

# 配置并且排除故障SIP绑定与拨号接口和动态IP在多维数据集

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## 简介

本文描述行为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与拨号接口该获得动态IP时。当有在动态地获得IP地址的多维数据集时配置的拨号接口，如果SIP控制和媒体捆绑配置与该拨号接口全局，SIP捆绑发生与可用的物理接口根据路由。如果SIP控制和媒体捆绑配置在dial-peer下，则捆绑发生故障。

## 先决条件

### 要求

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。
- 如何配置拨号接口。

### 使用的组件

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

- IOS 15.1.2T

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。

## 相关产品

本文档也可用于以下硬件和软件版本：

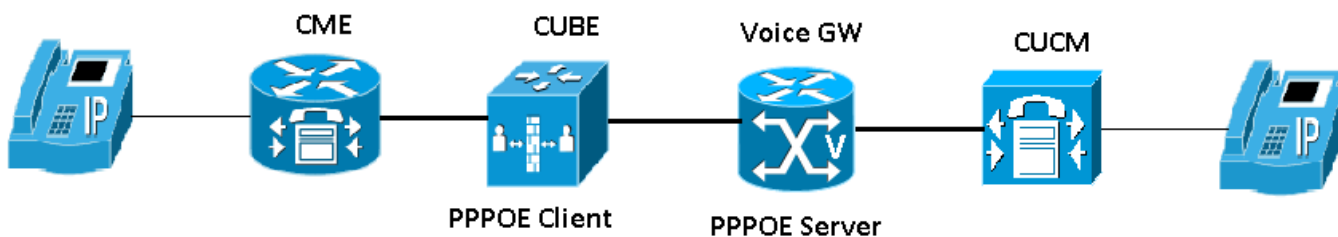
- 集成服务路由器生成1 (ISR G1)
- ISR G2
- IOS 15.1.2T或以上

## 背景信息

配置与动态IP的拨号接口在作为Cisco Unified Communications Manager Express的多维数据集 (CME)。IP电话注册与CME和集成与Cisco Unified Communications Manager (CUCM)使用SIP，集群。

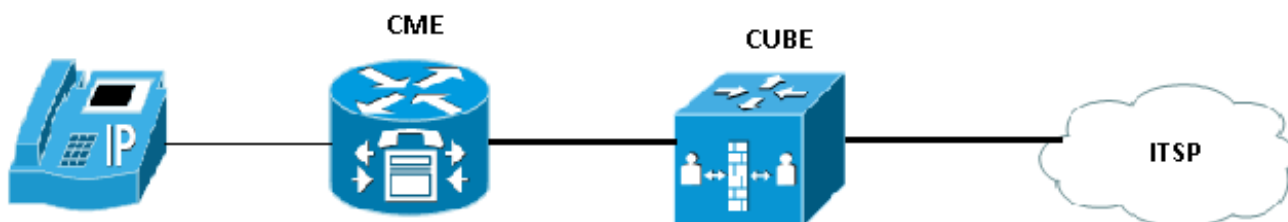
## 模拟拨号程序设置的呼叫流

CME & 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。



**注意：**呼叫流显示如何模拟拨号接口设置。

实际呼叫流在此镜像显示。



# 配置

## 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 pppoe pool
peer default ipv6 pool pppoe pool
ipv6 unnumbered FastEthernet0/0
ppp authentication pap chap
!
ip local pool pppoe pool 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
```

**注意：**因为pppoe服务器&客户端紧接有一连接，路由没有配置。

## 验证

当前没有可用于此配置的验证过程。

## 故障排除

### 测试方案和日志分析

## 测试方案1.捆绑控制&媒体与全局拨号接口

```
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&媒体在dial-peer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：捆绑失效造成呼叫失败如显示。

```
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
```

## 测试方案3.在dial-peer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：仍然绑定失效，但是与一不同的错误消息如显示。

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](#)为此行为报告和在被提及的IOS版本之下修复。

15.3(3)M2.4

15.3(3)M3

15.3(3)S2.9

15.3(3)S3

15.4(2.1.2)S

15.4(2.12.1)PIH25

15.4(2.15)S

15.4(2.9)T

15.4(3)S

**注意：**工作对于受影响的IOS版本是配置与静态IP的拨号接口。

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