

# 在多维数据集企业一般的事例的SIP配置文件

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## 简介

本文描述如何使用是可行的为在Cisco.com的使用的[会话初始化协议\(SIP\)配置文件测试工具](#)。SIP配置文件用于为了操作在SIP消息的报头信息。他们可能也用于做在会话描述协议(SDP)的变动，用于协商媒体。

## [先决条件](#)

### [要求](#)

本文档中的信息根据思科集成多业务路由器(ISR)生成1 (2800/3800)或生成2 (2900/3900)系列。

### 使用的组件

Cisco 建议您了解以下主题：

- 定位通过Cisco IOS
- SIP消息格式和处理

## 普遍的SIP消息标准化方案

此部分提供频繁地被看到了的几个SIP消息标准化方案。每个方案包括在您的Cisco IOS要求的配置参考和一张屏幕画面从在介绍被提及的SIP配置文件测试工具。

这些方案可以作为参考使用在SIP消息要求的其他处理。

### Copy值从“转换”报头到“从”报头

```

voice class sip-profiles 1

request INVITE sip-header Diversion copy "<sip:(.*)@.*" u01

request INVITE sip-header From copy ".*<sip:(.*)@.*" u02

request INVITE sip-header From modify "(.*)<sip:.*@(.)" "\1<sip:\u01@2"

request INVITE sip-header From modify "<sip:@ " "<sip:\u02@"

```

**SIP-Profile:**

```

voice class sip-profiles 1
request INVITE sip-header Diversion copy "<sip:(.*)@.*" u01
request INVITE sip-header From copy ".*<sip:(.*)@.*" u02
request INVITE sip-header From modify "(.*)<sip:.*@(.)" "\1<sip:\u01@2"

```

Input Message	Output Message
INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0	INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:88882614@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0

**从“对”报头在流入邀请对“REQ-URI”参数的复制号码(在Cisco IOS Vesion 15.4)之前**

复制在的编号对在入站的报头邀请消息并且修改流出的邀请：

```

voice class sip-copylist 1
sip-header TO

voice class sip-profiles 2
request INVITE peer-header sip TO copy "sip:(.*)@" u01
request INVITE sip-header SIP-Req-URI modify ".*@(.)" "INVITE sip:\u01@1"

```

### SIP-Profile:

```
voice class sip-copylist 1
sip-header TO

voice class sip-profiles 2
request INVITE peer-header sip TO copy "sip:(.*)@" u01
request INVITE sip-header SIP-Req-URI modify ".*@(.)" "INVITE sip:\u01@\1"
```

Input Message	Output Message
<pre>INVITE sip:+18774116700@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: &lt;sip:88882614@17.0.44.11&gt;;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: &lt;sip:88882614@17.0.44.11&gt;;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

## 从“对”报头在流入邀请对“REQ-URI”参数的复制号码(与入站SIP配置文件)

```
voice class sip-profiles 1
request INVITE sip-header TO copy "sip:(.*)@" u01
request INVITE sip-header SIP-Req-URI modify ".*@(.)" "INVITE sip:\u01@\1"
```

```
voice service voip
sip
sip-profiles inbound
sip-profiles 1 inbound
```

### SIP-Profile:

```
voice class sip-profiles 1
request INVITE sip-header TO copy "sip:(.*)@" u01
request INVITE sip-header SIP-Req-URI modify ".*@(.)" "INVITE sip:\u01@\1"

voice service voip
sip
sip-profiles inbound
sip-profiles 1 inbound
```

Input Message	Output Message
<pre>INVITE sip:+18774116700@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: &lt;sip:88882614@17.0.44.11&gt;;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: &lt;sip:88882614@17.0.44.11&gt;;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

## 单向/无法音频互操作性问题与供应商

```
voice class sip-profiles 200
request ANY sdp-header Audio-Attribute modify "a=inactive" "a=sendrecv"
request ANY sdp-header Audio-Connection-Info modify "0.0.0.0" "CUBE's IP"
```

**SIP-Profile:**

```
voice class sip-profiles 200
request ANY sdp-header Audio-Attribute modify "a=inactive" "a=sendrecv"
request ANY sdp-header Audio-Connection-Info modify "0.0.0.0" "10.10.10.1"
```

Input Message	Output Message
INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Content-Disposition: session;handling=required <b>Content-Length: 261</b>  v=0 o=CiscoSystemsSIP-GW-UserAgent 1796 4793 IN IP4 17.0.44.11 s=SIP Call c=IN IP4 17.0.44.11 t=0 0 m=audio 0 RTP/AVP 0 101 19 <b>c=IN IP4 0.0.0.0</b> a=rtpmap:0 PCMU/8000 <b>a=inactive</b> a=rtpmap:101 telephone-event/8000 a=fmtp:101 0-16 a=rtpmap:19 CN/8000 a=ptime:20	INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Content-Disposition: session;handling=required <b>Content-Length: 273</b>  v=0 o=CiscoSystemsSIP-GW-UserAgent 1796 4793 IN IP4 17.0.44.11 s=SIP Call c=IN IP4 17.0.44.11 t=0 0 m=audio 0 RTP/AVP 0 101 19 <b>c=IN IP4 10.10.10.1</b> a=rtpmap:0 PCMU/8000 <b>a=sendrecv</b> a=rtpmap:101 telephone-event/8000 a=fmtp:101 0-16 a=rtpmap:19 CN/8000 a=ptime:20

**取消“更新”方法支持避免互操作性问题**

```
voice class sip-profiles 200
request ANY sip-header Allow-Header modify ",UPDATE" ""
```

**SIP-Profile:**

```
voice class sip-profiles 200
request ANY sip-header Allow-Header modify ", UPDATE" ""
```

Input Message	Output Message
INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 148F665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 <b>Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE,</b> <b>REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER</b> Content-Length: 0	INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 148F665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 <b>Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, REFER,</b> <b>SUBSCRIBE, NOTIFY, INFO, REGISTER</b> Content-Length: 0

**对域名转换的IP地址**

```
voice class sip-profiles 1
request ANY sip-header SIP-Req-URI modify "10.67.138.241:5060" "sipp.cisco.com"
```

## SIP-Profile:

```
voice class sip-profiles 1
request ANY sip-header SIP-Req-URI modify "10.67.138.241:5060" "sipp.cisco.com"
```

Input Message	Output Message
<pre>INVITE sip:9819940331@10.67.138.241:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Content-Length: 0</pre>	<pre>INVITE sip:9819940331@sipp.cisco.com SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Content-Length: 0</pre>

## 添加在“转换”报头的前缀

```
voice class sip-profiles 1
request ANY sip-header Diversion modify "sip:(.*)@" "sip:704264\1@"
```

## SIP-Profile:

```
voice class sip-profiles 1
request ANY sip-header Diversion modify "sip:(.*)@" "sip:704264\1@"
```

Input Message	Output Message
<pre>INVITE sip:9819940331@10.67.138.241:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Diversion: &lt;sip:2614@17.0.44.11&gt;;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:9819940331@10.67.138.241:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: &lt;sip:8152456266@17.0.44.11&gt;;tag=DEC125B4-3F9 To: &lt;sip:18774116706@172.30.238.49&gt; Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Diversion: &lt;sip:7042642614@17.0.44.11&gt;;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

## 可能的问题

这是您也许遇到的一些可能的问题。

- 在Cisco IOS版本15.4以后，SIP配置文件功能介绍修改入站SIP消息。
- Cisco IOS版本15.3和在出站方向的仅更早的支持SIP配置文件。