

# 用拨号程序接口和动态IP配置并且排除SIP捆绑故障在多维数据集

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## Introduction

本文描述工作情况Cisco Unified Border Element (多维数据集)，当会话初始化协议(SIP)控制和媒体捆绑配置有获得动态IP的拨号程序接口时。当有在动态地获得IP地址的多维数据集时配置的拨号程序接口，如果SIP控制和媒体捆绑配置有该拨号程序接口全局，SIP捆绑发生与可用的物理接口根据路由。如果SIP控制和媒体捆绑被配置在拨号点下，则捆绑发生故障。

## Prerequisites

### Requirements

Cisco 建议您了解以下主题：

- 如何配置和使用Cisco IOS语音
- 如何配置和使用多维数据集
- 如何配置拨号程序接口

### Components Used

本文档中的信息基于以下软件和硬件版本：

- 路由器平台CISCO2911/K9

- Cisco IOS 15.1.2T

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

## 相关产品

本文可能也与这些一起使用硬件和软件版本：

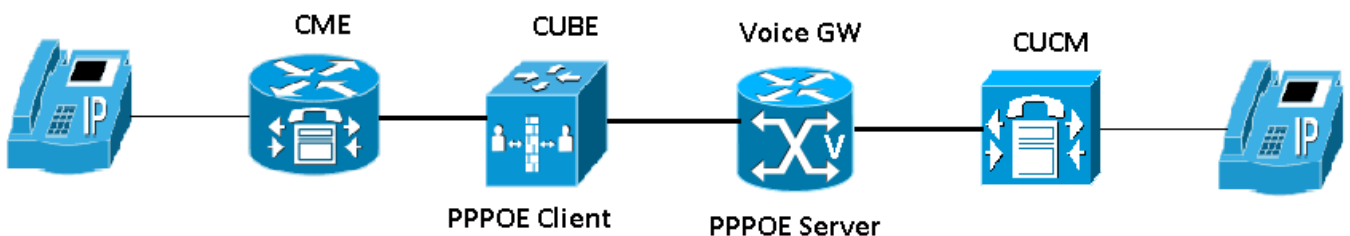
- 集成服务路由器生成1 (ISR G1)
- ISR G2
- Cisco IOS 15.1.2T或以上

## 背景信息

用在作为Cisco Unified Communications Manager Express的多维数据集的动态IP配置拨号程序接口(CME)。IP电话向CME登记和集成Cisco Unified通信管理器(CUCM)使用SIP，和簇。

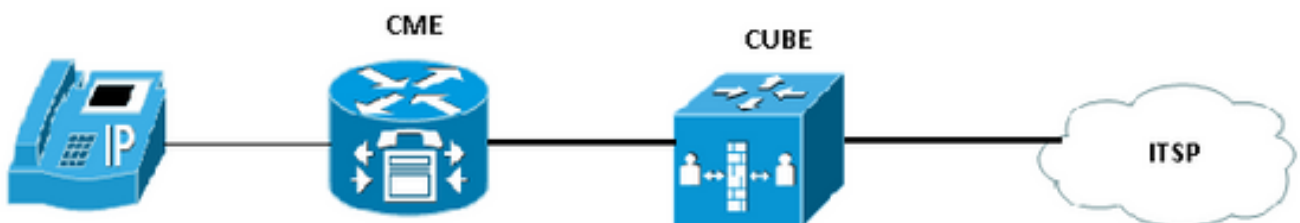
### 模拟拨号程序设置的呼叫流

CME和多维数据集在同一路由器驻留。如此镜像所显示，除该之外，语音网关作为以太网点对点协议(PPPoE)服务器和CME/CUBE PPPoE客户端。



**Note:**呼叫流显示如何模拟拨号程序接口设置。

实际呼叫流在此镜像显示。



## Configure

## 在PPPoE服务器上

```
interface FastEthernet0/0
ip address 10.252.102.49 255.255.255.240
ip rip advertise 4
load-interval 30
duplex auto
speed auto
pppoe enable group global
!
interface Virtual-Template1
mtu 1492
ip unnumbered FastEthernet0/0
peer default ip address pool pppoepool
peer default ipv6 pool pppoepool
ipv6 unnumbered FastEthernet0/0
ppp authentication pap chap
!
ip local pool pppoepool 10.10.10.1 10.10.10.200
```

## 在PPPoE客户端

```
interface GigabitEthernet0/2
no ip address
no ip redirects
no ip unreachable
no ip proxy-arp
ip tcp adjust-mss 1452
duplex auto
speed auto
pppoe enable group global
pppoe-client dial-pool-number 1
!
interface Dialer1
ip address negotiated
encapsulation ppp
dialer pool 1
dialer-group 1
ipv6 address autoconfig
ipv6 enable
ppp authentication pap chap callin
ppp chap hostname cisco
ppp chap password 0 sisco
ppp pap sent-username cisco password 0 sisco
```

**Note:**路由没有被配置作为PPPoE服务器，并且客户端紧接有一连接。

## Verify

当前没有可用于此配置的验证过程。

## Troubleshoot

本部分提供了可用于对配置进行故障排除的信息。

## 测试方案和日志分析

### 测试方案1.捆绑控制和媒体与全局拨号程序接口

```
sip
bind control source-interface Dialer1
bind media source-interface Dialer1
```

结果：捆绑发生与可用的物理接口IP如显示。

```
Mar 7 07:41:32.095: //10/BB96E2038018/SIP/Info/verbose/513/resolve_media_ip_address_to_bind:
peer_tag=3
Mar 7 07:41:32.095: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_ip_address_to_bind:
ip_get_ifaddress IPv4 0.0.0.0 for SIP
Mar 7 07:41:32.095: //10/BB96E2038018/SIP/Error/resolve_media_ip_address_to_bind:
bind interface address not available
Mar 7 07:41:32.095: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_media_ip_address_to_bind:
ip_best_local_address 10.106.124.61 for SIP
Mar 7 07:41:32.095: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_media_ip_address_to_bind:
return addr 10.106.124.61
Mar 7 07:41:32.095: //10/BB96E2038018/SIP/Media/sipSPISetMediaSrcAddr: Media src addr for stream
1 = 10.106.124.61
```

### 测试方案2.捆绑控制和媒体在拨号点级别

```
Mar 7 07:41:32.095: //10/BB96E2038018/SIP/Info/verbose/513/resolve_media_ip_address_to_bind:
peer_tag=3
Mar 7 07:41:32.095: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_ip_address_to_bind:
ip_get_ifaddress IPv4 0.0.0.0 for SIP
Mar 7 07:41:32.095: //10/BB96E2038018/SIP/Error/resolve_media_ip_address_to_bind:
bind interface address not available
Mar 7 07:41:32.095: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_media_ip_address_to_bind:
ip_best_local_address 10.106.124.61 for SIP
Mar 7 07:41:32.095: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_media_ip_address_to_bind:
return addr 10.106.124.61
Mar 7 07:41:32.095: //10/BB96E2038018/SIP/Media/sipSPISetMediaSrcAddr: Media src addr for stream
1 = 10.106.124.61
```

结果：导致呼叫失败如显示的捆绑发生故障。

```
Mar 7 10:28:46.406: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_ip_address_to_bind:
ip_get_ifaddress IPv4 0.0.0.0 for SIP
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/resolve_media_ip_address_to_bind:
bind interface address not available
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/resolve_media_ip_address_to_bind:
Invalid dialpeer bind media config
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/sipSPICreateOutboundStreams:
Failed to get source adres for IPv4 stream
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Info/critical/1/sipSPIOutgoingCallSDP: Failure in
creating outbound streams
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/sipSPICreateOutboundSDP:
Error in creating an SDP for the outbound call - Check for supported codecs
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/preprocessSetup:
Error during outbound SDP creation
```

### 测试方案3.在拨号点级别的仅捆绑控制

```
Mar 7 10:28:46.406: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_ip_address_to_bind:
ip_get_ifaddress IPv4 0.0.0.0 for SIP
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/resolve_media_ip_address_to_bind:
bind interface address not available
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/resolve_media_ip_address_to_bind:
Invalid dialpeer bind media config
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/sipSPICreateOutboundStreams:
Failed to get source address for IPv4 stream
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Info/critical/1/sipSPIOutgoingCallSDP: Failure in
creating outbound streams
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/sipSPICreateOutboundSDP:
Error in creating an SDP for the outbound call - Check for supported codecs
Mar 7 10:28:46.406: //69/188C458A8068/SIP/Error/preprocessSetup:
Error during outbound SDP creation
```

结果：仍然捆绑失效，但是与一个不同的错误信息如显示。

```
Mar 7 10:14:08.874: //-1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_ip_address_to_bind:
ip_get_ifaddress IPv4 0.0.0.0 for SIP
Mar 7 10:14:08.874: //-1/xxxxxxxxxxxx/SIP/Error/resolve_sig_ip_address_to_bind:
Dialpeer bind configured, interface addr failure
Mar 7 10:14:08.874: //51/0D80BDA18043/SIP/Error/sipSPIOutgoingCallSDP:
resolve_sig_ip_address_to_bind failed
Mar 7 10:14:08.874: //-1/xxxxxxxxxxxx/SIP/Media/sipSPIReserveRtpPort: reserved port 16392 for
stream 1
Mar 7 10:14:08.874: //51/0D80BDA18043/SIP/Info/info/1/sipSPIDoBearerCapToCodecMapping: Bearer
capability to Codec Mapping: DISABLED
```

## Bug详细信息

Bug # [CSCun85947](#)为此工作情况在这些报告了和被修正了被提及的Cisco IOS版本。

```
Mar 7 10:14:08.874: //-
1/xxxxxxxxxxxx/SIP/Info/info/8192/resolve_ip_address_to_bind: ip_get_ifaddress
IPv4 0.0.0.0 for SIP
Mar 7 10:14:08.874: //-
1/xxxxxxxxxxxx/SIP/Error/resolve_sig_ip_address_to_bind:
Dialpeer bind configured,
interface addr failure
Mar 7 10:14:08.874:
//51/0D80BDA18043/SIP/Error/sipSPIOutgoingCallSDP:
resolve_sig_ip_address_to_bind failed
Mar 7 10:14:08.874: //-
1/xxxxxxxxxxxx/SIP/Media/sipSPIReserveRtpPort:
reserved port 16392 for
stream 1
Mar 7 10:14:08.874:
//51/0D80BDA18043/SIP/Info/info/1/sipSPIDoBearerCapToCodecMapping: Bearer
capability to Codec Mapping: DISABLED
```

**Note:**工作对于受影响的Cisco IOS版本是配置拨号程序接口用静态IP。

提示：关于更详细的资料，请参见Cisco Bug ID [CSCun85947](#)。