

# 便携代理程序的CUCM网络基础的记录

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## 简介

本文描述网络基础的记录的(NBR)不同的方案，并且是排除故障。

## 先决条件

### 要求

Cisco 建议您了解以下主题：

- Cisco Unified Communications Manager (CUCM)版本10.0(1)或以上
- 基于电话的记录体系结构
- 网络基础的记录体系结构

### 使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco呼叫管理器版本10.5
- Customer Voice Portal (CVP)版本10.5
- Cisco Unified Contact Center Express (UCCE) 10.5(2)
- 网关3925E 15.3(3)M

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

## 背景信息

网络基础的记录自CUCM是可用的，发布10.0(1)并且允许您使用网关记录呼叫。

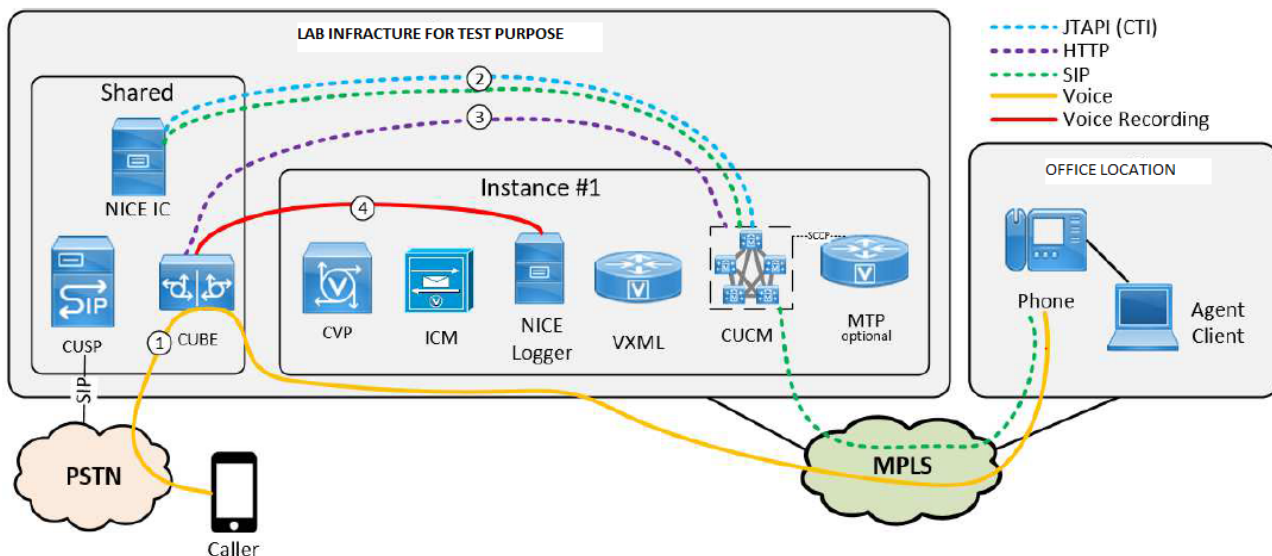
不管设备，功能准许记录呼叫，位置，或者地理例如呼叫对移动和家庭办公室电话延伸了离网。它自动地选择根据呼叫流和呼叫参与者的正确的媒体来源。

了解那是重要的：

- SIP信号通知是从求立方的CUCM和从CUCM到记录服务器。
- 没有在记录服务器和多维数据集之间的直接SIP信令。
- 多维数据集对分叉负责RTP流对记录服务器。

- 在CUCM的已录制终端在网桥(围嘴)不需要支持构件。

CUCM使用HTTP启动呼叫记录请求到在多维数据集的Cisco Unified通信(UC)服务API。Cisco Unified通信(UC)服务API为在IOS网关的不同的服务提供一个统一的网站服务接口。那些服务之一是允许应用程序对监督程序调用和分叉在实时传输协议(RTP)和安全的RTP呼叫的触发器媒体的延长的媒体分叉(XMF)提供商。



## 便携代理程序如何工作

1. 快速通信的管理器的呼叫人A (CME)拨打B，指向网关(GW)。GW对Customer Voice Portal (CVP)的拨号对端点。
2. CVP发送路由请求到智能联络管理器(ICM)，并且ICM返回便携代理程序标签，是本地CTI端口 (LCP端口)拨叫号码(DN)。
3. CVP发送邀请对CUCM。当LCP端口敲响时，JTAPI网关(JGW)提示CUCM到从远程CTI端口 (RCP) DN的呼叫代理电话。
4. 一旦代理程序答案，代理程序行程连接对音乐(MoH)。
5. JGW指示CUCM应答该的呼入呼叫在LCP端口的环。
6. 一旦LCP行程连接，JGW指示CUCM检索代理程序行程。
7. JGW传递从用户行程的实时传输协议(RTP) IP地址/端口详细资料到代理程序行程反之亦然。
8. CUCM桥接两行程并且建立代理程序和用户之间的RTP路径。

## 记录如何在便携代理程序的情况下工作

- 在便携代理程序的情况下，记录在LCP端口或RCP端口可以被启用。
- 一旦呼叫在LCP连接或RCP和记录是启用的，CUCM发送2邀请到近端和远端装置的记录的服务器。

- 一旦发信号为近端设备完成，并且远端装置SDL HTTP请求被发送到网关提示它到开始录音。

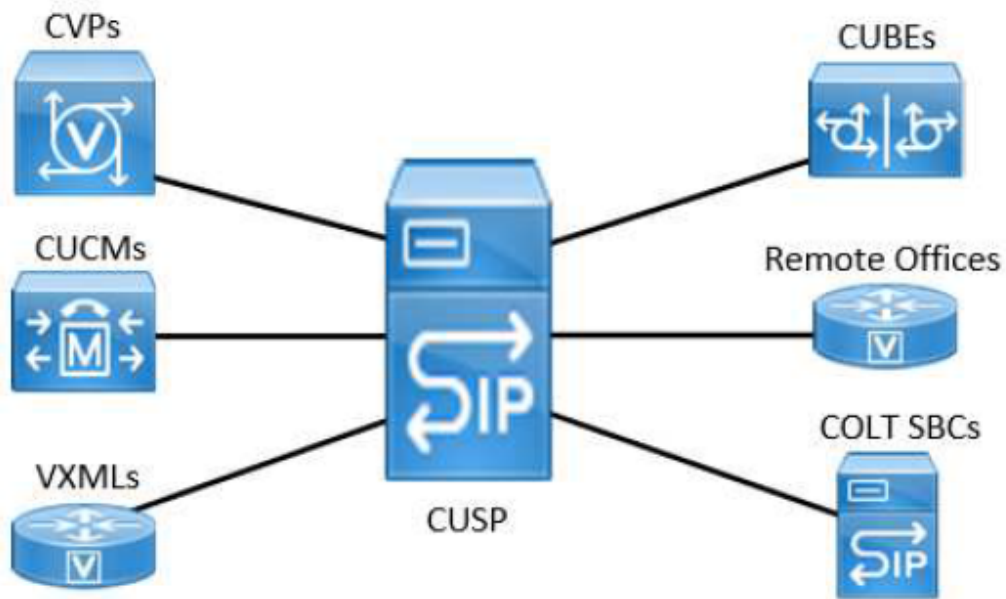
**Note:**可以有CUCM没有一个直接SIP Trunk用网关或与CVP的方案

**Note:**例如，CUCM能有与控制所有通信流的代理服务器(尖顶)的一个SIP Trunk

**Note:**如果记录在CTI端口允许，并且呼叫在该端口登陆，记录将工作。

**Note:**在便携代理程序的情况下，CTI端口实现发信号然后是出于RTP流。它是之间RTP将流的端点在。但是LCP和RCP端口从未出去信令。他们的Ci`s从未被毁坏直到呼叫的结尾。这是原因记录是成功的在LCP或RCP端口，即使RTP不流经他们

## 与尖顶(代理服务器)的UCCE配置



当UCCE配置有CVP和尖顶有所谓的全面的型号的，没有SIP Trunk在CUCM和多维数据集之间。多维数据集和CUCM之间的所有通信通过单个SIP Trunk去尖顶。

CUCM需要方式从哪个多维数据集知道呼叫来，因此在哪个知道发送记录请求。这通过送回请求达到到使用呼叫流入的SIP Trunk的目的地IP。然而，如果CUCM送回API请求到尖顶什么都不会发生。在此限制附近要工作在与尖顶的环境里，以下CUCM配置需要实现：

- 创建假的SIP Trunk对每个多维数据集。这建立中继不会使用路由所有呼叫!
- 使用呼叫INFO头，重新列级在尖顶SIP Trunk的呼入呼叫对正确的假的多维数据集Trunk。

**Trunk Specific Configuration**  
 Reroute Incoming Request to new Trunk based on\*

**Note:**此设置不影响任何呼叫处理决策-所有呼叫处理和呼叫服务等级(COS)决策将完成，好象呼叫仍然在尖顶SIP Trunk，并且SIP信息不会传送到最近被匹配的Trunk的目的地。

**Note:**在流入的INVITE的x ciscoorigIP值必须匹配目的IP地址一个假的Trunk。

**Note:**要有x ciscoorigIP头的一正确值，在产生的多维数据集必须正确地设置它。设置值可以达到通过添加在多维数据集的头，而且通过添加它在CVP。在呼叫INFO头的UCCE直接已经代理程序脚本用途。所以，与必需的x ciscoorigIP的秒钟呼叫INFO头在直接代理程序脚本的呼叫INFO头以后将被添加。试验证明CUCM将执行必需的重新分类，当x ciscoorigIP在SIP的第二个呼叫INFO头包含邀请时。

## 配置

关键配置为与尖顶的UCCE配置指向：

### 创建记录员的SIP Trunk设备

要设置记录员作为SIP Trunk设备，一个统一的CM管理员创建从设备页的一个SIP Trunk设备，并且在目的地址字段输入设备名和记录员的IP地址。

### 创建呼叫记录配置文件

要设置代理程序线路外观呼叫记录的，应该创建一个或更多呼叫记录配置文件。记录配置文件是为线路外观然后选择。要创建记录配置文件，一个统一的CM管理员打开setting页的设备并且选择呼叫记录配置文件。在记录目的地址字段，管理员输入DN或记录员的URL。在记录呼叫搜索空间字段，管理员进入为记录员配置的SIP Trunk的分区。

### 设置假的SIP Trunk对每个多维数据集

对于需要分叉呼叫到记录服务器的每个网关必须配置在CUCM的一个专用的假的Trunk。切记此Trunk没有使用任何实际SIP信令，并且不影响任何呼叫决策。配置的重要事情是：

- 此Trunk连接到一个记录启用网关。
- 目的地IP必须是多维数据集在其XMF配置配置监听的相同的

### 记录员的提供路由模式

要设置记录员的路由模式，管理员打开路由模式配置页并且输入根据记录员DN的路由模式。管理员为记录员选择SIP Trunk设备，然后保存路由模式。如果提供记录员地址，因为SIP URL和URL的RHS不属于统一的CM簇，应该配置SIP路由模式。模式字段应该是域或记录员(RHS零件的记录员URL)和SIP Trunk字段的IP地址应该是记录员的SIP Trunk。

### 提供记录呼叫通知语音选项

要设置记录的通知语音的簇宽服务参数，管理员打开统一的CM管理的服务参数页并且找出作用记录通知语音的条目对被观察的目标。管理员进入是或否。管理员然后找出作用记录通知语音被观察的已连接目标的条目。管理员进入是或否。

Recording Tone*	Disabled
Recording Tone Local Volume*	100
Recording Tone Remote Volume*	50
Recording Tone Duration	

<b>Recording Tone Local Volume: *</b>	<p>This can be used to configure the loudness setting of the recording tone that the local party hears. This loudness setting applies regardless of the actual device used for hearing (handset, speakerphone, headset). The loudness setting should be in the range of 0% to 100%, with 0% being no tone and 100% being at the same level as the current volume setting. The default value is 100%.</p> <p>This is a required field.</p> <p>Default: 100</p> <p>Minimum: 0</p> <p>Maximum: 100</p>
<b>Recording Tone Remote Volume: *</b>	<p>This can be used to configure the loudness setting of the recording tone that the remote party hears. The loudness setting should be in the range of 0% to 100%, with 0% being less than -66dBm and 100% being -4dBm. The default value is -10dBm or 50%.</p> <p>This is a required field.</p> <p>Default: 100</p> <p>Minimum: 0</p> <p>Maximum: 100</p>

US: Tone=Enabled; Local Volume = 0 ; Remote Volume= 1

#### Softphone (SIP&SCCP, requires CUCM 11.5)

Recording Tone Local Volume*	100
Recording Tone Remote Volume*	100

#### Service Parameter

Clusterwide Parameters (Feature - Call Recording)	
<a href="#">Play Recording Notification Tone To Observed Target</a> *	False
<a href="#">Play Recording Notification Tone To Observed Connected Parties</a> *	False
Clusterwide Parameters (Feature - Monitoring)	
<a href="#">Play Monitoring Notification Tone To Observed Target</a> *	False
<a href="#">Play Monitoring Notification Tone To Observed Connected Parties</a> *	False



### Clusterwide Parameters (Feature - Call Recording)

**Play Recording Notification Tone To Observed Target: \*** This parameter specifies whether to enable the Recording Tone will be played to the Observed Target. Valid values specify False (no tones) or True (tone is played). The system uses this parameter during the initiation of Recording Feature to determine whether the tone will be played. Changes in this parameter will not affect currently registered devices. To get changes of this parameter to currently registered devices, the devices have to be restarted.

This is a required field.

Default: False

**Play Recording Notification Tone To Observed Connected Parties: \*** This parameter specifies whether to enable the Recording Tone will be played to the Observed Connected Parties. Valid values specify False (no tones) or True (tone is played). The system uses this parameter during the initiation of Recording Feature to determine whether the tone will be played. Changes in this parameter will not affect currently registered devices. To get changes of this parameter to currently registered devices, the devices have to be restarted.

This is a required field.

Default: False

## 设置多维数据集XMF提供商

这些配置启用HTTP通信和XMF提供商配置：

CUBE001：

```
ip http server
no ip http secure-server
ip http max-connections 1000
IP HTTP超时策略空闲600个生活86400请求86400
ip http client source-interface Port-channel20.307
uc wsapi
消息交换最大故障2
source-address 10.106.230.20
探查的间隔Keepalive 5
探查的最大故障5
!
提供商xmf
远程URL 1 http://10.106.97.140:8090/ucm\_xmf
远程URL 2 http://10.106.97.141:8090/ucm\_xmf
远程URL 3 http://10.106.97.143:8090/ucm\_xmf
远程URL 4 http://10.106.97.144:8090/ucm\_xmf
```

CUBE002：

```
ip http server
no ip http secure-server
ip http max-connections 1000
IP HTTP超时策略空闲600个生活86400请求86400
ip http client source-interface Port-channel20.307
```

uc wsapi  
 消息交换最大故障2  
 source-address 10.106.230.20  
 探查的间隔Keepalive 5  
 探查的最大故障5

!  
 提供商xmf  
 远程URL 1 [http://10.106.97.140:8090/ucm\\_xmf](http://10.106.97.140:8090/ucm_xmf)  
 远程URL 2 [http://10.106.97.141:8090/ucm\\_xmf](http://10.106.97.141:8090/ucm_xmf)  
 远程URL 3 [http://10.106.97.143:8090/ucm\\_xmf](http://10.106.97.143:8090/ucm_xmf)  
 远程URL 4 [http://10.106.97.144:8090/ucm\\_xmf](http://10.106.97.144:8090/ucm_xmf)

Parameter	Description
ip http client source-interface	set to match the uc wsapi source address
ip http max-connections 1000	please set accordingly with the expected calls
source-address x.x.x.x	This is the IP Address to which the CUCM sends the http XMF messages. This IP Address must match the destination IP in the CUCM SIP Trunk configuration for the "dummy" CUBE.
probing interval keepalive 5	note that any other message sent by the gateway will be treated as a keepalive
probing interval negative 5	default value, shown for completeness
Remote-url	call processing servers, max 32 entries

## 设置呼叫INFO头的多维数据集SIP配置文件

为了在产生的多维数据集必须采取有x ciscoorigIP头关心的一正确值正确地设置它。设置值在多种方式可以达到并且执行在多维数据集是不必要的，例如，在CVP可能也设置。这是静态地设置在流出的x ciscoorigIP值从多维数据集邀请到尖顶的示例SIP配置文件。

```
---
语音组SIP配置文件666
请求邀请SIP头呼叫INFO添加“呼叫INFO : <sip:10.106.242.27>;PURPOSE=x-cisco-origIP"
---
```

如果UCCE系统已经依靠呼叫INFO头，则与必需的xcisco- origIP的秒钟呼叫INFO头。试验证明CUCM将执行必需关于分类，当x ciscoorigIP在SIP的第二个呼叫INFO头包含邀请时。同样试验证明然而其他系统停止工作，如果新的呼叫INFO头首先放置。配置文件需要被运用于指向尖顶的呼出拨号对端。

关于详细配置，请是指此链路：

## 排除故障

### 日志分析

#### 流入请从Customer Voice Portal (CVP)邀请

```
01382866.006 |12:52:49.858 |AppInfo |SIPtcp - wait_SdlReadRsp: Incoming SIP TCP message from
10.106.97.135 on port 53696 index 65 with 1695 bytes:
[105066,NET]
```



INVITE sip:9876@eu91.voip.test SIP/2.0  
Via: SIP/2.0/TCP 10.106.97.135:5060;branch=z9hG4bKc7z5eWQrKkRtP5FKnbAb6w~~780271  
Via: SIP/2.0/TCP 10.106.97.136:5062;branch=z9hG4bKhYyfmvtY8.fm7CSyQd9K4Q~~48611  
Max-Forwards: 63  
Record-Route: <sip:rr\$n=cvp@10.106.97.135:5060;transport=tcp;lr>  
To: <sip:9876@CVP001.eu91.lab.test;transport=tcp>  
From: +1234567890 <sip:+1234567890@10.106.97.136:5062>;tag=dsf816dd0c  
Contact: <sip:+1234567890@10.106.97.136:5062;transport=tcp>  
Expires: 60  
Diversion: <sip:+123459876@10.106.97.137>;reason=unconditional;screen=yes;privacy=off  
Call-ID: 694646BC1D2311E7A8D2826ACB31D85A-149182876973312598@10.106.97.136  
CSeq: 1 INVITE  
Content-Length: 250  
User-Agent: CVP 10.5 (1) ES-18 Build-36  
Date: Mon, 10 Apr 2017 12:52:38 GMT  
Min-SE: 1800  
Cisco-Guid: 1766213308-0488837607-2832368234-3409041498  
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER  
Allow-Events: telephone-event  
P-Asserted-Identity: <sip:+1234567890@10.106.97.138>  
Session-Expires: 1800  
Content-Disposition: session;handling=required  
History-Info: <sip:\u95>  
History-Info: <sip:\u95>  
Call-Info: <sip:10.106.97.138>;purpose=x-cisco-origIP  
Cisco-Gucid: 694646BC1D2311E7A8D2826ACB31D85A  
Supported: timer  
Supported: resource-priority  
Supported: replaces  
Supported: sdp-anat  
Content-Type: application/sdp  
App-Info: <10.106.97.136:8000:8443>

v=0  
o=CiscoSystemsSIP-GW-UserAgent 2790 2026 IN IP4 10.106.97.138  
s=SIP Call  
c=IN IP4 10.106.242.1  
t=0 0  
m=audio 16552 RTP/AVP 8 101  
c=IN IP4 10.106.242.1  
a=rtpmap:8 PCMA/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=ptime:20

## 呼入呼叫的数字分析

```
01382890.009 |12:52:49.861 |AppInfo ||PretransformCallingPartyNumber=+1234567890  
|CallingPartyNumber=+1234567890  
|DialingPartition=SYS-DN-PlainE164-PT  
|DialingPattern=9876  
|FullyQualifiedCalledPartyNumber=9876  
|DialingPatternRegularExpression=(9876)  
|DialingWhere=
```

## 呼叫没有和本地CTI端口的(LCP)呼叫标识符(CI)关联

```
01382897.001 |12:52:49.862 |AppInfo |LBMIF: CI: 43358624 ASSOC 43358625
01382897.002 |12:52:49.862 |AppInfo |LBMIF: CI: 43358625 ASSOC' 43358624
```

## LCP选择

```
01382902.001 |12:52:49.862 |AppInfo |LineCdpc(135): -dispatchToAllDevices-, sigName=CcSetupReq,
device=LCP_47483708
01382905.002 |12:52:49.862 |AppInfo |StationCdpc(59): StationCtiCdpc-CtiEnableReq CH=0|0
DevName=LCP_47483708 DN=442086180755 Lock=0 FId=0 Side=0
LineFilter=11111110110111111111111010011111111111011101111111 for DN=442086180755
```

## 180敲响被发送到CVP

```
01382949.001 |12:52:49.865 |AppInfo |SIPtcp - wait_SdlSPISignal: Outgoing SIP TCP message to
10.106.97.135 on port 53696 index 65
[105068,NET]
SIP/2.0 180 Ringing
Via: SIP/2.0/TCP 10.106.97.135:5060;branch=z9hG4bKc7z5eWQrKkRtP5FKnbAb6w~~780271,SIP/2.0/TCP
10.106.97.136:5062;branch=z9hG4bKhYyfmvtY8.fm7CSyQd9K4Q~~48611
From: +1234567890 <sip:+1234567890@10.106.97.136:5062>;tag=dsf816dd0c
To: <sip:9876@CVP001.eu91.lab.test;transport=tcp>;tag=46359~8c66ebf6-153f-456b-a6e8-
0bf5f687ce1f-43358624
Date: Mon, 10 Apr 2017 12:52:49 GMT
Call-ID: 694646BC1D2311E7A8D2826ACB31D85A-149182876973312598@10.106.97.136
CSeq: 1 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Record-Route: <sip:rr$n=cvp@10.106.97.135:5060;transport=tcp;lr>
Server: Cisco-CUCM10.5
Supported: X-cisco-srtp-fallback
Supported: Geolocation
P-Asserted-Identity: <sip:9876@10.107.28.14>
Remote-Party-ID: <sip:9876@10.107.28.14>;party=called;screen=yes;privacy=off
Contact: <sip:9876@10.107.28.14:5060;transport=tcp>
Content-Length: 0
```

## RCP对被叫号码扩大呼叫

LCP和呼叫号码环和远程CTI端口(RCP)对被叫号码即扩大呼叫，代理程序。

```
01382957.000 |12:52:49.882 |SdlSig |CtiEnableReq |null0
|StationCdpc(2,100,64,60) |StationD(2,100,63,245)
|2,200,13,85.12075^10.241.240.197^RCP_47483708 |[R:N-H:0,N:4,L:0,V:0,Z:0,D:0] mDataCount=1
LH=2|431 mbMore=T bConsultWithoutMedia=F mediaTerm=2
01382957.001 |12:52:49.882 |AppInfo |StationCdpc(2,100,64,60): StationCtiCdpc::StationCtiCdpc
01382957.002 |12:52:49.882 |AppInfo |StationCdpc(60): StationCtiCdpc-CtiEnableReq CH=0|0
DevName=RCP_47483708 DN=442086180755 Lock=0 FId=0 Side=0
LineFilter=11111110110111111111111010011111111111011101111111 for DN=442086180755
01382958.000 |12:52:49.882 |SdlSig |StationOutputSetRinger
|restart0 |StationD(2,100,63,245)
|StationD(2,100,63,245) |2,200,13,85.12075^10.241.240.197^RCP_47483708 |[R:N-
H:0,N:3,L:0,V:0,Z:0,D:0] Mode=RingOff Duration=Normal Line=0 CI=0
01382958.001 |12:52:49.882 |AppInfo |StationD: (0000245) SetRinger ringMode=1(RingOff).
```

## 呼叫的RCP的数字分析代理程序

```
01383005.013 |12:52:49.885 |AppInfo ||PretransformCallingPartyNumber=9876
```

|CallingPartyNumber=9876  
|DialingPartition=TE-PSTNInternational-PT  
|DialingPattern=+.[1-9]!  
|FullyQualifiedCalledPartyNumber=+1122334455  
|DialingPatternRegularExpression=(+)([1-9][0-9]+)

## RCP和代理程序的呼叫标识符(CI)关联

01383012.001 |12:52:49.885 |AppInfo |LBMIF: CI: 43358626 ASSOC 43358627  
01383012.002 |12:52:49.885 |AppInfo |LBMIF: CI: 43358627 ASSOC' 43358626

## invite为代理程序被派出：

01383048.001 |12:52:49.888 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.241.242.99 on port 5060 index 55  
[105069,NET]  
INVITE sip:1122334455@10.106.22.199:5060 SIP/2.0  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0870d07a53  
From: <sip:9876@10.107.28.14>;tag=46360~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-43358627  
To: <sip:1122334455@10.106.22.199>  
Date: Mon, 10 Apr 2017 12:52:49 GMT  
Call-ID: 98b4ac00-8eb18021-67f3-c2e4110a@10.107.28.14  
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,X-cisco-original-called  
Call-Info: <sip:10.107.28.14:5060>;method="NOTIFY;Event=telephone-event;Duration=500"  
Call-Info: <urn:x-cisco-remotec:callinfo>;x-cisco-video-traffic-class=VIDEO\_UNSPECIFIED  
Cisco-Guid: 2561977344-0000065536-0000000138-3269726474  
Session-Expires: 1800  
P-Asserted-Identity: <sip:9876@10.107.28.14>  
Remote-Party-ID: <sip:9876@10.107.28.14>;party=calling;screen=yes;privacy=off  
Contact: <sip:9876@10.107.28.14:5060;transport=tcp>;DeviceName="RCP\_47483708"  
Max-Forwards: 70  
Content-Length: 0

01383182.002 |12:53:00.624 |AppInfo |SIPTcp - wait\_SdlReadRsp: Incoming SIP TCP message from 10.106.22.199 on port 5060 index 55 with 1204 bytes:  
[105079,NET]  
SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0870d07a53  
Record-Route: <sip:rr\$n=cube-pool-int@10.106.22.199:5060;transport=tcp;lr>  
To: <sip:1122334455@10.106.22.199>;tag=AD1038-15B8  
From: <sip:9876@10.107.28.14>;tag=46360~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-43358627  
Contact: <sip:1122334455@10.106.97.138:5060;transport=tcp>  
Require: timer  
Remote-Party-ID: <sip:+1122334455@10.106.97.138>;party=called;screen=no;privacy=off  
Call-ID: 98b4ac00-8eb18021-67f3-c2e4110a@10.107.28.14  
CSeq: 101 INVITE  
Content-Length: 250  
Date: Mon, 10 Apr 2017 12:52:49 GMT  
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER

Allow-Events: telephone-event  
Supported: replaces  
Supported: sdp-anat  
Supported: timer  
Server: Cisco-SIPGateway/IOS-15.4.3.M5  
Session-Expires: 1800;refresher=uac  
Content-Type: application/sdp  
Content-Disposition: session;handling=required

v=0  
o=CiscoSystemsSIP-GW-UserAgent 6311 9012 IN IP4 10.106.97.138  
s=SIP Call  
c=IN IP4 10.106.242.1  
t=0 0  
m=audio 16554 RTP/AVP 8 101  
c=IN IP4 10.106.242.1  
a=rtpmap:8 PCMA/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=ptime:20

## RCP暂挂中去，并且LCP和主叫方连接

```
01383470.004 |12:53:00.650 |AppInfo |StationD: (0000388) INFO- sendSignalNow,
sigName=StationOffHook, cdpc=59
01383471.000 |12:53:00.651 |SdlSig-O |CtiLineCallAnswerRes |NA RemoteSignal
|UnknownProcessName(2,200,25,1) |StationD(2,100,63,388)
|2,200,13,85.12078^10.241.240.197^LCP_47483708 |[R:N-H:0,N:3,L:1,V:0,Z:0,D:0]
AsyncResponse=29664 mResult=0x0
01383472.000 |12:53:00.651 |SdlSig |StationOutputSetRinger |restart0 |StationD(2,100,63,388)
|StationD(2,100,63,388) |2,200,13,85.12078^10.241.240.197^LCP_47483708 |[R:N-
H:0,N:2,L:1,V:0,Z:0,D:0] Mode=RingOff Duration=Normal Line=0 CI=0
01383472.001 |12:53:00.651 |AppInfo |StationD: (0000388) SetRinger ringMode=1(RingOff).
```

## 媒体Connect请求为主叫方和LCP

```
01383497.001 |12:53:00.651 |AppInfo |ARBTRY-ConnectionManager-
wait_MediaConnectRequest(43358624,43358625)
01383497.002 |12:53:00.651 |AppInfo |ARBTRY-ConnectionManager- storeMediaInfo(CI=43358624): ADD
NEW ENTRY, size=3
01383497.003 |12:53:00.651 |AppInfo |ARBTRY-ConnectionManager- storeMediaInfo(CI=43358625): ADD
NEW ENTRY, size=4
```

## 媒介终接点(MTP)为LCP和主叫方分配

```
01383508.002 |12:53:00.652 |AppInfo |MediaResourceCdpc(185)::waiting_MrmAllocateMtpResourceReq
- CI=43358630 Count=1 TryPassThru=1
```

## 记录在LCP端口被启用

```
01383607.002 |12:53:00.655 |AppInfo | StationCdpc: startRecordingIfNeeded - Device LCP_47483708,
startedByCti=0, RecordingType=1. Cannot start -- not in active state yet. haveCodec=1,
inActiveStat=0
```

```
01383614.016 |12:53:00.655 |AppInfo | StationCdpc: startRecordingIfNeeded - Device LCP_47483708,
locking codec, codecType=2
```

```
01383614.017 |12:53:00.655 |AppInfo | StationCdpc: star_MediaExchangeAgenaQueryCapability -
Device LCP_47483708, codec locked due to recording, codecType=2
```

```
01383614.018 |12:53:00.655 |AppInfo | StationCdp: startRecordingIfNeeded - Device LCP_47483708,
startedByCti=0, RecordingType=1. haveCodec=1, inActiveStat=1
01383614.019 |12:53:00.655 |AppInfo |StatiopnCdp::StartRecordingIfNeeded DeviceName
=LCP_47483708 RecordinngMethod =1
01383614.020 |12:53:00.655 |AppInfo | StationCdp: startRecordingIfNeeded - Device LCP_47483708.
FinalToneDir=3, initial=3, svc:ToObserved=0, svc:toConnected=0 recorderDestination=123456789
```

## 记录的Signaling启动

```
01383640.003 |12:53:00.657 |AppInfo |RecordManager::- await_SsDataInd
lParties=(43358624,43358625)
01383641.000 |12:53:00.657 |SdlSig |SsDataInd |await_recordingFeatureData
|Recording(2,100,100,77) |RecordManager(2,100,101,1)
|2,200,13,85.12078^10.241.240.197^LCP_47483708 |[R:N-H:0,N:0,L:1,V:0,Z:0,D:0] SsType=33554461
SsKey=0 SsNode=2 SsParty=43358625 DevId=(0,0,0) BCC=9 OtherParty=43358624 NodeOtherParty=2
clearType = 0 CSS=587b40f7-bead-433d-9ddf-a99ca36b0753 CNumInfo = 0 CNameInfo = 0 ssDevType=4
ssOtherDevType=8 FDataType=16opId=-2147483643ssType=0 SsKey=0invokeId=0resultExp=Fbpda=F ssCause
= 0 ssUserState = 2 ssOtherUserState = 2 PL=5 PLDmn=0 networkDomain= delayAPTimer=F
geolocInfo={geolocPkid=, filterPkid=, geolocVal=, devType=4} cfwdTimerAction=0
matchInterceptPartition= matchInterceptPattern=
01383641.001 |12:53:00.657 |AppInfo |Recording::- (0000077) -
await_recordingFeatureData_SsDataInd: mRecordingMethod=[1]
01383641.002 |12:53:00.657 |AppInfo |Recording::- (0000077) -
await_recordingFeatureData_SsDataInd: Trigger started. mRecordingMethod=[1]
```

```
01383645.001 |12:53:00.657 |AppInfo |Recording::- (0000077) -processGWPreferred ....
01383645.002 |12:53:00.657 |AppInfo |Recording::- (0000077) -getRecordingAnchorMode:
PeerBib=[1];peerCMDevType=[8];qSigAduSupported=[0]
01383645.003 |12:53:00.657 |AppInfo |Recording::- (0000077) -processGWPreferred: GW Recording -
sideABibEnabled=[1]
```

## 构件的数字分析在网桥(围嘴)

```
1383671.008 |12:53:00.658 |AppInfo ||PretransformCallingPartyNumber=
|CallingPartyNumber=
|DialingPartition=
|DialingPattern=b0026901001
|FullyQualifiedCalledPartyNumber=b0026901001
|DialingPatternRegularExpression=(b0026901001)
```

## 此处SIPBIB创建记录的SIPBIBCDPC进程

```
01383681.000 |12:53:00.658 |SdlSig |CcSetupReq |restart0 |SIPvBIB(2,100,69,1)
|Cdcc(2,100,219,295)
01383681.001 |12:53:00.658 |AppInfo |SIPvBIB::restart0_CcSetupReq: primCallCi=43358624
primCallBranch=0.
01383682.000 |12:53:00.658 |SdlSig |CcSetupReq |restart0 |SIPvBIBcdpc(2,100,68,55)
|SIPvBIB(2,100,69,1) |2,200,13,85.12078^10.241.240.197^LCP_47483708 |[R:N-
H:0,N:0,L:1,V:0,Z:0,D:0] CI=43358633 CI.branch=0 sBPL.plid=65 sBPL.l=0 sBPL.pl=5 sBPL.msd=0
01383682.001 |12:53:00.658 |AppInfo |CcSetupReq onBehalfOf=Recording refCI=43358624, CI=43358633
```

## 200 LCP和主叫方的OK

```
01383761.001 |12:53:00.668 |AppInfo |SIPTcp - wait_SdlSPISignal: Outgoing SIP TCP message to
10.106.97.135 on port 53696 index 65
[105082,NET]
SIP/2.0 200 OK
Via: SIP/2.0/TCP 10.106.97.135:5060;branch=z9hG4bKc7z5eWQrKkRtP5FKnbAb6w~~780271,SIP/2.0/TCP
```

10.106.97.136:5062;branch=z9hG4bKhYyfmvtY8.fM7CSyQd9K4Q~~48611  
From: +1234567890 <sip:+1234567890@10.106.97.136:5062>;tag=dsf816dd0c  
To: <sip:9876@CVP001.eu91.lab.test;transport=tcp>;tag=46359~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-43358624  
Date: Mon, 10 Apr 2017 12:52:49 GMT  
Call-ID: 694646BC1D2311E7A8D2826ACB31D85A-149182876973312598@10.106.97.136  
CSeq: 1 INVITE  
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY  
Allow-Events: presence, kpml  
Record-Route: <sip:rr\$n=cvp@10.106.97.135:5060;transport=tcp;lr>  
Supported: replaces  
Server: Cisco-CUCM10.5  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Session-Expires: 1800;refresher=uas  
Require: timer  
P-Asserted-Identity: <sip:9876@10.107.28.14>  
Remote-Party-ID: <sip:9876@10.107.28.14>;party=called;screen=yes;privacy=off  
Contact: <sip:9876@10.107.28.14:5060;transport=tcp>;DeviceName="LCP\_47483708"  
Content-Type: application/sdp  
Content-Length: 246

v=0  
o=CiscoSystemsCCM-SIP 46359 1 IN IP4 10.107.28.14  
s=SIP Call  
c=IN IP4 10.17.229.27  
b=TIAS:64000  
b=CT:64  
b=AS:64  
t=0 0  
m=audio 23304 RTP/AVP 8 101  
a=ptime:20  
a=rtpmap:8 PCMA/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

## 记录的详细资料

此处记录是首选的网关：

```
01383780.001 |12:53:00.669 |AppInfo |Recording::- (000077) -  
setMetaDataWithLocalPhoneOrGWForking:  
forkingPos=[2];forkingGuid=[694646BC1D2311E7A8D2826ACB31D85A];resDevNum=[+1234567890]  
01383780.002 |12:53:00.669 |AppInfo |Recording::- (000077) -buildOtherParm: OtherParm=[x-  
nearend;x-refci=43358625;x-nearendclusterid=eu91;x-nearenddevice=LCP_47483708;x-  
nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-farenddevice=EU91BCUBE002-  
Trk;x-farendaddr=+1234567890;x-farendguid=694646BC1D2311E7A8D2826ACB31D85A].
```

## 记录编号的数字分析

```
01383793.012 |12:53:00.669 |AppInfo |Digit analysis: analysis results  
01383793.013 |12:53:00.669 |AppInfo ||PretransformCallingPartyNumber=b0026901001  
|CallingPartyNumber=b0026901001  
|DialingPartition=SYS-NiceRecording-PT  
|DialingPattern=123456789  
|FullyQualifiedCalledPartyNumber=123456789  
|DialingPatternRegularExpression=(123456789)
```



## 呼叫延伸到Route列表

01383807.001 |12:53:00.670 |AppInfo |RouteListControl::idle\_CcSetupReq -  
RouteList(NICERecording-01-RL), numberSetup=0 numberMember=1 vmEnabled=0

## 邀请发送到近端设备的记录的服务器

01383831.001 |12:53:00.671 |AppInfo |SIPtcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
10.17.230.4 on port 5060 index 1  
[105083,NET]  
INVITE sip:123456789@10.17.230.4:5060 SIP/2.0  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0d30bfa6ec  
From: <sip:+1234567890@10.107.28.14;x-nearend;x-refci=43358625;x-nearendclusterid=eu91;x-  
nearenddevice=LCP\_47483708;x-nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-  
farenddevice=EU91BCUBE002-Trk;x-farendaddr=+1234567890;x-  
farendguid=694646BC1D2311E7A8D2826ACB31D85A>;tag=46365~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-  
43358634  
To: <sip:123456789@10.17.230.4>  
Date: Mon, 10 Apr 2017 12:53:00 GMT  
Call-ID: 9f432380-8eb1802c-67f6-c2e4110a@10.107.28.14  
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  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Cisco-Guid: 2671977344-0000065536-0000000139-3269726474  
Session-Expires: 1800  
P-Asserted-Identity: <sip:+1234567890@10.107.28.14>  
Remote-Party-ID: <sip:+1234567890@10.107.28.14>;party=calling;screen=yes;privacy=off  
Contact: <sip:+1234567890@10.107.28.14:5060;transport=tcp>;isFocus  
Max-Forwards: 70  
Content-Length: 0

## 200从记录服务器接收的Ok

SIP/2.0 200 OK  
From: <sip:+1234567890@10.107.28.14;x-nearend;x-refci=43358625;x-nearendclusterid=eu91;x-  
nearenddevice=LCP\_47483708;x-nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-  
farenddevice=EU91BCUBE002-Trk;x-farendaddr=+1234567890;x-  
farendguid=694646BC1D2311E7A8D2826ACB31D85A>;tag=46365~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-  
43358634  
To: <sip:123456789@10.17.230.4>;tag=ealfb60-0-13c4-5506-90037-9c2acf-90037  
Call-ID: 9f432380-8eb1802c-67f6-c2e4110a@10.107.28.14  
CSeq: 101 INVITE  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0d30bfa6ec  
Supported: timer  
Contact: <sip:123456789@10.17.230.4:5060;transport=TCP>  
Session-Expires: 1800;refresher=uas  
Content-Type: application/sdp  
Content-Length: 119

v=0  
o=VRSP 0 0 IN IP4 127.0.0.1  
s=NICE VRSP  
c=IN IP4 127.0.0.1

t=0 0  
m=audio 1000 RTP/AVP 0 4 8 9 18  
a=recvonly

01383896.001 |12:53:00.673 |AppInfo |Recording::- (0000077) -  
setMetaDataWithLocalPhoneOrGWForking:  
forkingPos=[2];forkingGuid=[694646BC1D2311E7A8D2826ACB31D85A];resDevNum=[+1234567890]  
01383896.002 |12:53:00.673 |AppInfo |Recording::- (0000077) -buildOtherParm: OtherParm=[x-  
farend;x-refci=43358625;x-nearendclusterid=eu91;x-nearenddevice=LCP\_47483708;x-  
nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-farenddevice=EU91BCUBE002-  
Trk;x-farendaddr=+1234567890;x-farendguid=694646BC1D2311E7A8D2826ACB31D85A].

## 从CUCM (ACK)发送的应答

01384017.001 |12:53:00.678 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
10.17.230.4 on port 5060 index 1  
[105086,NET]  
ACK sip:123456789@10.17.230.4:5060;transport=TCP SIP/2.0  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0e716815d6  
From: <sip:+1234567890@10.107.28.14;x-nearend;x-refci=43358625;x-nearendclusterid=eu91;x-  
nearenddevice=LCP\_47483708;x-nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-  
farenddevice=EU91BCUBE002-Trk;x-farendaddr=+1234567890;x-  
farendguid=694646BC1D2311E7A8D2826ACB31D85A>;tag=46365~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-  
43358634  
To: <sip:123456789@10.17.230.4>;tag=ealfb60-0-13c4-5506-90037-9c2acf-90037  
Date: Mon, 10 Apr 2017 12:53:00 GMT  
Call-ID: 9f432380-8eb1802c-67f6-c2e4110a@10.107.28.14  
User-Agent: Cisco-CUCM10.5  
Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence  
Content-Type: application/sdp  
Content-Length: 232

v=0  
o=CiscoSystemsCCM-SIP 46365 1 IN IP4 10.107.28.14  
s=SIP Call  
c=IN IP4 10.106.242.1  
b=TIAS:0  
b=AS:0  
t=0 0  
m=audio 7000 RTP/AVP 8 101  
a=rtpmap:8 PCMA/8000  
a=sendonly  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

## CUCM发送为远端装置发送Invite到记录的服务器

01384043.001 |12:53:00.679 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to  
10.17.230.4 on port 5060 index 1  
[105087,NET]  
INVITE sip:123456789@10.17.230.4:5060 SIP/2.0  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0f5120dbe5  
From: <sip:+1234567890@10.107.28.14;x-farend;x-refci=43358625;x-nearendclusterid=eu91;x-  
nearenddevice=LCP\_47483708;x-nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-  
farenddevice=EU91BCUBE002-Trk;x-farendaddr=+1234567890;x-  
farendguid=694646BC1D2311E7A8D2826ACB31D85A>;tag=46366~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-  
43358637  
To: <sip:123456789@10.17.230.4>

Date: Mon, 10 Apr 2017 12:53:00 GMT  
Call-ID: 9f432380-8eb1802c-67f7-c2e4110a@10.107.28.14  
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  
Supported: X-cisco-srtp-fallback  
Supported: Geolocation  
Cisco-Guid: 2671977344-0000065536-0000000140-3269726474  
Session-Expires: 1800  
P-Asserted-Identity: <sip:+1234567890@10.107.28.14>  
Remote-Party-ID: <sip:+1234567890@10.107.28.14>;party=calling;screen=yes;privacy=off  
Contact: <sip:+1234567890@10.107.28.14:5060;transport=tcp>;isFocus  
Max-Forwards: 70  
Content-Length: 0

## 200从记录服务器的OK

SIP/2.0 200 OK  
From: <sip:+1234567890@10.107.28.14;x-farend;x-refci=43358625;x-nearendclusterid=eu91;x-nearenddevice=LCP\_47483708;x-nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-farenddevice=EU91BCUBE002-Trk;x-farendaddr=+1234567890;x-farendguid=694646BC1D2311E7A8D2826ACB31D85A>;tag=46366~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-43358637  
To: <sip:123456789@10.17.230.4>;tag=ealf830-0-13c4-5506-90037-22ea55b6-90037  
Call-ID: 9f432380-8eb1802c-67f7-c2e4110a@10.107.28.14  
CSeq: 101 INVITE  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b0f5120dbe5  
Supported: timer  
Contact: <sip:123456789@10.17.230.4:5060;transport=TCP>  
Session-Expires: 1800;refresher=uas  
Content-Type: application/sdp  
Content-Length: 119

v=0  
o=VRSP 0 0 IN IP4 10.10.1.10  
s=NICE VRSP  
c=IN IP4 127.0.0.1  
t=0 0  
m=audio 1000 RTP/AVP 0 4 8 9 18  
a=recvonly

## 从CUCM发送的ACK

01384207.001 |12:53:00.882 |AppInfo |SIPTcp - wait\_SdlSPISignal: Outgoing SIP TCP message to 10.17.230.4 on port 5060 index 1  
[105091,NET]  
ACK sip:123456789@10.17.230.4:5060;transport=TCP SIP/2.0  
Via: SIP/2.0/TCP 10.107.28.14:5060;branch=z9hG4bK6b1013a924b6  
From: <sip:+1234567890@10.107.28.14;x-farend;x-refci=43358625;x-nearendclusterid=eu91;x-nearenddevice=LCP\_47483708;x-nearendaddr=9876;x-farendrefci=43358624;x-farendclusterid=eu91;x-farenddevice=EU91BCUBE002-Trk;x-farendaddr=+1234567890;x-farendguid=694646BC1D2311E7A8D2826ACB31D85A>;tag=46366~8c66ebf6-153f-456b-a6e8-0bf5f687ce1f-43358637  
To: <sip:123456789@10.17.230.4>;tag=ealf830-0-13c4-5506-90037-22ea55b6-90037  
Date: Mon, 10 Apr 2017 12:53:00 GMT  
Call-ID: 9f432380-8eb1802c-67f7-c2e4110a@10.107.28.14  
User-Agent: Cisco-CUCM10.5

Max-Forwards: 70  
CSeq: 101 ACK  
Allow-Events: presence  
Content-Type: application/sdp  
Content-Length: 232

v=0  
o=CiscoSystemsCCM-SIP 46366 1 IN IP4 10.107.28.14  
s=SIP Call  
c=IN IP4 10.106.242.1  
b=TIAS:0  
b=AS:0  
t=0 0  
m=audio 7000 RTP/AVP 8 101  
a=rtpmap:8 PCMA/8000  
a=sendonly  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15

## 呼叫的代理程序最后编号

RCP端口监听MOH，然后稍后从MOH断开并且连接回到代理程序终于连接代理程序到呼叫号码。

```
01384484.001 |12:53:04.609 |AppInfo |ARBTRY-ConnectionManager-  
wait_MediaConnectRequest(43358626,43358627)  
01384484.002 |12:53:04.609 |AppInfo |ARBTRY-ConnectionManager- storeMediaInfo(CI=43358626):  
EXISTING ENTRY DISCOVERED, size=9  
01384484.003 |12:53:04.609 |AppInfo |ARBTRY-ConnectionManager- storeMediaInfo(CI=43358627):  
EXISTING ENTRY DISCOVERED, size=9
```

## CUCM发送SDL HTTP请求

在200 OK为近端之后发生，并且远端装置邀请，CUCM发送SDL HTTP请求起动机记录

## LCP记录的SDL HTTP请求

```
01384808.000 |12:53:04.672 |SdlSig |SdlHTTPReq |wait |SdlHTTPService(2,100,6,1)  
|CayugaInterface(2,100,34,1) |2,100,14,283.3^10.17.230.4^* |[T:N-H:0,N:0,L:0,V:0,Z:0,D:0]  
method: 3 url: http://10.106.97.138:8090/cisco_xmf data: <?xml version="1.0" encoding="UTF-8"?>  
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">  
<soapenv:Body>  
<RequestXmfConnectionMediaForking xmlns="http://www.cisco.com/schema/cisco_xmf/v1_0">  
<msgHeader>  
<transactionID>Cisco:UCM:CayugaIf:1:69</transactionID>  
<registrationID>C094:XMF:Unified CM 10.5.2.12901-1:1</registrationID>  
</msgHeader>  
<callID>42</callID>  
<connID>554</connID>  
<action>  
<enableMediaForking>  
<nearEndAddr>  
<ipv4>10.17.230.5</ipv4>  
<port>42095</port>  
</nearEndAddr>  
<farEndAddr>  
<ipv4>10.17.230.5</ipv4>  
<port>42094</port>
```

```
</farEndAddr>
<preserve>true</preserve>
</enableMediaForking>
</action>
</RequestXmfConnectionMediaForking>
</soapenv:Body>
</soapenv:Envelope>
```

```
01384843.001 |12:53:04.674 |AppInfo |Recording::- (0000077) - Media Setup Complete:
mRecordingCallInfo
01384843.002 |12:53:04.674 |AppInfo |RCD_RecordingCallInfo::print: resourceInfo
01384843.003 |12:53:04.674 |AppInfo |RCD_ResourceInfo::print: nodeId=2
01384843.004 |12:53:04.674 |AppInfo |RCD_ResourceInfo::print: bNum
01384843.005 |12:53:04.674 |AppInfo |RCD_Utility::printCcPtyNum: CcPtyNum contains only
Directory Number (b0026901001)
01384843.006 |12:53:04.674 |AppInfo |RCD_RecordingCallInfo::print: recordedPartyInfo
01384843.007 |12:53:04.674 |AppInfo |RCD_RecordedPartyInfo::print: ssAe
01384843.008 |12:53:04.674 |AppInfo |RCD_Utility::printSsAe: ss=43358625, nodeId=2
01384843.009 |12:53:04.674 |AppInfo |RCD_RecordedPartyInfo::print: partyNum
01384843.010 |12:53:04.674 |AppInfo |RCD_Utility::printCcPtyNum: CcPtyNum contains only
Directory Number (+1234567890)
01384843.011 |12:53:04.674 |AppInfo |RCD_RecordedPartyInfo::print: deviceName = LCP_47483708

01384843.023 |12:53:04.674 |AppInfo |RCD_Utility::printCcPtyNum: CcPtyNum contains only
Directory Number (123456789)
01384843.024 |12:53:04.674 |AppInfo |RCD_RecorderPartyInfo::print: partition = 812fe5de-3a9b-
4d67-9fdd-023582e18388, deviceName = NICERecording-01
```

## 相关信息

- [http://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cust\\_contact/contact\\_center/mediasense/10/srnd/CUMS\\_BK\\_MC36D963\\_00\\_mediasense-srnd/CUMS\\_BK\\_MC36D963\\_00\\_mediasense-srnd\\_chapter\\_0111.html](http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cust_contact/contact_center/mediasense/10/srnd/CUMS_BK_MC36D963_00_mediasense-srnd/CUMS_BK_MC36D963_00_mediasense-srnd_chapter_0111.html)
- <http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voice-cube-uc-gateway-services.html>
- <http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/voice/cube/configuration/cube-book/voice-ntwk-based.html>
- [技术支持和文档 - Cisco Systems](#)