

# CUCM和VCS在呼叫的体验单向音频在他们之间

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## 简介

本文描述如何排除故障呼叫的单向音频问题在视频通信服务器(VCS)和Cisco Unified Communications Manager (CUCM)之间。

## 问题

象这样的一呼叫，终端1-----H323----VCS----SIP----CUCM---Endpoint 2，也许导致终端1听不到终端2的单向音频。

这是从VCS的日志分析。

VCS发送200 OK给CallManager：

```
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,296"  
Module="network.sip" Level="DEBUG": Dst-ip="10.69.12.2" Dst-port="60493"  
SIPMSG:  
|SIP/2.0 200 OK  
Via: SIP/2.0/TCP 10.69.12.2:5060;branch=z9hG4bK2359e3e241306;received=  
10.69.12.2;ingress-zone=CUCMNeighbour  
Call-ID: 8935a699d9e9e3f8@127.0.0.1  
CSeq: 102 INVITE  
Contact: <sip:AVS.EX60.-.Elliott@172.17.254.1>  
From: <sip:00419241145@10.69.11.1:5060>;tag=6417ce1c-8b93-4ba0-859a-ad892a39  
e373-92748854  
To: <sip:AVS.EX60.-.Elliott@172.17.254.1>;tag=27b6f95b717b59fc  
v=0  
o=tandberg 0 3 IN IP4 127.0.0.1  
s=-  
c=IN IP4 172.17.254.1  
b=AS:512  
t=0 0  
m=audio 51390 RTP/AVP 0 101  
b=TIAS:64000  
a=rtpmap:0 PCMU/8000  
a=rtpmap:101 telephone-event/8000  
a=fmtp:101 0-15  
a=sendrecv  
a=rtcp:51391 IN IP4 172.17.254.1
```

在MasterSlaveDetermination前，VCS设法发送OpenLogicalChannel (OLC)到终端，导致OLC的终端拒绝：

```
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,366"
Module="network.h323" Level="DEBUG": Dst-ip="172.19.83.180" Dst-port="11158"
Sending H.245 PDU:
value MultimediaSystemControlMessage ::= request : openLogicalChannel :
{
forwardLogicalChannelNumber 1,
forwardLogicalChannelParameters
{
dataType audioData &colon; g711Ulaw64k : 40,
multiplexParameters h2250LogicalChannelParameters :
{
sessionID 1,
mediaControlChannel unicastAddress : ipAddress :
{
network 'AC11FE01'H,
tsapIdentifier 51669
},
transportCapability
{
mediaChannelCapabilities
{
{
mediaTransport ip-UDP : NULL
}
}
}
}
}
}
```

这是从终端的MasterSlaveDetermination :

```
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,475"
Module="network.h323" Level="INFO": Src-ip="172.19.83.180" Src-port="11158"
Detail="Received H.245 MasterSlaveDeterminationRequest "
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,475"
Module="network.h323" Level="DEBUG": Src-ip="172.19.83.180" Src-port="11158"
Received H.245 PDU:
value MultimediaSystemControlMessage ::= request : masterSlaveDetermination :
{
terminalType 190,
statusDeterminationNumber 8028716
}
}
```

这是MasterSlaveDeterminationAck对终端 :

```
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,475"
Module="network.h323" Level="INFO": Dst-ip="172.19.83.180" Dst-port="11158"
Detail="Sending H.245 MasterSlaveDeterminationAckResponse Master"
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,475"
Module="network.h323" Level="DEBUG": Dst-ip="172.19.83.180" Dst-port="11158"
Sending H.245 PDU:
value MultimediaSystemControlMessage ::= response : masterSlaveDeterminationAck :
{
decision master : NULL
}
}
```

因为OLC在MasterSlaveDetermination前 , 进来OLC的终端的拒绝导致单向音频。

```
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,519"
Module="network.h323" Level="INFO": Src-ip="172.19.83.180" Src-port="11158"
Detail="Received H.245 OpenLogicalChannelRejResponse "
2014-01-23T12:40:10+11:00 vcs-cont-pro-1 tvcs: UTCTime="2014-01-23 01:40:10,519"
Module="network.h323" Level="DEBUG": Src-ip="172.19.83.180" Src-port="11158"
Received H.245 PDU:
```

```
value MultimediaSystemControlMessage ::= response : openLogicalChannelReject :  
{  
forwardLogicalChannelNumber 1,  
cause masterSlaveConflict : NULL  
}
```

## 解决方案

此问题是由Cisco Bug ID [CSCuc98144](#)引起的，并且修正是启用允许空邀请在CUCM区域的VCS区域配置文件。这强制VCS派出初始邀请与预先配置的会话描述协议(SDP)，允许呼叫连接在两个方向的音频。

在VCS配置下->区域->区域，挑选CUCM区域，和更改在此屏幕画面指示的字段：

其它选项是升级VCS对问题是解决的版本X8.1.1。

**注意：**这只是一个原因呼叫也许有单向音频。