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Введение

Этот документ описывает основы записи вызовов в Cisco Unified Communications Manager (CUCM), ожидаемом потоке сред, потоках ожидаемого вызова для Протокола SIP и устройств Skinny Client Control Protocol (SCCP) и примера наиболее распространенного типа сбоя настройки записи вызовов.

Предварительные условия

Требования

CUCM интегрировался со сторонним сервером записи.

Используемые компоненты

CUCM, Cisco IP Phone (IP является Протокол Интернета), и сервер записи вызовов.

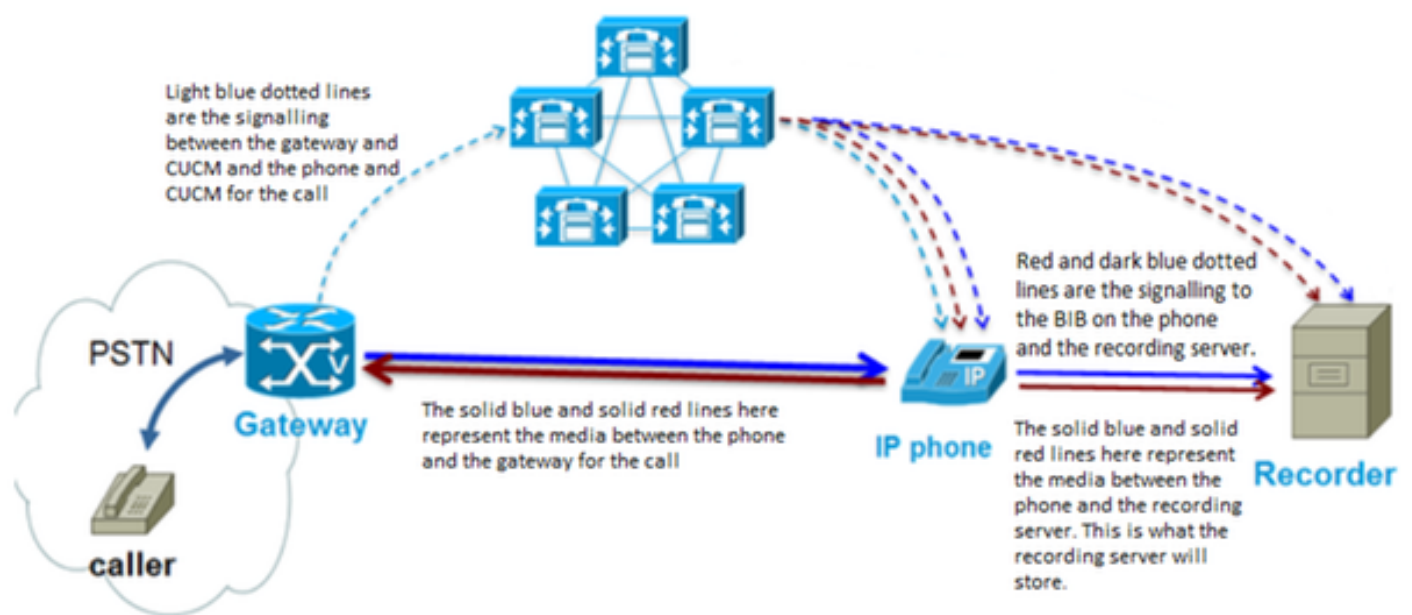
Типы записи вызовов

Автоматический

Ключевые элементы записи автоматического вызова ниже:

- Использование, Созданное в мосте из IP-телефона к? ветвление? аудио назначению записи
- Иницируемый каждый раз IP-телефон заказывает телефонный разговор или принимает вызов
- Требует только магистрали SIP между назначением записи и CUCM. Некоторые поставщики записи требуют CTI (Интеграция компьютеров и телефонии) интеграция
- Не позволяет делать запись телефонов, которые расположены за пределами управляемой сети (должен иметь доступ, чтобы передать RTP непосредственно к записи сервера и быть Cisco IP Phone, способным к выделению Созданного в мосте),

В приведенном ниже рисунке сплошные линии представляют ожидаемый поток сред, и пунктирные линии представляют ожидаемый сигнальный поток:

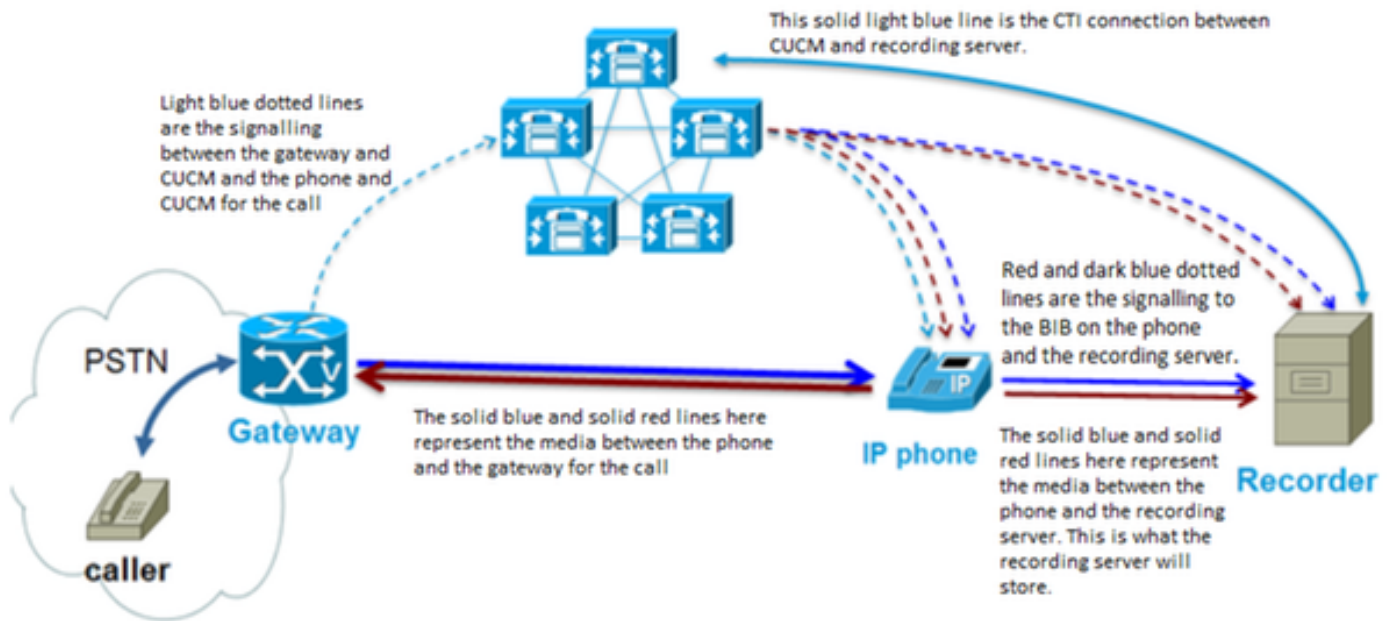


Вызванное приложение

Ключевые элементы вызванной записи вызовов приложения ниже:

- Использование, Созданное в мосте из IP-телефона к? ветвление? аудио назначению записи
- Иницируемый, когда приложение (устройство записи) диктует, что должно иницироваться
- Требует магистрали SIP и интеграции CTI с записью приложения
- У пользователя приложения CTI должен быть доступ к оконечным точкам, которые должны быть зарегистрированы
- Не позволяет делать запись телефонов, которые расположены за пределами управляемой сети (должен иметь доступ для передачи RTP непосредственно к записи сервера),

В приведенном ниже рисунке сплошные линии представляют ожидаемый поток сред, и пунктирные линии представляют ожидаемую сигнализацию flo. Сплошная линия между CUCM и сервером записи обозначает соединение CTI между CUCM и приложением.

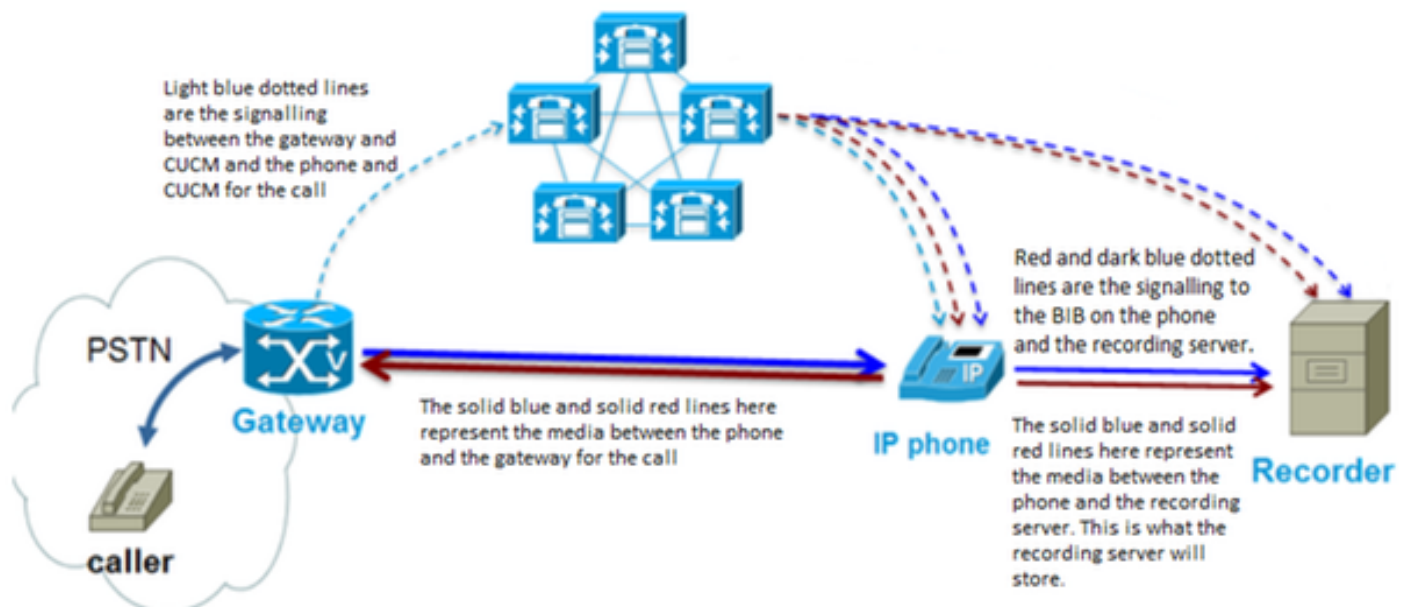


Выборочный

Ключевые элементы записи селекторного вызова ниже:

- Использование, Созданное в мосте из IP-телефона к? ветвление? аудио назначению записи
- Иницируемый каждый раз Пользователь IP-телефона выбирает опцию записи на их IP-телефоне (CUCM 9.x +) или на приложении как в [этом образе](#)
- Как правило, требует только магистрали SIP между CUCM и записью назначения (в зависимости от записи поставщика приложений)
- Не позволяет делать запись телефонов, которые лежат за пределами управляемой сети (должен иметь доступ для передачи RTP непосредственно к записи сервера),

Как вы можете видеть в приведенном ниже рисунке, среды и сигнализирующий путь подобны записи автоматического вызова:

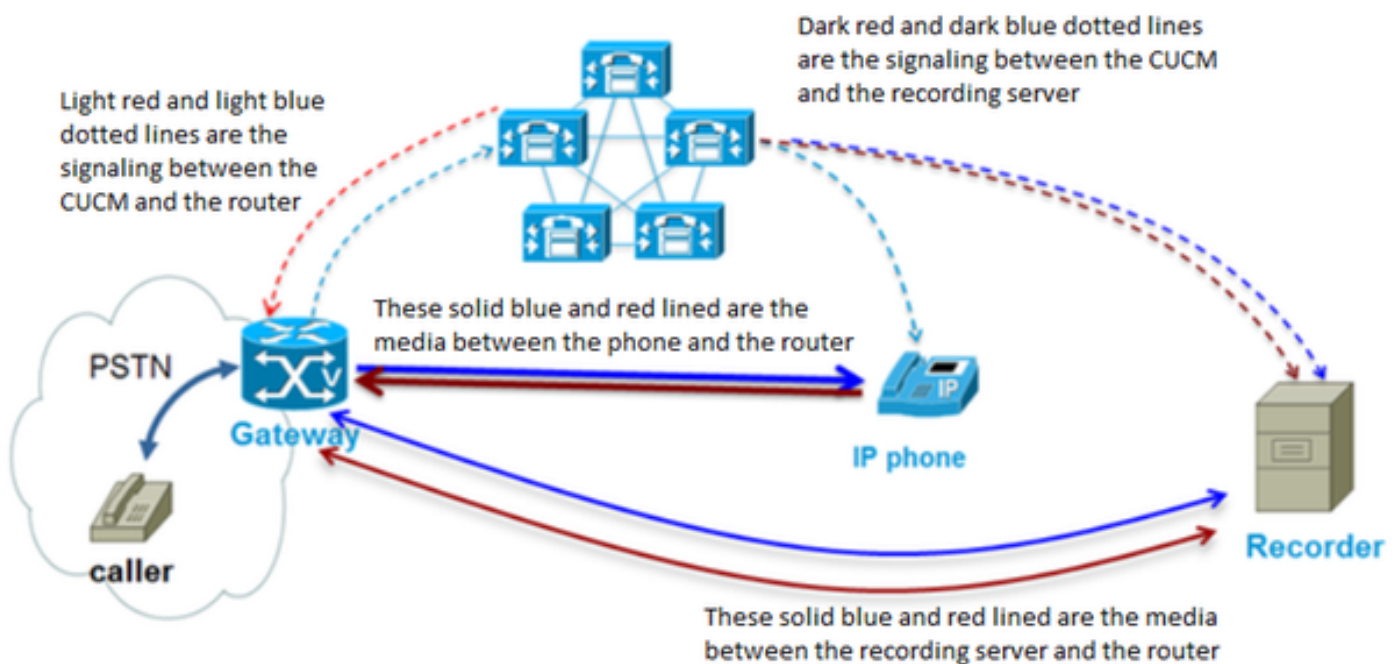


Основанный на шлюзе

Ключевые элементы записи шлюза-based call ниже:

- Голосовой шлюз разветвляет среды к назначению записи
- CUCM регистрируется в шлюзе как приложение
- CUCM использует HTTP, чтобы дать GW команду передавать среды потоком к записи назначения
- CUCM интегрируется с записью назначения через магистраль SIP
- Позволяет делать запись вызовов, которые просто проходят через управляемую сеть (например, мобильным пользователям) или для телефонов, которые не поддерживают ViB

Как вы можете видеть от приведенного ниже рисунка, поток сред очень отличается от других типов записи вызовов:



Конфигурация Записи Автоматического вызова для SIP только Интеграция

В этом разделе описывается установить интеграцию SIP сервера записи.


Создайте магистраль SIP назначению записи

- Под Устройством > Транк, выберите, добавляют новый
- Создайте магистраль SIP со следующими параметрами настройки:

Trunk Configuration



Status

 Status: Ready

Trunk Information

Trunk Type*

Device Protocol*

Trunk Service Type*

Next

- Введите соответствующее Имя устройства, Аппаратный пул, MRGL, Профиль безопасности магистрального SIP-канала и профиль SIP
- Настроенный адрес назначения (DA) будет адресом сервера приложений записи. В примере ниже записи сервер 14.48.32.170

-SIP Information

Destination





Destination Address is an SRV

	Destination Address	Destination Address IPv6	Destination Port
1*	<input type="text" value="14.48.32.170"/>	<input type="text"/>	<input type="text" value="5060"/>


Создайте профиль записи

- Под Устройством> Настройки устройства> Делающий запись Профиля
- Запись адреса назначения (DA) состоит в том, куда будут передаваться вызовы записи

Recording Profile Configuration

 Save
  Delete
  Copy
  Add New

Status

 Status: Ready

Recording Profile Information

Name*

Recording Calling Search Space

Recording Destination Address *

Создайте шаблон маршрута для маршрутизации вызовов записи

- Создайте шаблон маршрута, который совпадает с адресом назначения (DA) записи, настроенным в предыдущем шаге
- Если вы хотите настроить избыточные магистрали SIP, можно указать к списку маршрутов вместо непосредственно в магистрали SIP

Обратите внимание на то, что разделение, назначенное на этот Шаблон маршрута, должно быть привязано к **Пространству поиска вызова Записи**.

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

Назначьте Профиль Записи на Телефонную линию

- По уже созданному телефону с существующим расширением назначьте созданный профиль записи
- Назначьте тип записи вызовов в этом местоположении также
- Данный пример показывает автоматическую запись

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

Установите ВІВ в на и Конфиденциальность к прочь на Странице конфигурации телефона

В то время как на конфигурации устройства страница перешли к названным **Сведениям об устройстве** seciont. Набор, Созданный в Мосту к на и Конфиденциальности к прочь.

Built In Bridge*	On
Privacy*	Off

Проверка

Ниже нормальное поведение в Трассировках CallManager для SCCP и SIP-телефонов, данных вышеупомянутую конфигурацию. В то время как один из телефонов установлен для записи вызовов, эти примеры для телефона, вызывающего другой телефон на том же кластере.

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_Sd1SPISignal: 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: 2881195520-0000065536-0000000011-1512058894Session-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|DialingSd
lProcessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformP
ositionalMatchList=8675309|CollectedDigits=8675309 ### CUCM receives 200 OK in response to INVITE
#103797390.001 |20:21:09.345 |AppInfo |//SIP/SIPUdp/wait_Sd1DataInd: 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_Sd1SPISignal: 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: 2881195520-0000065536-0000000012-1512058894Session-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_Sd1DataInd:
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=rtpmap: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=z9hG4bK2050183495f1From: <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=|DialingPat  
tern=9110011|FullyQualifiedCalledPartyNumber=9110011|DialingPatternRegularExpression=(9110011)|D  
ialingWhere=|PatternType=Enterprise|PotentialMatches=NoPotentialMatchesExist|DialingSdlProcessId  
=(0,0,0)|PretransformDigitString=9110011|PretransformTagsList=SUBSCRIBER|PretransformPositionalM  
atchList=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=20artpmap: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: 70CSeg: 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, NOTIFYCSeg: 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 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: 202Content-Type: application/sdpContent-Disposition: session;handling=optionalv=0o=Cisco-SIPUA 4077 0 IN IP4 14.48.32.17s=SIP Callt=0 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", fqcn="", 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|DialingSdlProcessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformPositionalMatchList=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: 1677410688-0000065536-000000001-1512058894Session-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=rtmpmap: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=rtmpmap: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=rtmpmap:0 PCMU/8000a=rtmpmap: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|DialingSdlProcessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformPositionalMatchList=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: 1677410688-0000065536-000000002-1512058894Session-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=rtpmap: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=0  
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=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: 70CSeq: 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=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=1Date: Tue, 14 Oct 2014 15:18:48  
GMTCall-ID: 63fb4180-43d13ed8-203e-5a20300e@14.48.32.90User-Agent: Cisco-CUCM10.5Max-Forwards:  
70CSeq: 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=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=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: 70CSeq: 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-
e33cf471lacec-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=0o=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
```

## Устранение неполадок

### Согласование кодеков

Ниже пример одного из наиболее распространенного типа сбоя в записи вызовов - несоответствие кодека между зарегистрированным телефоном и сервером записи:

```
~~~~~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|DialingSd  
lProcessId=(0,0,0)|PretransformDigitString=8675309|PretransformTagsList=SUBSCRIBER|PretransformP  
ositionalMatchList=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: 4017803136-0000065536-0000000001-1512058894Session-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: 4017803136-0000065536-0000000002-1512058894Session-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\_SdlSPISignal: 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\_SdlSPISignal: 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\_SdlSPISignal: 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\_SdlSPISignal: 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

## Неверная конфигурация Включая CSS и проблемы РТ

Команды ниже позволяют большинству конфигураций записи быть рассмотренным быстро с только знанием MAC-адреса телефона, который не делает запись вызовов. Просто замените часть *команды 'MAC\_of\_Phone'* с адресом реального MAC телефона как в примерах ниже.

Это дает нам DN (все они, если существуют несколько) для MAC, который мы ищем на, MAC телефона только для подтверждения, значения нагрудника, настройки конфиденциальности, тип записи (сошлитесь на значения, перечисленные в примерах от моей лабораторной работы), профиль записи в использовании телефоном, названием CSS записи, назначения записи для того профиля записи и разделения, что запись назначения привязана к на основе MAC, на котором мы ищем:

```
работайте sql выбирают n1.dnорpattern как phone_dn, dev.name как phone_mac, dev
tkstatus_builitnbridge WHEN '1' CASE ЗАТЕМ 'BiB находится на' WHEN '0' ЗАТЕМ 'BiB, от'
ELSE 'NA', КОНЕЧНЫЙ как is_bib_on, CASE dev.resettoggle WHEN 't' ЗАТЕМ
'Конфиденциальность находится на' WHEN 'f' ЗАТЕМ 'Конфиденциальность, от' ELSE 'NA',
КОНЕЧНЫЙ как is_privacy_on, CASE recordynam.tkrecordingflag WHEN '0' ЗАТЕМ 'Запись
Отключенный' WHEN '1' ЗАТЕМ 'Автоматический' WHEN '2' ЗАТЕМ 'Выборочный' ELSE 'NA',
КОНЕЧНЫЙ как recording_type, CASE devnumplanmap.tkpreferredmediasource WHEN '1'
ЗАТЕМ 'шлюз Предпочтительный' WHEN '2' ЗАТЕМ 'Телефонный Предпочтительный' ELSE
'NA', КОНЕЧНЫЙ как Recording_Media_Source, rcrdpro.name как recording_profile_name,
css.name как css_used_by_recording_profile, rcrdpro.recorderdestination как
recording_route_pattern, rp.name как required_partition_for_css_used_by_recording_profile от
recordingprofile как rcrdpro внутреннее объединение callingsearchspace как css на
rcrdpro.fkcallingsearchspace_callrecording = css.pkid внутреннее объединение numplan как n
```

на n.dnorpattern = rcrdpro.recorderdestination внутреннее объединение routepartition как армированный пластик на rp.pkid = n.fkroutepartition внутреннее объединение devicenumplanmap как devnumplanmap на rcrdpro.pkid = devnumplanmap.fkrecordingprofile внутреннее объединение recordingdynamic как recordynam на devnumplanmap.pkid = recordynam.fkdevicenumplanmap устройство внутреннего объединения как dev на devnumplanmap.fkdevice = dev.pkid внутреннее объединение numplan как n1 на devnumplanmap.fknumplan = n1.pkid, где css.pkid = rcrdpro.fkcallingsearchspace\_callrecording и dev.name = 'MAC\_of\_Phone'

Это дает нам список отделений, которые привязаны к CSS записи на профиле записи, который привязан к MAC телефона, против которого мы ищем.

работайте sql выбирают css.name как name\_of\_the\_recording\_css, rp.name как partitions\_in\_recording\_css, csm.sortorder от callingsearchspace как css внутреннее объединение callingsearchspace\_member как csm на csm.fkcallingsearchspace = css.pkid внутреннее объединение routepartition как армированный пластик на csm.fkroutepartition = rp.pkid внутреннее объединение recordingprofile как rcrdpro на rcrdpro.fkcallingsearchspace\_callrecording = css.pkid внутреннее объединение devicenumplanmap как devnumplanmap на rcrdpro.pkid = devnumplanmap.fkrecordingprofile устройство внутреннего объединения как dev на devnumplanmap.fkdevice = dev.pkid где css.pkid = rcrdpro.fkcallingsearchspace\_callrecording и dev.name = 'MAC\_of\_Phone'

Вот являются примеры выходных данных от моей лабораторной работы для телефона с MAC-адресом SEPC80084AA8743:

В этой команде мы видим, что телефон имеет только один DN на ней, который является 2003, мы также видим, что BiB идет, конфиденциальность выключена, тип записи является автоматическим, предпочтенный источник является телефоном, профиль записи является Тестовым Профилем Записи, пространство поиска вызова записи является INTERNAL\_CSS, шаблон маршрута для зарегистрированных вызовов 8675309, и тот образец привязан к разделению INTERNAL\_PT.

```
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

С выходными данными этой команды мы проверяем все отделения CSS записи профиля записи, привязанного к телефону интереса. Мы видим здесь разделение, **INTERNAL\_PT** является одним из отделений, привязанных к пространству поиска вызова **INTERNAL\_CSS**. Это означает, что не должно быть никаких проблем с ViB телефонной способности вызвать шаблон маршрута записи.

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