remotePortNumber=28360 milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k)  
RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(14.48.32.28)### 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  
number00020002.001 |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=867530900020002.003 |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 =  
867530900020002.007 |12:48:36.147 |AppInfo |DbMobility: getMatchedRemDest: full match  
case00020002.008 |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 map00020002.010 |12:48:36.147 |AppInfo |Digit  
analysis: patternUsage=500020002.011 |12:48:36.147 |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")00020002.012 |12:48:36.147 |AppInfo |Digit analysis: analysis  
results00020002.013 |12:48:36.147 |AppInfo  
||PretransformCallingPartyNumber=b00223906001|CallingPartyNumber=b00223906001|DialingPartition=|  
DialingPattern=8675309|FullyQualifiedCalledPartyNumber=8675309|DialingPatternRegularExpression=(  
8675309)|DialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSd  
lProcessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformP  
ositionalMatchList=8675309|CollectedDigits=8675309|UnconsumedDigits=|TagsList=SUBSCRIBER|Positio  
nalMatchList=8675309 ### CUCM sends INVITE #1 to configured recording server  
(14.48.32.170)00020086.001 |12:48:36.156 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP  
UDP message to 14.48.32.170:[5060]:[901,NET]INVITE sip:8675309@14.48.32.170:5060 SIP/2.0Via:  
SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK4f2a857d3dFrom: <sip:9110001@14.48.32.90;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-e33cf471acec-  
49613642To: <sip:8675309@14.48.32.170>Date: Tue, 14 Oct 2014 16:48:36 GMTCall-ID: ef7acf80-  
43d153e4-50-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-  
Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER,  
SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presence, kpmlSupported: X-cisco-  
srtp-fallbackSupported: GeolocationCall-Info: ;method="NOTIFY;Event=telephone-  
event;Duration=500"Cisco-Guid: 4017803136-0000065536-000000001-1512058894Session-Expires:  
1800P-Asserted-Identity: <sip:9110001@14.48.32.90>Remote-Party-ID:  
<sip:9110001@14.48.32.90>;party=calling;screen=yes;privacy=offContact:  
<sip:9110001@14.48.32.90:5060>;isFocusMax-Forwards: 70Content-Length: 0 ### CUCM sends INVITE #2  
to configured recording server (14.48.32.170)00020088.001 |12:48:36.157 |AppInfo  
|//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[902,NET]INVITE  
sip:8675309@14.48.32.170:5060 SIP/2.0Via: SIP/2.0/UDP  
14.48.32.90:5060;branch=z9hG4bK5014378d0bFrom: <sip:9110001@14.48.32.90;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-  
49613645To: <sip:8675309@14.48.32.170>Date: Tue, 14 Oct 2014 16:48:36 GMTCall-ID: ef7acf80-  
43d153e4-51-5a20300e@14.48.32.90Supported: timer,resource-priority,replacesMin-SE: 1800User-  
Agent: Cisco-CUCM10.5Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER,  
SUBSCRIBE, NOTIFYCSeq: 101 INVITEExpires: 180Allow-Events: presence, kpmlSupported: X-cisco-  
srtp-fallbackSupported: GeolocationCall-Info: ;method="NOTIFY;Event=telephone-  
event;Duration=500"Cisco-Guid: 4017803136-0000065536-000000002-1512058894Session-Expires:  
1800P-Asserted-Identity: <sip:9110001@14.48.32.90>Remote-Party-ID:  
<sip:9110001@14.48.32.90>;party=calling;screen=yes;privacy=offContact:  
<sip:9110001@14.48.32.90:5060>;isFocusMax-Forwards: 70Content-Length: 0 ### CUCM receives a 200

OK from recording server for INVITE #100020089.001 |12:48:36.161 |AppInfo  
|//SIP/SIPUdp/wait\_SdldataInd: Incoming SIP UDP message size 731 from  
14.48.32.170:[5060]:[903,NET]SIP/2.0 200 OKVia: SIP/2.0/UDP  
14.48.32.90:5060;branch=z9hG4bK4f2a857d3dFrom: <sip:9110001@14.48.32.90;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-e33cf471acec-  
49613642To: <sip:8675309@14.48.32.170>;tag=1Call-ID: ef7acf80-43d153e4-50-  
5a20300e@14.48.32.90CSeq: 101 INVITEContact: <sip:14.48.32.170:5060;transport=udp>Content-Type:  
application/sdpContent-Length: 135v=0o=user1 53655765 2353687637 IN IP4 14.48.32.170s=-c=IN  
IP4 14.48.32.170t=0 0m=audio 6000 RTP/AVP 0a=rtpmap:0 PCMU/8000 ### CUCM receives a 200 OK from  
recording server for INVITE #200020092.001 |12:48:36.161 |AppInfo  
|//SIP/SIPUdp/wait\_SdldataInd: Incoming SIP UDP message size 730 from  
14.48.32.170:[5060]:[905,NET]SIP/2.0 200 OKVia: SIP/2.0/UDP  
14.48.32.90:5060;branch=z9hG4bK5014378d0bFrom: <sip:9110001@14.48.32.90;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-  
49613645To: <sip:8675309@14.48.32.170>;tag=2Call-ID: ef7acf80-43d153e4-51-  
5a20300e@14.48.32.90CSeq: 101 INVITEContact: <sip:14.48.32.170:5060;transport=udp>Content-Type:  
application/sdpContent-Length: 135v=0o=user1 53655765 2353687637 IN IP4 14.48.32.170s=-c=IN  
IP4 14.48.32.170t=0 0m=audio 6000 RTP/AVP 0a=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=100020160.006 |12:48:36.190 |AppInfo |DET-  
MediaManager-(2)::checkAudioPassThru, param(bPostMTPAllocation=0,chkTrp=1), capCount(1,1),  
mtpPT=1, aPT=200020160.007 |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  
allocate00020160.011 |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 will cause  
this call to fail00020162.003 |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 #1Note the Q.850 cause  
code00020210.001 |12:48:36.216 |AppInfo |//SIP/SIPUdp/wait\_SdldataInd: Outgoing SIP UDP  
message to 14.48.32.170:[5060]:[906,NET]ACK sip:14.48.32.170:5060;transport=UDP SIP/2.0Via:  
SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK51257b2b47From: <sip:9110001@14.48.32.90;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-e33cf471acec-  
49613642To: <sip:8675309@14.48.32.170>;tag=1Date: Tue, 14 Oct 2014 16:48:36 GMTCall-ID:  
ef7acf80-43d153e4-50-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeq: 101  
ACKAllow-Events: presence, kpmlContent-Length: 0  
  
00020211.001 |12:48:36.216 |AppInfo |//SIP/SIPUdp/wait\_SdldataInd: Outgoing SIP UDP message to  
14.48.32.170:[5060]:  
[907,NET]  
BYE sip:14.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 14.48.32.90:5060;branch=z9hG4bK526f3d2afa  
From: <sip:9110001@14.48.32.90;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-e33cf471acec-49613642  
To: <sip:8675309@14.48.32.170>;tag=1  
Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-50-5a20300e@14.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70

P-Asserted-Identity: <sip:9110001@14.48.32.90>

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  
#2Note the Q.850 cuase code in the BYE00020248.001 |12:48:36.218 |AppInfo  
|//SIP/SIPUdp/wait\_Sd1SPISignal: Outgoing SIP UDP message to 14.48.32.170:[5060]:[908,NET]ACK  
sip:14.48.32.170:5060;transport=UDP SIP/2.0Via: SIP/2.0/UDP  
14.48.32.90:5060;branch=z9hG4bK531df920a6From: <sip:9110001@14.48.32.90;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-  
49613645To: <sip:8675309@14.48.32.170>;tag=2Date: Tue, 14 Oct 2014 16:48:36 GMTCall-ID:  
ef7acf80-43d153e4-51-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70CSeq: 101  
ACKAllow-Events: presence, kpmlContent-Length: 0  
00020249.001 |12:48:36.218 |AppInfo |//SIP/SIPUdp/wait\_Sd1SPISignal: Outgoing SIP UDP message to  
14.48.32.170:[5060]:[909,NET]BYE sip:14.48.32.170:5060;transport=UDP SIP/2.0Via: SIP/2.0/UDP  
14.48.32.90:5060;branch=z9hG4bK5462aba807From: <sip:9110001@14.48.32.90;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-  
49613645To: <sip:8675309@14.48.32.170>;tag=2Date: Tue, 14 Oct 2014 16:48:36 GMTCall-ID:  
ef7acf80-43d153e4-51-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards: 70P-Asserted-  
Identity: <sip:9110001@14.48.32.90>CSeq: 102 BYE**Reason: Q.850;cause=47**Content-Length: 0

## 误配置包括CSS和PT问题

下面的命令允许将迅速查看的录音配置的多数与只认识不记录呼叫电话的MAC地址。请用电话的实际MAC地址替换命令'**MAC\_of\_Phone**'的部分正如在下面示例。

这给我们DN (所有，如果有超过一个)我们搜索的MAC的，电话的MAC确认的，围嘴设置，设置，记录类型(请参考值列出从我的实验室的示例)录音配置文件在使用中由电话的保密性，记录的CSS的名称，该录音配置文件的录音目的地，并且分区记录目的地关联与基于MAC我们搜索：

运行SQL挑选n1.dnorpattern， phone\_dn， dev.name作为phone\_mac， 案件dev.tkstatus\_builtinbridge， 当'1'然后'围嘴在'时，当'0'然后'围嘴'其他'NA' END作为is\_bib\_on时， 案件dev.resettoggle， 当't'然后'保密性在'时，当'f'然后'保密性'其他'NA' END作为is\_privacy\_on时， 案件recordynam.tkrecordingflag， 当'0' '禁用的然后记录'，当'1'然后'自动'，当'2'然后'有选择性的'其他'NA' END作为recording\_type， 案件devnumplanmap.tkpreferredmediasource， 当'1' '网关然后更喜欢'，当'2' '然后给首选的打电话'其他'NA' END作为Recording\_Media\_Source， rcrdpro.name作为recording\_profile\_name， css.name如css\_used\_by\_recording\_profile， rcrdpro.recorderdestination如recording\_route\_pattern， rp.name一样required\_partition\_for\_css\_used\_by\_recording\_profile从recordingprofile作为rcrdpro内联callingsearchspace作为css在rcrdpro.fkcallingsearchspace\_callrecording = css.pkid内联numplan作为n在n.dnorpattern = rcrdpro.recorderdestination内联routepartition作为RP在rp.pkid = n.fkroutepartition内联devicenumplanmap作为devnumplanmap在rcrdpro.pkid = devnumplanmap.fkrecordingprofile内联recordingdynamic作为recordynam在devnumplanmap.pkid = recordynam.fkdevicenumplanmap内联设备作为dev在devnumplanmap.fkdevice = dev.pkid内联numplan作为n1在devnumplanmap.fknumplan = n1.pkid css.pkid = rcrdpro.fkcallingsearchspace\_callrecording和dev.name=' MAC\_of\_Phone'

这提供我们关联与在录音配置文件的记录的CSS关联与电话MAC我们搜索分区的列表。

运行SQL挑选css.name作为name\_of\_the\_recording\_css， rp.name作为partitions\_in\_recording\_css， csm.sortorder从callingsearchspace作为css内联callingsearchspace\_member作为csm在csm.fkcallingsearchspace = css.pkid内联routepartition作为RP在csm.fkroutepartition = rp.pkid内联recordingprofile作为rcrdpro在rcrdpro.fkcallingsearchspace\_callrecording = css.pkid内联devicenumplanmap作为

devnumplanmap在rcrdpro.pkid = devnumplanmap.fkrecordingprofile内联设备作为dev在  
devnumplanmap.fkdevice = dev.pkid其中css.pkid = rcrdpro.fkcallingsearchspace\_callrecording和  
dev.name= MAC\_of\_Phone

这是输出的示例从我的实验室的有MAC地址的SEPC80084AA8743一个电话的：

在此命令我们能看见电话只有对此的一个DN哪些是2003年，我们也看到围嘴打开，保密性关闭，记录类型自动，优先源是电话，录音配置文件是测验录音配置文件，录音呼叫搜索空间是INTERNAL\_CSS，已录制呼叫的路由模式是8675309，并且该模式用分区INTERNAL\_PT关联。

```
run sql select n1.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 n1 on
devnumplanmap.fknumplan = n1.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
```

使用此命令输出我们检查所有录音配置文件的记录的CSS的分区用电话关联的利益。我们能看见此  
分区INTERNAL\_PT是其中一个分区关联与呼叫搜索空间INTERNAL\_CSS。这意味着不应该有问题  
用的电话的围嘴能呼叫录音路由模式。

```
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=====
1INTERNAL_CSS Phones_PT 2INTERNAL_CSS EMERGENCY_PT 3INTERNAL_CSS INTERNAL_PT 4INTERNAL_CSS
INFORMACAST_PT 5
```