

# Configuración y resolución de problemas de grabación de llamadas básica

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## Introducción

Este documento describe los aspectos básicos de la grabación de llamadas en Cisco Unified Communications Manager (CUCM).

## Prerequisites

## Requirements

Cisco recomienda que tenga conocimientos de CUCM integrado con un servidor de grabación de terceros.

## Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- CUCM
- Protocolo Internet de Cisco (IP)
- Servidor de grabación de llamadas telefónicas

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

## Antecedentes

Este documento también describe el flujo de medios esperado, los flujos de llamadas esperados para los dispositivos de protocolo de inicio de sesión (SIP) y protocolo de control de cliente ligero (SCCP), y un ejemplo de un tipo común de error de configuración de grabación de llamadas.

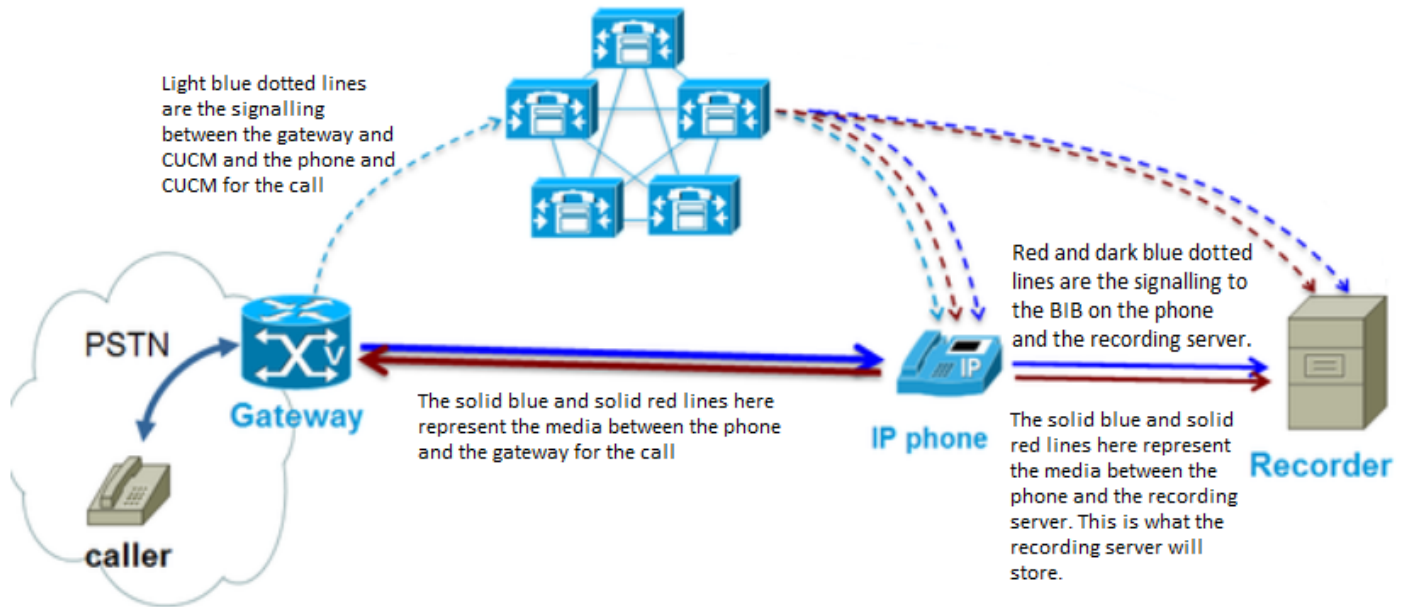
## Tipos de grabación de llamadas

### Automático

Los elementos clave de la grabación automática de llamadas son los siguientes:

- Utiliza el puente integrado (BIB) del teléfono IP para bifurcar el audio al destino de la grabación
- Se inicia cada vez que el teléfono IP realiza o recibe una llamada
- Solo requiere un enlace troncal SIP entre CUCM y el destino de la grabación. Algunos proveedores de grabación requieren la integración de telefonía y ordenador (CTI)
- No permite la grabación de teléfonos ubicados fuera de la red administrada (debe tener acceso para enviar RTP directamente al servidor de grabación y ser un teléfono IP de Cisco capaz de asignar una BIB)

En este diagrama, las líneas sólidas representan el flujo de medios esperado y las líneas discontinuas representan el flujo de señalización esperado:

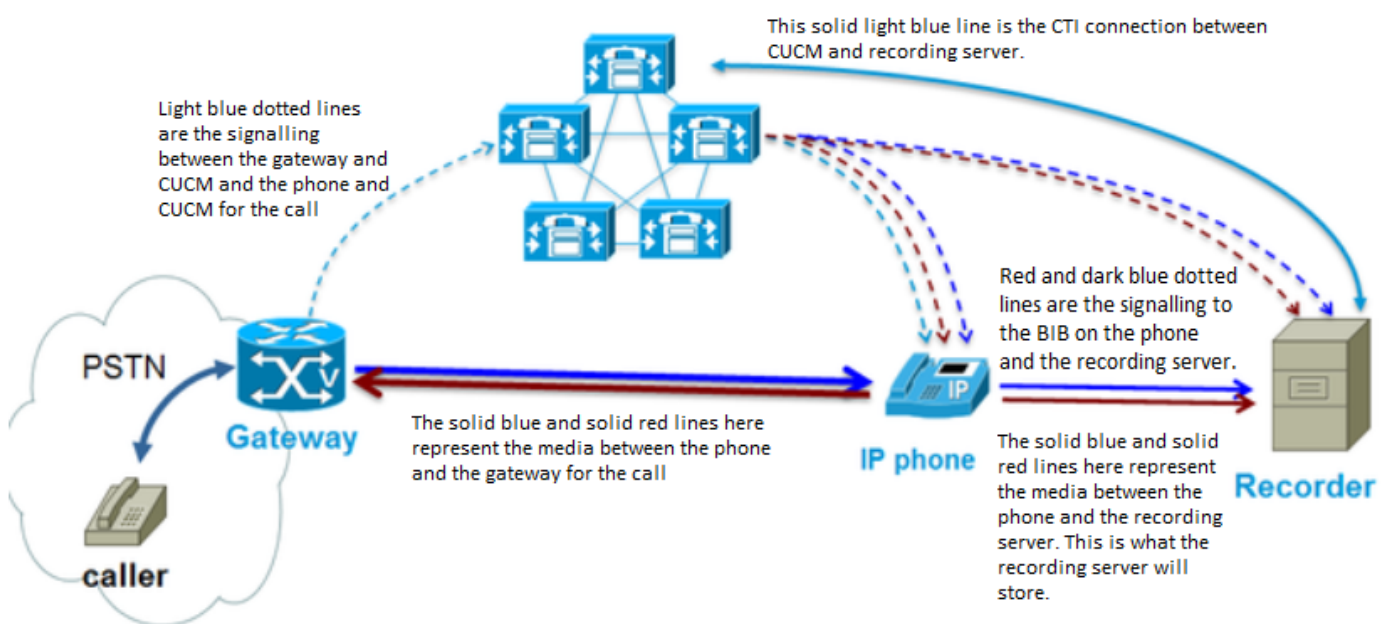


## Aplicación invocada

Los elementos clave de la aplicación que invoca la grabación de llamadas son los siguientes:

- Utiliza el BIB del teléfono IP para bifurcar el audio al destino de la grabación
- Se inicia cuando la aplicación (grabadora) dicta que debe iniciarse
- Requiere troncal SIP y CTI con aplicación de grabación
- El usuario de la aplicación CTI debe tener acceso a los terminales que deben grabarse
- No permite la grabación de teléfonos que se encuentren fuera de la red administrada (debe tener acceso para enviar RTP directamente al servidor de grabación)

En este diagrama, las líneas sólidas representan el flujo de medios esperado y las líneas discontinuas representan el flujo de señalización esperado. La línea continua entre CUCM y el servidor de grabación denota una conexión CTI entre CUCM y la aplicación.

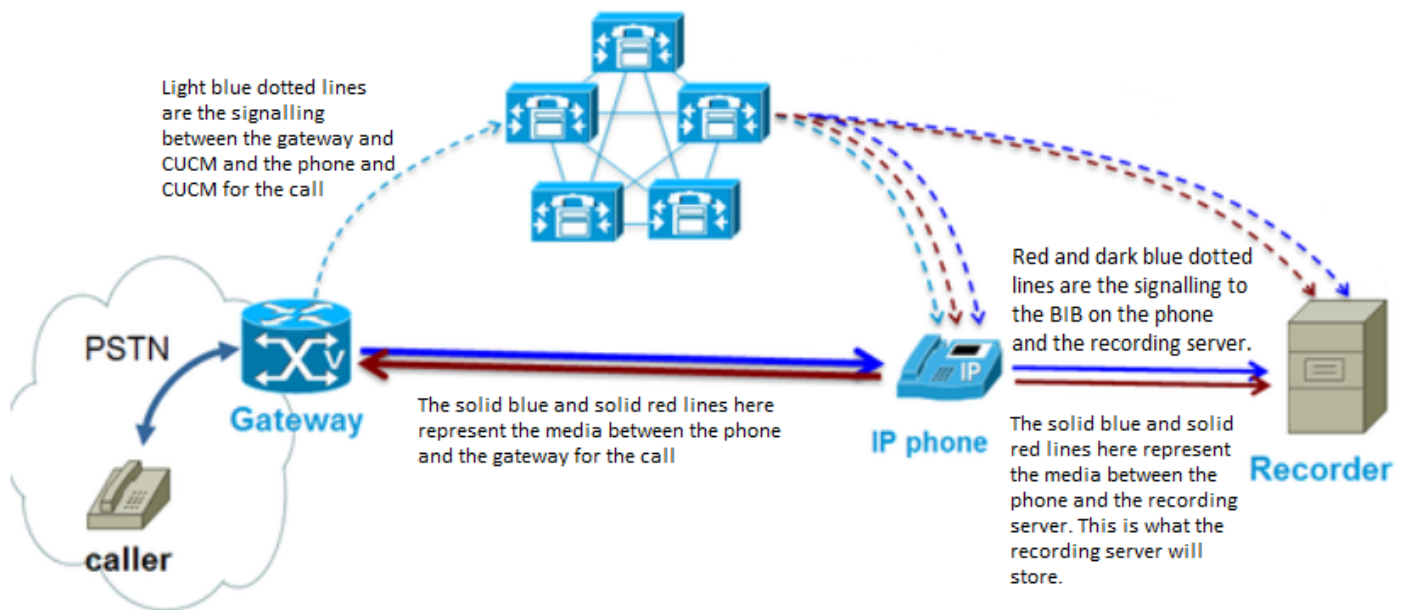


Selectivo

Los elementos clave de la grabación selectiva de llamadas son los siguientes:

- Utiliza el BIB del teléfono IP para bifurcar el audio al destino de la grabación
- Se inicia cada vez que el usuario del teléfono IP selecciona la opción de grabación en su teléfono IP (CUCM 9.x+) o en una aplicación como la de [esta imagen](#)
- Por lo general, solo requiere un enlace troncal SIP entre CUCM y el destino de la grabación (que depende del proveedor de la aplicación de grabación)
- No permite la grabación de teléfonos que se encuentren fuera de la red gestionada (debe tener acceso para enviar RTP directamente al servidor de grabación)

Como puede ver en este diagrama, la ruta de medios y señalización es muy similar a la grabación automática de llamadas:

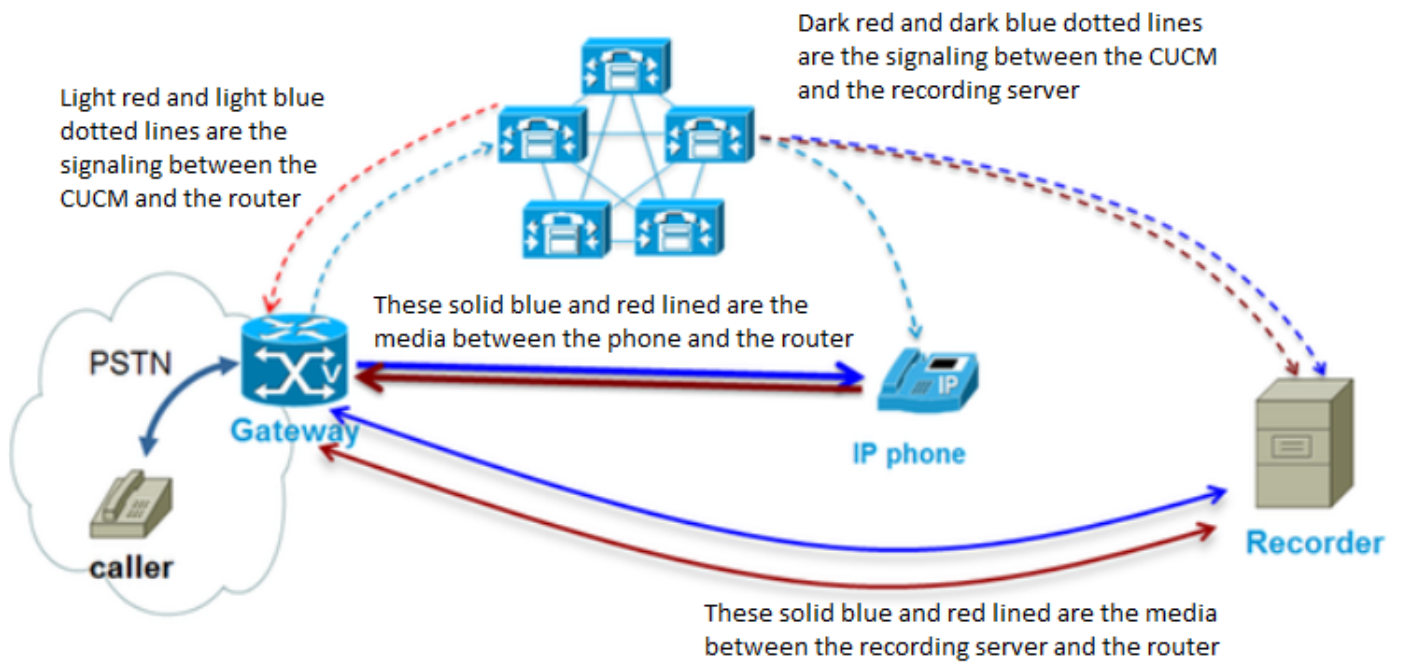


## Basado en gateway

Los elementos clave de la grabación de llamadas basada en gateway son los siguientes:

- La puerta de enlace de voz bifurca los medios hacia el destino de grabación
- CUCM se registra con el gateway como una aplicación
- CUCM utiliza HTTP para indicar a la puerta de enlace (GW) que transmita medios al destino de grabación
- CUCM se integra con el destino de la grabación a través del troncal SIP
- Permite grabar llamadas que simplemente pasan a través de una red gestionada (por ejemplo, a usuarios móviles) o para teléfonos que no admiten la BIB

Como puede ver en el diagrama siguiente, el flujo de medios es muy diferente de los otros tipos de grabación de llamadas:



## Configuración automática de grabación de llamadas para la integración solo de SIP

En esta sección se describe cómo configurar la integración SIP de un servidor de grabación.

### Crear enlace troncal SIP a destino de grabación

- Vaya a **Device > Trunk**, seleccione **Add New**.
- Cree un troncal SIP con los parámetros que se muestran en la imagen.

**Trunk Configuration**

➔ Next

---

**Status**

i Status: Ready

---

**Trunk Information**

Trunk Type\*

Device Protocol\*

Trunk Service Type\*





- Introduzca el nombre de dispositivo, el grupo de dispositivos, MRGL, el perfil de seguridad de enlace troncal SIP y el perfil SIP adecuados

- La dirección de destino configurada es la dirección del servidor de aplicaciones de grabación.

## Crear perfil de grabación


- Vaya a **Device > Device Settings > Recording Profile**
- La dirección de destino de la grabación es donde se envían las llamadas de grabación, como se muestra en la imagen.

**Recording Profile Configuration**

 Save
 Delete
 Copy
 Add New

---

**Status**

 Status: Ready

---

**Recording Profile Information**

Name\*

Recording Calling Search Space

Recording Destination Address \*

---

## Crear patrón de ruta para enrutar llamadas de grabación

- Cree un patrón de ruta que coincida con la dirección de destino de grabación configurada en el paso anterior
- Puede apuntar a una lista de rutas en lugar de directamente al troncal SIP, si desea configurar troncales SIP redundantes

**Nota:** La partición asignada a este patrón de ruta debe estar asociada al espacio RecordingCallingSearch y como se muestra en la imagen.

**Pattern Definition**

Route Pattern*	<input type="text" value="8675309"/>
Route Partition	<input type="text" value="INTERNAL_PT"/>
Description	<input type="text"/>
Numbering Plan	<input type="text" value="-- Not Selected --"/>
Route Filter	<input &gt;")"="" none="" type="text" value("&lt;=""/>
MLPP Precedence*	<input type="text" value="Default"/>
<input type="checkbox"/> Apply Call Blocking Percentage	<input type="text"/>
Resource Priority Namespace Network Domain	<input &gt;")"="" none="" type="text" value("&lt;=""/>
Route Class*	<input type="text" value="Default"/>
Gateway/Route List*	<input type="text" value="RecordingTrunk"/> <a href="#">(Edit)</a>
Route Option	<input checked="" type="radio"/> Route this pattern

## Asignación de un perfil de grabación a una línea telefónica

- En un teléfono ya creado con una extensión existente, asigne el perfil de grabación creado
- Asigne también el tipo de grabación de llamada en esta ubicación
- El ejemplo muestra la grabación automática, como se muestra en la imagen.

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

## Configurar BIB en On y Privacy en Off en la página de configuración del teléfono

En la página de configuración del dispositivo, desplácese a la sección **Información del dispositivo**. Establezca Built In Bridge en **On** y Privacy en **Off**, como se muestra en la imagen.

Built In Bridge*	On
Privacy*	Off

## Verificación

Utilice esta sección para confirmar que su configuración funcione correctamente.

Estos son los comportamientos esperados en los seguimientos de Call Manager para los teléfonos SCCP y SIP con la configuración dada. Estos ejemplos son para un teléfono que llama a otro teléfono del mismo grupo mientras uno de los teléfonos está configurado para la grabación de llamadas.

**Nota:** los registros que se deben recopilar de CUCM son CTIManger, CallManager, Event Viewer App/Sys y, en algunos casos, se pueden necesitar pcaps.

**Nota:** Los registros que se recopilarán de los teléfonos son registros de consola y pcaps. Puede obtener pcaps del servidor de grabación al mismo tiempo que los pcaps del teléfono.

## SCCP

```
~~~~~  
Normal CCM Traces for SCCP phone to SCCP phone with SIP Integrated Call Recording  
~~~~~  
  
### Calling phone places call  
  
03796977.001 |20:21:08.055 |AppInfo |StationInit: (0000109) SoftKeyEvent softKeyEvent=1(Redial)  
lineInstance=0 callReference=0.  
  
### CUCM performs digit analysis against the dialed digits (dd="9110001")
```

```
03797017.001 |20:21:08.057 |AppInfo |Digit Analysis: star_DaReq: daReq.partitionSearchSpace(),
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()
03797017.002 |20:21:08.057 |AppInfo |Digit Analysis: star_DaReq: Matching Legacy Numeric,
digits=9110001
03797017.003 |20:21:08.057 |AppInfo |Digit Analysis: getDaRes data&colon; daRes.ssType=[0]
Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]
03797017.004 |20:21:08.057 |AppInfo |Digit Analysis: getDaRes - Remote Destination [] isURI[1]
03797017.005 |20:21:08.057 |AppInfo |Digit analysis: patternUsage=2
03797017.006 |20:21:08.057 |AppInfo |Digit analysis: match(pi="2", fqcn="9110006",
cn="9110006",plv="5", pss="", TodFilteredPss="", dd="9110001",dac="0")
03797017.007 |20:21:08.057 |AppInfo |Digit analysis: analysis results
03797017.008 |20:21:08.057 |AppInfo ||PretransformCallingPartyNumber=9110006
|CallingPartyNumber=9110006
|DialingPartition=
|DialingPattern=9110001
|FullyQualifiedCalledPartyNumber=9110001
|DialingPatternRegularExpression=(9110001)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=9110001
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=9110001
|CollectedDigits=9110001
```

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

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

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

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



### Called (recorded) phone goes off hook

03797089.001 |20:21:09.335 |AppInfo |StationD: (0000114) restart0\_StationOffHook - INFO:  
CI=38960750 on line=1, SPKMode=0, alwaysPrimeLine=0, alwaysUsePrimeLineForVM=0, fid=0,  
offHookTrigger=0.

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

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

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

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

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

03797164.002 |20:21:09.337 |AppInfo |StationD: (0000109) OpenReceiveChannel  
conferenceID=38960749 passThruPartyID=33554450 millisecondPacketSize=20  
compressionType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierIn=?  
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33). myIP:  
IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)

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

03797168.002 |20:21:09.337 |AppInfo |StationD: (0000114) OpenReceiveChannel  
conferenceID=38960750 passThruPartyID=33554451 millisecondPacketSize=20  
compressionType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierIn=?  
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28). myIP:  
IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

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

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

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

03797269.001 |20:21:09.340 |AppInfo |Digit Analysis: star\_DaReq: daReq.partitionSearchSpace(),  
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()  
03797269.002 |20:21:09.340 |AppInfo |Digit Analysis: star\_DaReq: Matching Legacy Numeric,  
digits=8675309  
03797269.003 |20:21:09.340 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept  
DAMR.ssType=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]  
03797269.004 |20:21:09.340 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309]  
isURI[0]  
03797269.005 |20:21:09.340 |AppInfo |CMUtility routeCallThroughCTIRD: no matching  
RemDestDynamic record exists for remdest [8675309]  
03797269.006 |20:21:09.340 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 8675309  
03797269.007 |20:21:09.340 |AppInfo |DbMobility: getMatchedRemDest: full match case  
03797269.008 |20:21:09.340 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic  
record exists for remdest [8675309]  
03797269.009 |20:21:09.340 |AppInfo |DbMobility: can't find remdest 8675309 in map  
03797269.010 |20:21:09.340 |AppInfo |Digit analysis: patternUsage=5  
03797269.011 |20:21:09.340 |AppInfo |Digit analysis: match(pi="1", fqcn="",

cn="b00223908001",plv="5", pss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
TodFilteredPss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
dd="8675309",dac="0")  
03797269.012 |20:21:09.340 |AppInfo |Digit analysis: analysis results  
03797269.013 |20:21:09.340 |AppInfo ||PretransformCallingPartyNumber=b00223908001  
|CallingPartyNumber=b00223908001  
|DialingPartition=  
|DialingPattern=8675309  
|FullyQualifiedCalledPartyNumber=8675309  
|DialingPatternRegularExpression=(8675309)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=8675309  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=8675309  
|CollectedDigits=8675309

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

03797320.001 |20:21:09.343 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message  
to 10.48.32.170:[5060]:  
[212231,NET]  
INVITE sip:8675309@10.48.32.170:5060 SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204d520fedb3  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-  
nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-  
farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-  
farendaddr=9110006>;tag=73601~713e2333-4032-45f1-blf5-e33cf471acec-38960754  
To: <sip:8675309@10.48.32.170>  
Date: Tue, 30 Sep 2014 00:21:09 GMT  
Call-ID: abbb8e00-4291f775-204c-5a20300e@10.48.32.90  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM10.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"  
Cisco-Guid: 2881195520-0000065536-0000000011-1512058894  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off  
Contact: <sip:9110001@10.48.32.90:5060>;isFocus  
Max-Forwards: 70  
Content-Length: 0

### BiB places second call to recording destination address (cn is calling party which is the  
BiB cn="b00223908001" and it is dialing the recordingdestination dd="8675309")  
Note that the BiB number stayed the same (b00223908001) and so did the recordingdestination  
number

03797367.010 |20:21:09.344 |AppInfo |Digit analysis: patternUsage=5  
03797367.011 |20:21:09.344 |AppInfo |Digit analysis: match(pi="1",fqcn="",  
cn="b00223908001",plv="5", pss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
TodFilteredPss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
dd="8675309",dac="0")  
03797367.012 |20:21:09.344 |AppInfo |Digit analysis: analysis results  
03797367.013 |20:21:09.344 |AppInfo ||PretransformCallingPartyNumber=b00223908001

|CallingPartyNumber=b00223908001  
|DialingPartition=  
|DialingPattern=8675309  
|FullyQualifiedCalledPartyNumber=8675309  
|DialingPatternRegularExpression=(8675309)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=8675309  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=8675309  
|CollectedDigits=8675309

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

03797390.001 |20:21:09.345 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 737 from 10.48.32.170:[5060]:

[212232,NET]

SIP/2.0 200 OK

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

From: <sip:9110001@10.48.32.90;x-nearend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73601~713e2333-4032-45f1-blf5-e33cf47lacec-38960754

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

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

CSeq: 101 INVITE

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

Content-Type: application/sdp

Content-Length: 135

v=0

o=user1 53655765 2353687637 IN IP4 10.48.32.170

s=-

c=IN IP4 10.48.32.170

t=0 0

m=audio 6000 RTP/AVP 0

a=rtpmap:0 PCMU/8000

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

03797445.001 |20:21:09.348 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:

[212233,NET]

INVITE sip:8675309@10.48.32.170:5060 SIP/2.0

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

From: <sip:9110001@10.48.32.90;x-farend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=73602~713e2333-4032-45f1-blf5-e33cf47lacec-38960757

To: <sip:8675309@10.48.32.170>

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

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

Supported: timer,resource-priority,replaces

Min-SE: 1800

User-Agent: Cisco-CUCM10.5

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

CSeq: 101 INVITE

Expires: 180

Allow-Events: presence, kpml

Supported: X-cisco-srtp-fallback

Supported: Geolocation

Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"  
Cisco-Guid: 2881195520-0000065536-0000000012-1512058894  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off  
Contact: <sip:9110001@10.48.32.90:5060>;isFocus  
Max-Forwards: 70  
Content-Length: 0

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

03797498.001 |20:21:09.350 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message  
size 736 from 10.48.32.170:[5060]:  
[212235,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204e754eaeae  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-  
nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-  
farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-  
farendaddr=9110006>;tag=73602~713e2333-4032-45f1-blf5-e33cf471lacec-38960757  
To: <sip:8675309@10.48.32.170>;tag=2  
Call-ID: abbb8e00-4291f775-204d-5a20300e@10.48.32.90  
CSeq: 101 INVITE  
Contact: <sip:10.48.32.170:5060;transport=udp>  
Content-Type: application/sdp  
Content-Length: 135

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

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

03797500.001 |20:21:09.351 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message  
to 10.48.32.170:[5060]:  
[212236,NET]  
ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK204f50bef815  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-  
nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-  
farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-  
farendaddr=9110006>;tag=73601~713e2333-4032-45f1-blf5-e33cf471lacec-38960754  
To: <sip:8675309@10.48.32.170>;tag=1  
Date: Tue, 30 Sep 2014 00:21:09 GMT  
Call-ID: abbb8e00-4291f775-204c-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Content-Type: application/sdp  
Content-Length: 254

v=0  
o=CiscoSystemsCCM-SIP 73601 1 IN IP4 10.48.32.90  
s=SIP Call  
c=IN IP4 10.48.32.33  
b=TIAS:64000  
b=CT:64  
b=AS:64

t=0 0  
m=audio 4000 RTP/AVP 0 101  
a=ptime:20  
a=rtpmap:0 PCMU/8000  
a=sendonly  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

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

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

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

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

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

03797615.001 |20:21:09.354 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message  
to 10.48.32.170:[5060]:  
[212237,NET]  
ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK2050183495f1  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=38960750;x-nearendclusterid=glenscucm10-5;x-  
nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=38960749;x-  
farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-  
farendaddr=9110006>;tag=73602~713e2333-4032-45f1-b1f5-e33cf47lacec-38960757  
To: <sip:8675309@10.48.32.170>;tag=2  
Date: Tue, 30 Sep 2014 00:21:09 GMT  
Call-ID: abbb8e00-4291f775-204d-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Content-Type: application/sdp  
Content-Length: 254

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

### Calling phone sends CUCM the ORC ACK

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

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

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

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

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

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

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

## SIP

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Normal CCM Traces for SIP phone to SIP phone with SIP Integrated Call Recording  
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##### Calling phone places call

04241111.002 |11:27:41.232 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.102 on port 50147 index 32 with 1946 bytes:  
[286938,NET]  
INVITE sip:1001@10.48.38.5;user=phone SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.102:50147;branch=z9hG4bK598c2eb2  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=38ed18552a12296c00ff41e8-5fb7856e  
To: <sip:1001@10.48.38.5>  
Call-ID: 38ed1855-2a120006-78c34baf-1b81d864@10.48.38.102  
Max-Forwards: 70  
Session-ID: 1001532000105000a00038ed18552a12;remote=00000000000000000000000000000000  
Date: Tue, 27 Aug 2019 15:27:42 GMT  
CSeq: 101 INVITE  
User-Agent: Cisco-CP7861/12.1.1  
Contact: <sip:abl7ea6e-8072-927d-aad0-d10273906106@10.48.38.102:50147;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP38ED18552A12"  
Expires: 180  
Accept: application/sdp  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 1" <sip:1000@10.48.38.5>;party=calling;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1

Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 687  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

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

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

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

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

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

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

04241178.001 |11:27:41.242 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52 [286940,NET]  
INVITE sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32e829c48246  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=104952~e650e088-60ba-4195-8387-3dcc0127efdc-19301625  
To: <sip:1001@10.48.38.5>  
Date: Tue, 27 Aug 2019 15:27:41 GMT  
Call-ID: 34241a00-d6514bed-327f-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence  
Call-Info: <urn:x-cisco-remotecallinfo>; security= Unknown; orientation= from; gci= 1-2029; isVoip; call-instance= 1  
Send-Info: conference, x-cisco-conference  
Alert-Info: <file://Bellcore-dr1/>  
Session-ID: 1001532000105000a00038ed18552a12;remote=00000000000000000000000000000000  
Remote-Party-ID: "SJ User 1" <sip:1000@10.48.38.5;x-cisco-callback-number=1000>;party=calling;screen=yes;privacy=off  
Contact: <sip:1000@10.48.38.5:5060;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP38ED18552A12"  
Max-Forwards: 69  
Content-Length: 0

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

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

v=0  
o=Cisco-SIPUA 899 0 IN IP4 10.48.38.107  
s=SIP Call  
b=AS:4064  
t=0 0



m=audio 20394 RTP/AVP 114 9 113 115 0 8 116 18 101  
c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:114 opus/48000/2  
a=fmtp:114 maxplaybackrate=16000;sprop-  
maxcapture=16000;maxaveragebitrate=64000;stereo=0;sprop-stereo=0;usedtx=0  
a=rtpmap:9 G722/8000  
a=rtpmap:113 AMR-WB/16000  
a=fmtp:113 octet-align=0;mode-change-capability=2  
a=rtpmap:115 AMR-WB/16000  
a=fmtp:115 octet-align=1;mode-change-capability=2  
a=rtpmap:0 PCMU/8000  
a=rtpmap:8 PCMA/8000  
a=rtpmap:116 iLBC/8000  
a=fmtp:116 mode=20  
a=rtpmap:18 G729/8000  
a=fmtp:18 annexb=yes  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrec

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

01314344.001 |11:18:48.652 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.32.17 on port 50841 index 17 [106320,NET]

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

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

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

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

04241368.001 |11:27:43.624 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.102 on port 50147 index 32  
[286949,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.102:50147;branch=z9hG4bK598c2eb2  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=38ed18552a12296c00ff41e8-5fb7856e  
To: <sip:1001@10.48.38.5>;tag=104951~e650e088-60ba-4195-8387-3dcc0127efdc-19301624  
Date: Tue, 27 Aug 2019 15:27:41 GMT  
Call-ID: 38ed1855-2a120006-78c34baf-1b81d864@10.48.38.102  
CSeq: 101 INVITE  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
Allow-Events: presence  
Supported: replaces  
Server: Cisco-CUCM11.5  
Call-Info: <urn:x-cisco-remotec:callinfo>; security= NotAuthenticated; orientation= to; gci= 1-2029; isVoip; call-instance= 1  
Send-Info: conference, x-cisco-conference  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;screen=yes;privacy=off  
Session-ID: 4313758700105000a0006c416a369525;remote=1001532000105000a00038ed18552a12  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5;user=phone>;party=x-cisco-original-called;privacy=off  
Contact:  
<sip:1001@10.48.38.5:5060;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Content-Type: application/sdp  
Content-Length: 223

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

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

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

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

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

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

04241418.006 |11:27:43.631 |AppInfo |Digit analysis: match(pi="1", fqcn="", cn="", plv="5",  
pss="", TodFilteredPss="", dd="b0018615001", dac="0")  
04241418.007 |11:27:43.631 |AppInfo |Digit analysis: analysis results  
04241418.008 |11:27:43.631 |AppInfo ||PretransformCallingPartyNumber=  
|CallingPartyNumber=  
|DialingPartition=

|DialingPattern=b0018615001  
|FullyQualifiedCalledPartyNumber=b0018615001  
|DialingPatternRegularExpression=(b0018615001)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(1,86,15)  
|PretransformDigitString=b0018615001  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=b0018615001  
|CollectedDigits=b0018615001

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

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

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

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

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

04241455.002 |11:27:43.697 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.102 on port 50147 index 32 with 706 bytes:  
[286951,NET]  
ACK sip:1001@10.48.38.5:5060;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.102:50147;branch=z9hG4bK688db3c1  
From: "SJ User 1" <sip:1000@10.48.38.5>;tag=38ed18552a12296c00ff41e8-5fb7856e

To: <sip:1001@10.48.38.5>;tag=104951~e650e088-60ba-4195-8387-3dcc0127efdc-19301624  
Call-ID: 38ed1855-2a120006-78c34baf-1b81d864@10.48.38.102  
Max-Forwards: 70  
Session-ID: 1001532000105000a00038ed18552a12;remote=4313758700105000a0006c416a369525  
Date: Tue, 27 Aug 2019 15:27:45 GMT  
CSeq: 101 ACK  
User-Agent: Cisco-CP7861/12.1.1  
Remote-Party-ID: "SJ User 1" <sip:1000@10.48.38.5>;party=calling;id-  
type=subscriber;privacy=off;screen=yes  
Content-Length: 0  
Recv-Info: conference  
Recv-Info: x-cisco-conference

##### Called (recorded) phone returns 200 OK in response to the invite with "record-  
invoker=auto"  
Notice the SDP has a=inactive - even though there is no media established on the Bib yet.

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

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

##### CUCM responds to called (recorded) phone with ACK  
04241469.001 |11:27:43.901 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
10.48.38.107 on port 51902 index 52 [286954,NET] ACK sip:91a43f66-ca58-9cd3-b0e5-  
588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0 Via: SIP/2.0/TCP  
10.48.38.5:5060;branch=z9hG4bK32eb34decbb69 From: "Call Manager"  
<sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628 To:  
<sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85 Date: Tue, 27 Aug 2019 15:27:43 GMT

Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5 User-Agent: Cisco-CUCM11.5 Max-Forwards: 70  
CSeq: 101 ACK Allow-Events: presence Content-Length: 0

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

04241501.011 |11:27:43.905 |AppInfo |Digit analysis: match(pi="1", fqcn="",  
cn="b0018615001", plv="5", pss="EMERGENCY\_PT:INTERNAL\_PT",  
TodFilteredPss="EMERGENCY\_PT:INTERNAL\_PT", dd="7878", dac="0")  
04241501.012 |11:27:43.905 |AppInfo |Digit analysis: analysis results  
04241501.013 |11:27:43.905 |AppInfo ||PretransformCallingPartyNumber=b0018615001  
|CallingPartyNumber=b0018615001  
|DialingPartition=INTERNAL\_PT  
|DialingPattern=7878  
|FullyQualifiedCalledPartyNumber=7878  
|DialingPatternRegularExpression=(7878)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=7878  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=7878  
|CollectedDigits=7878

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

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

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

04241555.001 |11:27:43.908 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
10.48.38.30 on port 5060 index 50  
[286955,NET]  
INVITE sip:7878@10.48.38.30:5060 SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ecc2c802c  
From: "SJ User 2" <sip:1001@10.48.38.5;x-nearend;x-refci=19301625;x-  
nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-  
farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-  
farendaddr=1000>;tag=104958-e650e088-60ba-4195-8387-3dcc0127efdc-19301629  
To: <sip:7878@10.48.38.30>  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3281-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: <sip:10.48.38.5:5060>;method="NOTIFY;Event=telephone-event;Duration=500"  
Call-Info: <urn:x-cisco-remotecallinfo>;x-cisco-video-traffic-class=DESKTOP  
Session-ID: 0848153900105000a0006c416a369525;remote=00000000000000000000000000000000  
Cisco-Guid: 0894781184-0000065536-0000000022-0086388750  
Session-Expires: 1800  
P-Asserted-Identity: "SJ User 2" <sip:1001@10.48.38.5>  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=calling;screen=yes;privacy=off  
Contact:  
<sip:1001@10.48.38.5:5060;transport=tcp>;isFocus;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Max-Forwards: 70  
Content-Length: 0

##### CUCM sends INVITE #2 to called (recorded) phone with record-invoker=auto in Call-Info field and original Call-ID in Join field

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

04241590.001 |11:27:43.910 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52

[286956,NET]

INVITE sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ed62f39668  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631  
To: <sip:1001@10.48.38.5>  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM11.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence  
Call-Info: <urn:x-cisco-remotecallinfo>; isVoip; record-invoker=auto  
Join: 34241a00-d6514bed-327f-526300e@10.48.38.5;from-tag=6c416a369525006f33cf6f38-43c38ad2;to-tag=104952~e650e088-60ba-4195-8387-3dcc0127efdc-19301625  
Session-ID: 00000000000000000000000000000000;remote=00000000000000000000000000000000  
Remote-Party-ID: "Call Manager" <sip:10.48.38.5>;party=calling;screen=yes;privacy=off  
Contact: <sip:10.48.38.5:5060;transport=tcp>  
Max-Forwards: 70  
Content-Type: application/sdp  
Content-Length: 186

v=0

o=CiscoSystemsCCM-SIP 104959 1 IN IP4 10.48.38.5

s=SIP Call

c=IN IP4 10.48.38.5

t=0 0

m=audio 4000 RTP/AVP 0

a=label:X-relay-farend

a=rtpmap:0 PCMU/8000

a=inactive

a=mid:1

##### Called (recorded) phone returns 200 OK in response to INVITE #2 to invoke BiB  
Notice the SDP has a=inactive - even though there is no media established on the Bib yet.

04241614.002 |11:27:44.197 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from

10.48.38.107 on port 51902 index 52 with 1434 bytes:  
[286959,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ed62f39668  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007145d433c8-062b13d7  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
Session-ID: 56a8a95e00105000a0006c416a369525;remote=00000000000000000000000000000000  
Date: Tue, 27 Aug 2019 15:27:42 GMT  
CSeq: 101 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 219  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

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

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

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

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

04241651.011 |11:27:44.201 |AppInfo |Digit analysis: match(pi="1", fqcn="", cn="b0018615001", plv="5", pss="EMERGENCY\_PT:INTERNAL\_PT", TodFilteredPss="EMERGENCY\_PT:INTERNAL\_PT", dd="7878", dac="0")  
04241651.012 |11:27:44.202 |AppInfo |Digit analysis: analysis results  
04241651.013 |11:27:44.202 |AppInfo ||PretransformCallingPartyNumber=b0018615001

|CallingPartyNumber=b0018615001  
|DialingPartition=INTERNAL\_PT  
|DialingPattern=7878  
|FullyQualifiedCalledPartyNumber=7878  
|DialingPatternRegularExpression=(7878)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=7878  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=7878  
|CollectedDigits=7878

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

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

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

04241723.002 |11:27:44.324 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.30 on port 5060 index 50 with 1205 bytes:  
[286963,NET]  
SIP/2.0 200 Ok  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ef2867938b  
To: <sip:7878@10.48.38.30>;tag=ds1ald776c  
From: "SJ User 2" <sip:1001@10.48.38.5;x-farend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104961~e650e088-60ba-4195-8387-3dcc0127efdc-19301632  
Call-ID: 35eddd80-d6514bf0-3283-526300e@10.48.38.5



CSeq: 101 INVITE  
Content-Length: 475  
Contact: <sip:7878@10.48.38.30:5060;transport=TCP>  
Content-Type: application/sdp  
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE  
Supported: X-cisco-srtp-fallback  
Server: MediaSense/11.x

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

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

04241743.002 |11:27:44.326 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.30 on port 5060 index 50 with 1205 bytes: [286964,NET]

SIP/2.0 200 Ok  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32ecc2c802c  
To: <sip:7878@10.48.38.30>;tag=ds2c967644  
From: "SJ User 2" <sip:1001@10.48.38.5;x-nearend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104958~e650e088-60ba-4195-8387-3dcc0127efdc-19301629  
Call-ID: 35554700-d6514bef-3281-526300e@10.48.38.5  
CSeq: 101 INVITE  
Content-Length: 475  
Contact: <sip:7878@10.48.38.30:5060;transport=TCP>  
Content-Type: application/sdp  
Allow: INVITE, BYE, CANCEL, ACK, NOTIFY, INFO, UPDATE  
Supported: X-cisco-srtp-fallback  
Server: MediaSense/11.x

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

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



CSeq: 102 INVITE  
Server: Cisco-CP7841/12.1.1  
Contact: <sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp>;+u.sip!devicename.ccm.cisco.com="SEP6C416A369525"  
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO  
Remote-Party-ID: "SJ User 2" <sip:1001@10.48.38.5>;party=called;id-type=subscriber;privacy=off;screen=yes  
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1  
Allow-Events: kpml,dialog  
Recv-Info: conference  
Recv-Info: x-cisco-conference  
Content-Length: 219  
Content-Type: application/sdp  
Content-Disposition: session;handling=optional

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

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

04241885.002 |11:27:44.550 |AppInfo |SIPtcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.48.38.107 on port 51902 index 52 with 1433 bytes:

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

v=0  
o=Cisco-SIPUA 2684 1 IN IP4 10.48.38.107  
s=SIP Call  
t=0 0  
m=audio 26396 RTP/AVP 0 101

c=IN IP4 10.48.38.107  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrecv

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

04241903.001 |11:27:44.552 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52  
[286971,NET]  
ACK sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f252b587f6  
From: "Call Manager" <sip:10.48.38.5>;tag=104959~e650e088-60ba-4195-8387-3dcc0127efdc-19301631  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007145d433c8-062b13d7  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35554700-d6514bef-3282-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 102 ACK  
Allow-Events: presence  
Session-ID: 00000000000000000000000000000000;remote=56a8a95e00105000a0006c416a369525  
Content-Type: application/sdp  
Content-Length: 192

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

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

04241917.001 |11:27:44.555 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.30 on port 5060 index 50  
[286972,NET]  
ACK sip:7878@10.48.38.30:5060;transport=TCP SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f373e69393  
From: "SJ User 2" <sip:1001@10.48.38.5;x-farend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104961~e650e088-60ba-4195-8387-3dcc0127efdc-19301632  
To: <sip:7878@10.48.38.30>;tag=ds1ald776c  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35eddd80-d6514bf0-3283-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Session-ID: 56a8a95e00105000a0006c416a369525;remote=c83405810147c69016c38634ab104961  
Content-Type: application/sdp  
Content-Length: 235

v=0  
o=CiscoSystemsCCM-SIP 104961 1 IN IP4 10.48.38.5  
s=SIP Call

c=IN IP4 10.48.38.107  
b=TIAS:64000  
b=AS:64  
t=0 0  
m=audio 17904 RTP/AVP 0 101  
a=rtpmap:0 PCMU/8000  
a=sendonly  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

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

04241947.001 |11:27:44.559 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.107 on port 51902 index 52  
[286973,NET]  
ACK sip:91a43f66-ca58-9cd3-b0e5-588aa61a72bc@10.48.38.107:51902;transport=tcp SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f45d25b711  
From: "Call Manager" <sip:10.48.38.5>;tag=104956~e650e088-60ba-4195-8387-3dcc0127efdc-19301628  
To: <sip:1001@10.48.38.5>;tag=6c416a369525007019bf48f9-5901eb85  
Date: Tue, 27 Aug 2019 15:27:44 GMT  
Call-ID: 35554700-d6514bef-3280-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 102 ACK  
Allow-Events: presence  
Session-ID: 00000000000000000000000000000000;remote=0848153900105000a0006c416a369525  
Content-Type: application/sdp  
Content-Length: 192

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

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

04241948.001 |11:27:44.559 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.48.38.30 on port 5060 index 50  
[286974,NET]  
ACK sip:7878@10.48.38.30:5060;transport=TCP SIP/2.0  
Via: SIP/2.0/TCP 10.48.38.5:5060;branch=z9hG4bK32f573871bbb  
From: "SJ User 2" <sip:1001@10.48.38.5;x-nearend;x-refci=19301625;x-nearendclusterid=StandAloneCluster;x-nearenddevice=SEP6C416A369525;x-nearendaddr=1001;x-farendrefci=19301624;x-farendclusterid=StandAloneCluster;x-farenddevice=SEP38ED18552A12;x-farendaddr=1000>;tag=104958~e650e088-60ba-4195-8387-3dcc0127efdc-19301629  
To: <sip:7878@10.48.38.30>;tag=ds2c967644  
Date: Tue, 27 Aug 2019 15:27:43 GMT  
Call-ID: 35554700-d6514bef-3281-526300e@10.48.38.5  
User-Agent: Cisco-CUCM11.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Session-ID: 0848153900105000a0006c416a369525;remote=c83405810147c69016c38634ab104958  
Content-Type: application/sdp  
Content-Length: 235

```
v=0
o=CiscoSystemsCCM-SIP 104958 1 IN IP4 10.48.38.5
s=SIP Call
c=IN IP4 10.48.38.107
b=TIAS:64000
b=AS:64
t=0 0
m=audio 26396 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

## Troubleshoot

En esta sección se brinda información que puede utilizar para resolver problemas en su configuración.

### Negociación Codec

Este es un ejemplo de uno de los tipos más comunes de fallas en la grabación de llamadas - discordancia de códec entre el teléfono grabado y el servidor de grabación:

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

### Calling phone places call

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

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

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

|PretransformDigitString=9110001  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=9110001  
|CollectedDigits=9110001

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

00019640.001 |12:48:34.522 |AppInfo |Digit analysis: wait\_DmPidRes- Partition=[]  
Pattern=[9110001] Where=[],cmDeviceType=[UserDevice], OutsideDialtone =[0], DeviceOverride=[0],  
PID=LineControl(2,100,174,7),CI=[49613637],Sender=Cdcc(2,100,219,1)

### CUCM extends the call to the called phone

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

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

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

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

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

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

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

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

00019784.002 |12:48:36.062 |AppInfo |StationD: (0000005) OpenReceiveChannel  
conferenceID=49613637 passThruPartyID=33554433 millisecondPacketSize=20

compressionType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierIn=?  
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33). myIP:  
IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)

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

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

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

00019788.002 |12:48:36.062 |AppInfo |StationD: (0000007) OpenReceiveChannel  
conferenceID=49613638 passThruPartyID=33554434 millisecondPacketSize=20  
compressionType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierIn=?  
sourceIpAddr=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28). myIP:  
IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

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

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

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

00019889.001 |12:48:36.100 |AppInfo |Digit Analysis: star\_DaReq: daReq.partitionSearchSpace(),  
filteredPartitionSearchSpaceString(), partitionSearchSpaceString()  
00019889.002 |12:48:36.100 |AppInfo |Digit Analysis: star\_DaReq: Matching Legacy Numeric,  
digits=8675309  
00019889.003 |12:48:36.100 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept  
DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0]  
00019889.004 |12:48:36.100 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309]  
isURI[0]  
00019889.005 |12:48:36.100 |AppInfo |CMUtility routeCallThroughCTIRD: no matching  
RemDestDynamic record exists for remdest [8675309]  
00019889.006 |12:48:36.100 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 8675309  
00019889.007 |12:48:36.100 |AppInfo |DbMobility: getMatchedRemDest: full match case  
00019889.008 |12:48:36.100 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic  
record exists for remdest [8675309]  
00019889.009 |12:48:36.100 |AppInfo |DbMobility: can't find remdest 8675309 in map  
00019889.010 |12:48:36.100 |AppInfo |Digit analysis: patternUsage=5  
00019889.011 |12:48:36.100 |AppInfo |Digit analysis: match(pi="1", fqcn="",  
cn="b00223906001",plv="5", pss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
TodFilteredPss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT",  
dd="8675309",dac="1")  
00019889.012 |12:48:36.100 |AppInfo |Digit analysis: analysis results  
00019889.013 |12:48:36.100 |AppInfo ||PretransformCallingPartyNumber=b00223906001  
|CallingPartyNumber=b00223906001  
|DialingPartition=  
|DialingPattern=8675309  
|FullyQualifiedCalledPartyNumber=8675309  
|DialingPatternRegularExpression=(8675309)  
|DialingWhere=  
|PatternType=Enterprise  
|PotentialMatches=NoPotentialMatchesExist  
|DialingSdlProcessId=(0,0,0)  
|PretransformDigitString=8675309  
|PretransformTagsList=SUBSCRIBER  
|PretransformPositionalMatchList=8675309



|CollectedDigits=8675309

### Calling phone sends CUCM the ORC ACK

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

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

00019920.001 |12:48:36.139 |AppInfo |StationD: (0000007) startMediaTransmission conferenceID=49613638 passThruPartyID=33554434 remoteIpAddress=IpAddr.type:0 ipAddr:0x0e30201c000000000000000000000000(10.48.32.28) remotePortNumber=31678 milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e302021(10.48.32.33)

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

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

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

00019977.001 |12:48:36.146 |AppInfo |StationD: (0000005) startMediaTransmission conferenceID=49613637 passThruPartyID=33554433 remoteIpAddress=IpAddr.type:0 ipAddr:0x0e302021000000000000000000000000(10.48.32.33) remotePortNumber=28360 milliSecondPacketSize=20 compressType=4(Media\_Payload\_G711Ulaw64k) RFC2833PayloadType=0 qualifierOut=?. myIP: IpAddr.type:0 ipv4Addr:0x0e30201c(10.48.32.28)

### BiB places second call to recording destination address (cn is calling number which is the BiB cn="b00223906001" and it is dialing the recordingdestination dd="8675309")  
Note that the BiB number stayed the same (b00223906001) and so did the recordingdestination number 00020002.001 |12:48:36.147 |AppInfo |Digit Analysis: star\_DaReq: daReq.partitionSearchSpace(), filteredPartitionSearchSpaceString(), partitionSearchSpaceString()  
00020002.002 |12:48:36.147 |AppInfo |Digit Analysis: star\_DaReq: Matching Legacy Numeric, digits=8675309 00020002.003 |12:48:36.147 |AppInfo |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept DAMR.sstype=[0], TPcount=[0], DAMR.NotifyCount=[0], DaRes.NotifyCount=[0] 00020002.004 |12:48:36.147 |AppInfo |Digit Analysis: getDaRes - Remote Destination [8675309] isURI[0] 00020002.005 |12:48:36.147 |AppInfo |CMUtility routeCallThroughCTIRD: no matching RemDestDynamic record exists for remdest [8675309] 00020002.006 |12:48:36.147 |AppInfo |DbMobility: getMatchedRemDest starts: cnumber = 8675309 00020002.007 |12:48:36.147 |AppInfo |DbMobility: getMatchedRemDest: full match case 00020002.008 |12:48:36.147 |AppInfo |DbMobility SelectByDestination: no matching RemDestDynamic record exists for remdest [8675309] 00020002.009 |12:48:36.147 |AppInfo |DbMobility: can't find remdest 8675309 in map 00020002.010 |12:48:36.147 |AppInfo |Digit analysis: patternUsage=5 00020002.011 |12:48:36.147 |AppInfo |Digit analysis: match(pi="1", fqc="", cn="b00223906001",plv="5", pss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT", TodFilteredPss="E911\_PT:Phones\_PT:EMERGENCY\_PT:INTERNAL\_PT:INFORMACAST\_PT", dd="8675309",dac="1") 00020002.012 |12:48:36.147 |AppInfo |Digit analysis: analysis results 00020002.013 |12:48:36.147 |AppInfo ||PretransformCallingPartyNumber=b00223906001 |CallingPartyNumber=b00223906001 |DialingPartition= |DialingPattern=8675309 |FullyQualifiedCalledPartyNumber=8675309 |DialingPatternRegularExpression=(8675309) |DialingWhere= |PatternType=Enterprise |PotentialMatches=NoPotentialMatchesExist |DialingSdlProcessId=(0,0,0) |PretransformDigitString=8675309 |PretransformTagsList=SUBSCRIBER |PretransformPositionalMatchList=8675309 |CollectedDigits=8675309 |UnconsumedDigits= |TagsList=SUBSCRIBER |PositionalMatchList=8675309

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

00020086.001 |12:48:36.156 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[901,NET]  
INVITE sip:8675309@10.48.32.170:5060 SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK4f2a857d3d  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-b1f5-e33cf47lacec-49613642  
To: <sip:8675309@10.48.32.170>  
Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM10.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"  
Cisco-Guid: 4017803136-0000065536-0000000001-1512058894  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off  
Contact: <sip:9110001@10.48.32.90:5060>;isFocus  
Max-Forwards: 70  
Content-Length: 0

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

00020088.001 |12:48:36.157 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[902,NET]  
INVITE sip:8675309@10.48.32.170:5060 SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK5014378d0b  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf47lacec-49613645  
To: <sip:8675309@10.48.32.170>  
Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-51-5a20300e@10.48.32.90  
Supported: timer,resource-priority,replaces  
Min-SE: 1800  
User-Agent: Cisco-CUCM10.5  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
CSeq: 101 INVITE  
Expires: 180  
Allow-Events: presence, kpml  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Call-Info: ;method="NOTIFY;Event=telephone-event;Duration=500"  
Cisco-Guid: 4017803136-0000065536-0000000002-1512058894  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
Remote-Party-ID: <sip:9110001@10.48.32.90>;party=calling;screen=yes;privacy=off  
Contact: <sip:9110001@10.48.32.90:5060>;isFocus  
Max-Forwards: 70  
Content-Length: 0

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

00020089.001 |12:48:36.161 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 731 from 10.48.32.170:[5060]:  
[903,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK4f2a857d3d  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-b1f5-e33cf47lacec-49613642  
To: <sip:8675309@10.48.32.170>;tag=1  
Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90  
CSeq: 101 INVITE  
Contact: <sip:10.48.32.170:5060;transport=udp>  
Content-Type: application/sdp  
Content-Length: 135

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

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

00020092.001 |12:48:36.161 |AppInfo |//SIP/SIPUdp/wait\_SdlDataInd: Incoming SIP UDP message size 730 from 10.48.32.170:[5060]:  
[905,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK5014378d0b  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf47lacec-49613645  
To: <sip:8675309@10.48.32.170>;tag=2  
Call-ID: ef7acf80-43d153e4-51-5a20300e@10.48.32.90  
CSeq: 101 INVITE  
Contact: <sip:10.48.32.170:5060;transport=udp>  
Content-Type: application/sdp  
Content-Length: 135

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

### Region information for connecting audio for recording call, both appear to support G.711. Note that the bandwidth capabilities printed is kbps=8 meaning the region relationship between the two regions is limited to codecs using 8kbps or less. 00020160.005 |12:48:36.190 |AppInfo |DET-RegionsServer::matchCapabilities-- savedOption=3, PREF\_NONE, regionA=(null) regionB=(null) latentCaps(A=0, B=0) kbps=8, capACount=1, capBCount=1 00020160.006 |12:48:36.190 |AppInfo |DET-MediaManager-(2)::checkAudioPassThru, param(bPostMTPAllocation=0,chkTrp=1), capCount(1,1), mtpPT=1, aPT=2 00020160.007 |12:48:36.190 |AppInfo |DET-MediaManager-(2)::preCheckCapabilities, **region1=Default, region2=RecordingTrunk, Pty1** capCount=1 (Cap,ptime)=(**4,20**), **Pty2** capCount=1 (Cap,ptime)=(**4,20**) 00020160.008 |12:48:36.190 |AppInfo |DET-RegionsServer::matchCapabilities-- savedOption=0, PREF\_NONE, regionA=(null) regionB=(null) latentCaps(A=0, B=0) **kbps=8**, capACount=1, capBCount=1

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

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

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

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

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

00020210.001 |12:48:36.216 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[906,NET]  
ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK51257b2b47  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-blf5-e33cf471lacec-49613642  
To: <sip:8675309@10.48.32.170>;tag=1  
Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Content-Length: 0

00020211.001 |12:48:36.216 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[907,NET]  
BYE sip:10.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK526f3d2afa  
From: <sip:9110001@10.48.32.90;x-nearend;x-refci=49613638;x-nearendclusterid=GlensCUCM10-5;x-nearenddevice=SEP001795BDD16B;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=GlensCUCM10-5;x-farenddevice=SEP0018195AA209;x-farendaddr=9110006>;tag=351~713e2333-4032-45f1-blf5-e33cf471lacec-49613642  
To: <sip:8675309@10.48.32.170>;tag=1  
Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-50-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
P-Asserted-Identity: <sip:9110001@10.48.32.90>  
CSeq: 102 BYE  
**Reason: Q.850;cause=47**  
Content-Length: 0

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

00020248.001 |12:48:36.218 |AppInfo |//SIP/SIPUdp/wait\_SdlSPISignal: Outgoing SIP UDP message to 10.48.32.170:[5060]:  
[908,NET]  
ACK sip:10.48.32.170:5060;transport=UDP SIP/2.0  
Via: SIP/2.0/UDP 10.48.32.90:5060;branch=z9hG4bK531df920a6  
From: <sip:9110001@10.48.32.90;x-farend;x-refci=49613638;x-nearendclusterid=glenscucm10-5;x-nearenddevice=sep001795bdd16b;x-nearendaddr=9110001;x-farendrefci=49613637;x-farendclusterid=glenscucm10-5;x-farenddevice=sep0018195aa209;x-

farendaddr=9110006>;tag=352~713e2333-4032-45f1-b1f5-e33cf471acec-49613645  
To: <sip:8675309@10.48.32.170>;tag=2  
Date: Tue, 14 Oct 2014 16:48:36 GMT  
Call-ID: ef7acf80-43d153e4-51-5a20300e@10.48.32.90  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence, kpml  
Content-Length: 0

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

## Error de configuración que incluye problemas de CSS y PT

Los comandos aquí permiten que la mayoría de las configuraciones de grabación se revisen rápidamente con solo la dirección MAC conocida de un teléfono que no está grabando llamadas. Simplemente reemplace la parte del comando **MAC\_of\_Phone** con la dirección MAC real del teléfono, como en los ejemplos que se ven aquí.

Esto le da el DN (todos ellos si hay más de uno) para el MAC que busca, el MAC del teléfono solo para la confirmación, la configuración BIB, la configuración de privacidad, el tipo de grabación (referencia a los valores enumerados en los ejemplos del laboratorio), el perfil de grabación en uso por el teléfono, el nombre de la grabación Call Search Spaces (CSS), el destino de grabación para ese perfil de grabación y la partición con la que está asociado el destino de grabación en función del MAC que busque:

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

Esto le da la lista de particiones que están asociadas con el CSS de grabación en el perfil de grabación que está asociado con el MAC del teléfono con el que busca.

```
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 callingsearchspace_member as csm on  
csm.fkcallingsearchspace = css.pkid inner join routepartition as rp on csm.fkroutepartition =
```

```
rp.pkid inner join recordingprofile as rcrdpro on rcrdpro.fkcallingsearchspace_callrecording =
css.pkid inner join devicenumplanmap as devnumplanmap on rcrdpro.pkid =
devnumplanmap.fkrecordingprofile inner join device as dev on devnumplanmap.fkdevice = dev.pkid
where css.pkid = rcrdpro.fkcallingsearchspace_callrecording and dev.name='MAC_of_Phone'
```

A continuación se muestran ejemplos de la salida del laboratorio para un teléfono con dirección MAC **SEPC80084AA8743**:

En este comando, puede ver que el teléfono tiene un solo DN que es 2003, también vemos que la BIB está activada, la privacidad está desactivada, el tipo de grabación es automática, el origen preferido es el teléfono, el perfil de grabación es **Test Recording Profile**, el espacio de búsqueda de llamadas de grabación es **INTERNAL\_CSS**, el patrón de ruta para las llamadas grabadas es **8675309** y ese patrón está asociado con la partición **INTERNAL\_PT**.

```
run sql select nl.dnorpattern as phone_dn, dev.name as phone_mac, CASE
dev.tkstatus_builtinbridge WHEN '1' THEN 'BiB is on' WHEN '0' THEN 'BiB is off' ELSE 'NA' END as
is_bib_on, CASE dev.resettoggle WHEN 't' THEN 'Privacy is on' WHEN 'f' THEN 'Privacy is off'
ELSE 'NA' END as is_privacy_on, CASE recordynam.tkrecordingflag WHEN '0' THEN 'Recording
Disabled' WHEN '1' THEN 'Automatic' WHEN '2' THEN 'Selective' ELSE 'NA' END as recording_type,
CASE devnumplanmap.tkpreferredmediasource WHEN '1' THEN 'Gateway Preferred' WHEN '2' THEN 'Phone
Preferred' ELSE 'NA' END as Recording_Media_Source, rcrdpro.name as recording_profile_name,
css.name as css_used_by_recording_profile, rcrdpro.recorderdestination as
recording_route_pattern, rp.name as required_partition_for_css_used_by_recording_profile from
recordingprofile as rcrdpro inner join callingsearchspace as css on
rcrdpro.fkcallingsearchspace_callrecording = css.pkid inner join numplan as n on n.dnorpattern =
rcrdpro.recorderdestination inner join routepartition as rp on rp.pkid = n.fkroutepartition
inner join devicenumplanmap as devnumplanmap on rcrdpro.pkid = devnumplanmap.fkrecordingprofile
inner join recordingdynamic as recordynam on devnumplanmap.pkid = recordynam.fkdevicenumplanmap
inner join device as dev on devnumplanmap.fkdevice = dev.pkid inner join numplan as nl on
devnumplanmap.fknumplan = nl.pkid where css.pkid = rcrdpro.fkcallingsearchspace_callrecording
and dev.name='SEPC80084AA8743'
phone_dn phone_mac is_bib_on is_privacy_on recording_type recording_media_source
recording_profile_name css_used_by_recording_profile recording_route_pattern
required_partition_for_css_used_by_recording_profile
=====
=====
=====
2003 SEPC80084AA8743 BiB is on Privacy is off Automatic Phone Preferred Test Recording Profile
INTERNAL_CSS 8675309 INTERNAL_PT
```

Con la salida de este comando, puede verificar todas las particiones del CSS de grabación y del perfil de grabación asociado con el teléfono de interés. Aquí puede ver que la partición **INTERNAL\_PT** es una de las particiones asociadas con el espacio de búsqueda de llamada **INTERNAL\_CSS**. Esto significa que no debe haber problemas con la BIB del teléfono que puede llamar al patrón de ruta de grabación.

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

## Información Relacionada

- [Cisco Collaboration System 11.x Solution Reference Network Designs \(SRND\)](#)

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