

配置Jabber使用在CUCM 11.5.1的自定义音频和视频端口范围

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简介

本文描述步骤配置思科Jabber使用在Cisco Unified Communications Manager (CUCM)的自定义音频和视频端口范围11.5.1。

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先决条件

要求

思科建议您有知识：

- 思科Jabber
- Cisco Unified Communications管理器(CUCM)

使用的组件

本文档中的信息基于以下软件版本：

- Windows的11.9.x思科Jabber
- Cisco Unified Communications Manager 11.5.x

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。如果您的网络实际，请保证您了解所有命令潜在影响。

配置

您能创建一新的SIP配置文件或复制英文虎报SIP配置文件和修改在您的复制的配置文件的端口范围如下：

- 导航对**设备>设备设置>**在Cisco Unified CM管理页面的**SIP配置文件**

- 点击**Find按钮**显示所有SIP配置文件
- 点击标准SIP配置文件并且点击**Copy按钮**
- 移下来到介质端口范围字段并且点击题为的单选按钮**音频和视频的独立的端口范围**
- 指定开始音频波尔特，终止音频波尔特，启动视频端口和终止视频端口

Parameters used in Phone	
Timer Invite Expires (seconds)*	180
Timer Register Delta (seconds)*	5
Timer Register Expires (seconds)*	3600
Timer T1 (msec)*	500
Timer T2 (msec)*	4000
Retry INVITE*	6
Retry Non-INVITE*	10
Media Port Ranges	<input type="radio"/> Common Port Range for Audio and Video <input checked="" type="radio"/> Separate Port Ranges for Audio and Video
Start Audio Port*	16384
Stop Audio Port*	16393
Start Video Port *	16394
Stop Video Port*	16403

Note:启动端口需要是偶数，并且终止端口需要是奇数

验证

发出从Jabber的呼叫并且确认在Jabber日志在出站指定的端口邀请会话描述协议(SDP)消息属于配置端口范围。

```

CSeq: 101 INVITE
User-Agent: Cisco-CSF
Contact: <sip:1553c615-14d6-39e8-0399-af6fdd5ee447@10.66.87.207:50268;transport=tcp>;+u.sip!devicename.ccm.cisco.com="CSFwstest1";video;bfcp
Expires: 180
Accept: application/sdp
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO
Remote-Party-ID: "1000" <sip:1000@dmaccorm-ucmpub.myothertestdomain.net>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1
Allow-Events: kpml,dialog
Recv-Info: conference
Recv-Info: x-cisco-conference
Content-Length: 2246
Content-Type: application/sdp
Content-Disposition: session;handling=optional

v=0
o=Cisco-SIPUA 20391 0 IN IP4 10.66.87.207
s=SIP Call
b=AS:4000
t=0 0

```

a=cisco-mari:v1
a=cisco-mari-rate
m=audio 16390 RTP/AVP 114 9 104 105 0 8 18 111 101
c=IN IP4 10.66.87.207
a=rtpmap:114 opus/48000/2
a=rtpmap:9 G722/8000
a=rtpmap:104 G7221/16000
a=fmtp:104 bitrate=32000
a=rtpmap:105 G7221/16000
a=fmtp:105 bitrate=24000
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=fmtp:18 annexb=no
a=rtpmap:111 x-ulpfecuc/8000
a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us
a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
m=video 16398 RTP/AVP 126 97 111
c=IN IP4 10.66.87.207
b=TIAS:4000000
a=rtpmap:126 H264/90000
a=fmtp:126 profile-level-id=42E01F;packetization-mode=1;level-asymmetry-allowed=1;max-
fs=3601;max-rcmd-nalu-size=32000
a=imageattr:126 recv [x=[32:1:1280],y=[18:1:720],par=1.7778,q=1.00]
a=content:main
a=label:11
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=42E01F;packetization-mode=0;level-asymmetry-allowed=1;max-fs=3601
a=imageattr:97 recv [x=[32:1:1280],y=[18:1:720],par=1.7778,q=1.00]
a=rtpmap:111 x-ulpfecuc/8000
a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us
a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP
a=rtcp-fb:* ccm fir
a=rtcp-fb:* ccm tmmbr
a=rtcp-fb:* nack pli
a=recvonly
m=video 16394 RTP/AVP 126 97 111
c=IN IP4 10.66.87.207
b=TIAS:4000000
a=rtpmap:126 H264/90000
a=fmtp:126 profile-level-id=42E01F;packetization-mode=1;level-asymmetry-allowed=1;max-
fs=3601;max-rcmd-nalu-size=32000
a=content:slides
a=label:12
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=42E01F;packetization-mode=0;level-asymmetry-allowed=1;max-fs=3601
a=rtpmap:111 x-ulpfecuc/8000
a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us
a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP
a=rtcp-fb:* ccm fir
a=rtcp-fb:* ccm tmmbr
a=rtcp-fb:* nack pli
a=sendrecv
m=application 5904 UDP/BFCP *
c=IN IP4 10.66.87.207
a=floorctrl:c-s
a=confid:3
a=floorid:2 mstrm:12
a=userid:3
a=setup:actpass
a=connection:new

```
a=sendrecv
m=application 39878 RTP/AVP 125
c=IN IP4 10.66.87.207
a=rtpmap:125 H224/4800
a=rtcp:39879
a=sendrecv
```

故障排除

如果在邀请SDP指定的端口不在已配置的范围，请查看jabber.log文件，在客户端的重新启动确定后自定义端口范围应用。

```
CSeq: 101 INVITE
User-Agent: Cisco-CSF
Contact: <sip:1553c615-14d6-39e8-0399-af6fdd5ee447@10.66.87.207:50268;transport=tcp>;+u.sip!devicename.ccm.cisco.com="CSFwstest1";video;bfc
Expires: 180
Accept: application/sdp
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO
Remote-Party-ID: "1000" <sip:1000@dmaccorm-ucmpub.myothertestdomain.net>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1
Allow-Events: kpml,dialog
Recv-Info: conference
Recv-Info: x-cisco-conference
Content-Length: 2246
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 20391 0 IN IP4 10.66.87.207
s=SIP Call
b=AS:4000
t=0 0
a=cisco-mari:v1
a=cisco-mari-rate
m=audio 16390 RTP/AVP 114 9 104 105 0 8 18 111 101
c=IN IP4 10.66.87.207
a=rtpmap:114 opus/48000/2
a=rtpmap:9 G722/8000
a=rtpmap:104 G7221/16000
a=fmtp:104 bitrate=32000
a=rtpmap:105 G7221/16000
a=fmtp:105 bitrate=24000
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=fmtp:18 annexb=no
a=rtpmap:111 x-ulpfecuc/8000
a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us
a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
m=video 16398 RTP/AVP 126 97 111
c=IN IP4 10.66.87.207
b=TIAS:4000000
a=rtpmap:126 H264/90000
```

```
a=fmtp:126 profile-level-id=42E01F;packetization-mode=1;level-asymmetry-allowed=1;max-
fs=3601;max-rcmd-nalu-size=32000
a=imageattr:126 recv [x=[32:1:1280],y=[18:1:720],par=1.7778,q=1.00]
a=content:main
a=label:11
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=42E01F;packetization-mode=0;level-asymmetry-allowed=1;max-fs=3601
a=imageattr:97 recv [x=[32:1:1280],y=[18:1:720],par=1.7778,q=1.00]
a=rtpmap:111 x-ulpfecuc/8000
a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us
a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP
a=rtcp-fb:* ccm fir
a=rtcp-fb:* ccm tmmbr
a=rtcp-fb:* nack pli
a=recvonly
m=video 16394 RTP/AVP 126 97 111
c=IN IP4 10.66.87.207
b=TIAS:4000000
a=rtpmap:126 H264/90000
a=fmtp:126 profile-level-id=42E01F;packetization-mode=1;level-asymmetry-allowed=1;max-
fs=3601;max-rcmd-nalu-size=32000
a=content:slides
a=label:12
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=42E01F;packetization-mode=0;level-asymmetry-allowed=1;max-fs=3601
a=rtpmap:111 x-ulpfecuc/8000
a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us
a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP
a=rtcp-fb:* ccm fir
a=rtcp-fb:* ccm tmmbr
a=rtcp-fb:* nack pli
a=sendrecv
m=application 5904 UDP/BFCP *
c=IN IP4 10.66.87.207
a=floorctrl:c-s
a=confid:3
a=floorid:2 mstrm:12
a=userid:3
a=setup:actpass
a=connection:new
a=sendrecv
m=application 39878 RTP/AVP 125
c=IN IP4 10.66.87.207
a=rtpmap:125 H224/4800
a=rtcp:39879
a=sendrecv
```

如果自定义端口范围没有根据上述日志片断应用，请查看在TFTP server的Jabber设备配置XML文件与Web浏览器([http:// <TFTP_SERVER_ADDRESS>:6970/<DEVICE_NAME>.cnf.xml](http://<TFTP_SERVER_ADDRESS>:6970/<DEVICE_NAME>.cnf.xml))。

```
CSeq: 101 INVITE
User-Agent: Cisco-CSF
Contact: <sip:1553c615-14d6-39e8-0399-
af6 added5ee447@10.66.87.207:50268;transport=tcp>;+u.sip!devicename.ccm.cisco.com="CSFwstest1";vide
o;bfc
Expires: 180
Accept: application/sdp
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE,INFO
Remote-Party-ID: "1000" <sip:1000@dmaccorm-ucmpub.myothertestdomain.net>;party=calling;id-
type=subscriber;privacy=off;screen=yes
Supported: replaces,join,sdp-anat,norefersub,resource-priority,extended-refer,X-cisco-
callinfo,X-cisco-serviceuri,X-cisco-escapecodes,X-cisco-service-control,X-cisco-srtp-fallback,X-
cisco-monrec,X-cisco-config,X-cisco-sis-7.0.0,X-cisco-xsi-8.5.1
```

Allow-Events: kpml,dialog
Recv-Info: conference
Recv-Info: x-cisco-conference
Content-Length: 2246
Content-Type: application/sdp
Content-Disposition: session;handling=optional

v=0

o=Cisco-SIPUA 20391 0 IN IP4 10.66.87.207

s=SIP Call

b=AS:4000

t=0 0

a=cisco-mari:v1

a=cisco-mari-rate

m=audio 16390 RTP/AVP 114 9 104 105 0 8 18 111 101

c=IN IP4 10.66.87.207

a=rtpmap:114 opus/48000/2

a=rtpmap:9 G722/8000

a=rtpmap:104 G7221/16000

a=fmtp:104 bitrate=32000

a=rtpmap:105 G7221/16000

a=fmtp:105 bitrate=24000

a=rtpmap:0 PCMU/8000

a=rtpmap:8 PCMA/8000

a=rtpmap:18 G729/8000

a=fmtp:18 annexb=no

a=rtpmap:111 x-ulpfecuc/8000

a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us

a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

a=sendrecv

m=video 16398 RTP/AVP 126 97 111

c=IN IP4 10.66.87.207

b=TIAS:4000000

a=rtpmap:126 H264/90000

a=fmtp:126 profile-level-id=42E01F;packetization-mode=1;level-asymmetry-allowed=1;max-fs=3601;max-rcmd-nalu-size=32000

a=imageattr:126 recv [x=[32:1:1280],y=[18:1:720],par=1.7778,q=1.00]

a=content:main

a=label:11

a=rtpmap:97 H264/90000

a=fmtp:97 profile-level-id=42E01F;packetization-mode=0;level-asymmetry-allowed=1;max-fs=3601

a=imageattr:97 recv [x=[32:1:1280],y=[18:1:720],par=1.7778,q=1.00]

a=rtpmap:111 x-ulpfecuc/8000

a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us

a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP

a=rtcp-fb:* ccm fir

a=rtcp-fb:* ccm tmmbr

a=rtcp-fb:* nack pli

a=recvonly

m=video 16394 RTP/AVP 126 97 111

c=IN IP4 10.66.87.207

b=TIAS:4000000

a=rtpmap:126 H264/90000

a=fmtp:126 profile-level-id=42E01F;packetization-mode=1;level-asymmetry-allowed=1;max-fs=3601;max-rcmd-nalu-size=32000

a=content:slides

a=label:12

a=rtpmap:97 H264/90000

a=fmtp:97 profile-level-id=42E01F;packetization-mode=0;level-asymmetry-allowed=1;max-fs=3601

a=rtpmap:111 x-ulpfecuc/8000

a=extmap:14/sendrecv http://protocols.cisco.com/timestamp#100us

a=fmtp:111 max_esel=1420;m=8;max_n=32;FEC_ORDER=FEC_SRTP

a=rtcp-fb:* ccm fir
a=rtcp-fb:* ccm tmmbr
a=rtcp-fb:* nack pli
a=sendrecv
m=application 5904 UDP/BFCP *
c=IN IP4 10.66.87.207
a=floorctrl:c-s
a=confid:3
a=floorid:2 mstrm:12
a=userid:3
a=setup:actpass
a=connection:new
a=sendrecv
m=application 39878 RTP/AVP 125
c=IN IP4 10.66.87.207
a=rtpmap:125 H224/4800
a=rtcp:39879
a=sendrecv