

在CUCM上配置安全临时会议15

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简介

本文档介绍如何在CUCM 15上配置安全临时会议。

先决条件

要求

Cisco 建议您了解以下主题：

- CUCM
- VG (语音网关)
- 安全概念

使用的组件

本文档中的信息基于以下软件和硬件版本：

- CUCM (混合模式) 版本：15.0.0.98100-196
- CISCO2921版本：15.7(3)M4b (用作CA和安全会议网桥)
- NTP 服务器
- 3台8865NR IP电话

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。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

配置

任务1.配置安全会议网桥并注册到CUCM。

步骤1:配置Public Key Infrastructure服务器和信任点。

步骤 1.1 配置NTP服务器和HTTP服务器。

```
VG-CME-1(config)#ntp server x.x.x.x (IP address of the NTP server)
VG-CME-1(config)#ip http server
```

步骤 1.2 配置Public Key Infrastructure服务器。

```
VG-CME-1(config)#crypto pki server testCA
VG-CME-1(cs-server)#database level complete
VG-CME-1(cs-server)#database url nvram:
VG-CME-1(cs-server)#grant auto
VG-CME-1(cs-server)#lifetime certificate 1800
```

步骤 1.3为testCA配置信任点。

```
VG-CME-1(config)#crypto pki trustpoint testCA
VG-CME-1(ca-trustpoint)#enrollment url http://x.x.x.x:80 (IP Address of testCA)
VG-CME-1(ca-trustpoint)#revocation-check none
VG-CME-1(ca-trustpoint)#rsakeypair testCA
```

步骤 1.4等待约30秒，然后发出命令no shutdown以启用testCA服务器。

```
VG-CME-1(config)#crypto pki server testCA
VG-CME-1(cs-server)#no shutdown
%Some server settings cannot be changed after CA certificate generation.
% Please enter a passphrase to protect the private key
% or type Return to exit
Password:

Re-enter password:
% Generating 1024 bit RSA keys, keys will be non-exportable...
[OK] (elapsed time was 2 seconds)

% Certificate Server enabled.
```

第二步：为安全会议网桥配置信任点并将其注册到testCA。

步骤 2.1 为安全会议网桥配置信任点并将其命名为SecureCFB。

```
VG-CME-1(config)#crypto pki trustpoint SecureCFB
VG-CME-1(ca-trustpoint)#enrollment url http://x.x.x.x:80 (IP Address of testCA)
VG-CME-1(ca-trustpoint)#serial-number none
VG-CME-1(ca-trustpoint)#fqdn none
VG-CME-1(ca-trustpoint)#ip-address none
VG-CME-1(ca-trustpoint)#subject-name cn=SecureCFB
VG-CME-1(ca-trustpoint)#revocation-check none
VG-CME-1(ca-trustpoint)#rsakeypair SecureCFB
```

步骤 2.2验证SecureCFB并键入“yes”以接受证书。

```
VG-CME-1(config)#crypto pki authenticate SecureCFB
Certificate has the following attributes:
  Fingerprint MD5: 383BA13D C37D0E5D 9E9086E4 8C8D1E75
  Fingerprint SHA1: 6DB8F323 14BBFBFF C36C224B B3404513 2FDD97C5

% Do you accept this certificate? [yes/no]: yes
Trustpoint CA certificate accepted.
```

步骤 2.3注册SecureCFB并设置密码。

```
VG-CME-1(config)#crypto pki enroll SecureCFB
%
% Start certificate enrollment ..
% Create a challenge password. You will need to verbally provide this
password to the CA Administrator in order to revoke your certificate.
For security reasons your password will not be saved in the configuration.
Please make a note of it.

Password:
Re-enter password:

% The subject name in the certificate will include: cn=SecureCFB
% The fully-qualified domain name will not be included in the certificate
Request certificate from CA? [yes/no]: yes
% Certificate request sent to Certificate Authority
% The 'show crypto pki certificate verbose SecureCFB' command will show the fingerprint.
```

第三步：在安全相关性网桥上配置CUCM的信任点。

步骤 3.1从CUCM下载CallManager证书并复制pem文件(Cisco Unified OS Administration > Security > Certificate Management)。

The screenshot shows the Cisco Unified Operating System Administration interface. The main window displays a list of certificates under the heading "Certificate List (1 - 42 of 42)". The first certificate, "CallManager", is highlighted with a red box. Its details are shown in a pop-up window titled "Certificate Details for CUCMPUB15.uc.com, CallManager". The details include:

- Status:** Ready
- Certificate Settings:**
 - File Name: CallManager.pem
 - Certificate Purpose: CallManager
 - Certificate Type: certs
 - Certificate Group: product-cm
 - Description: Self-signed certificate generated by system
- Certificate File Data:**
 - Version: 3 (0x2)
 - Serial Number: 61:00:28:ab:59:38:cc:7f:75:0c:e0:ce:87:83:0c:d
 - Signature Algorithm: sha256WithRSAEncryption
 - Issuer: C = CN, O = cisco, OU = a, CN = CUCMPUB15.uc.com, ST = c, L = b
 - Validity:
 - Not Before: Sep 8 10:15:06 2023 GMT
 - Not After: Sep 6 10:15:05 2028 GMT
 - Subject: C = CN, O = cisco, OU = a, CN = CUCMPUB15.uc.com, ST = c, L = b
 - Subject Public Key Info:
 - Public Key Algorithm: rsaEncryption
 - RSA Public-Key: (2048 bit)
 - Modulus:

The "Download .PEM File" button in the pop-up window is highlighted with a red box.

下载CallManager证书

步骤 3.2配置信任点，粘贴pem文件，键入yes以接受证书。

```
VG-CME-1(config)#crypto pki trustpoint cucm-pub
VG-CME-1(ca-trustpoint)# enrollment terminal
VG-CME-1(ca-trustpoint)# revocation-check none
VG-CME-1(ca-trustpoint)# crypto pki authenticate cucm-pub
```

Enter the base 64 encoded CA certificate.
End with a blank line or the word "quit" on a line by itself

```
-----BEGIN CERTIFICATE-----
MIIDozCCAougAwIBAgIQYQAoq1k4zH91DOAM6HgWzTANBgkqhkiG9w0BAQsFADBC
MQswCQYDVQQGEwJDTjEOMAwGA1UECgwFY2lyY28xY28xY28xY28xY28xY28xY28x
BAMMEENVQ01QVUixNS51Yy5jb20xY28xY28xY28xY28xY28xY28xY28xY28xY28x
MjMwOTA4MTAxNTA2WhcNMjg0MjMwOTA4MTAxNTA2WhcNMjg0MjMwOTA4MTAxNTA2
A1UECgwFY2lyY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28x
b20xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28xY28x
DwAwggEKAOlBAQD4Xfdl9MwYy/bSDXzGjtd301vYqKdRqpVYpWD7E+Nrh7zRgHh+
M7gAeqdRCSC/iKUF2g44RCRjIM0C/9xN3pxvOnNequg/Tv0wjpHm0X2O4x0daH+F
AwEIWNyZzVUQ6+2xtkTuUcqeXDnnbS6fLladP/CfgQwKX5U1Ec575ypUet6Fp2n2
4UouLQ5iFEMmX9gzGR7YKjeE+t61X5NmvYc6lyP8MH77sgvti7+xJurIUnvBFG2
ELXM0rL7uUoqw/rjMT6XxK+0ft4bkOsVnjl+vOUUBUoTcbFFrsfrOnVQjPJhHue
MLAaRzkDo5p1xo+UnNgv2uSH9HAID/NS1VTDAGMBAAGjYTBfMAsGA1UdDwQEAwIC
tDAdBgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwHQYDVR0OBBYEFKrlBeQi
```

```
OF6Hp0QCUfVYzKWiX2hMBIGA1UdEwEB/wQIMAYBAf8CAQAwDQYJKoZIhvcNAQEL
BQADggEBAJSw2vOwJ4UatmkaFpeLc9B1YZr8X6BkxBY1skW2qOLps61ysjDG61VQ
GjxpPLMY1ISyIVr5dqGyjaGLCUDUUCu66zEPxFNGnSYimBBhGR6NrDyo4YjOk+S
1I3TfRK+2F9NMhW2xTvuygoXLtyibvrZULhNo3vDPYQdTe1z54oQNU4BD8P+MCq9
+MzltCXEpVU6Jp71zC5HY+GF+Ab/xKBNzDjyY+OT8BFiO2wC8aaEaBvByNRzCSPD
MpU5cRaKvip2pszoR9mG3Rls4CkK93OX/OzFqklemDmY5WcylcCsybxAMbjdBDY9
err7iQZzjoW3eD5HxJKyVsfjDRtqg8=
-----END CERTIFICATE-----
```

Certificate has the following attributes:

Fingerprint MD5: 259A3F16 A5111877 901F00C8 F58C5CE3

Fingerprint SHA1: E4E91B76 B09C8BDF 81169444 BF5B4D77 E0738987

% Do you accept this certificate? [yes/no]: yes

Trustpoint CA certificate accepted.

% Certificate successfully imported

第四步：配置CUCM以信任安全会议网桥。

步骤 4.1 复制通用证书，并将其另存为 SecureCFB.pem 文件。复制 CA 证书，然后将其另存为 testCA.pem 文件。

```
VG-CME-1(config)#crypto pki export SecureCFB pem terminal
```

```
% CA certificate:
```

```
-----BEGIN CERTIFICATE-----
```

```
MIIIB+zCCAWSgAwIBAgIBATANBgkqhkiG9w0BAQQFADARMQ8wDQYDVQQDEwZ0ZXN0
Q0EwHhcNMjQwNTEwMDg0NDI3WhcNMjcwNTEwMDg0NDI3WjARMQ8wDQYDVQQDEwZ0
ZXN0Q0EwGZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAM2Lqils9nddFOx/YN7y
hhp9KGI2Eb8Zxq9E2mXfKpHOpbcGEic5ain+rXf1qauA8/pNYwvBurAZm2pWzFHQ
q4qGL8KWDwJCPTwPI5rJOJAMiYzMh4WdQerWP4iEI2LGtxCb1q8b3w0wJE0Q2OG4
4kDSeArkKe0cb26WZC1oVK1jAgMBAAGjYzBhMA8GA1UdEwEB/wQFMAMBAf8wDgYD
VR0PAQH/BAQDAGGMB8GA1UdIwQYMBaAFJOFqPH+VBcd01d9SzcPhNkWGqcWMB0G
A1UdDgQWBBSThajx/IQXHdNXfUswqYTZFhqnFjANBgkqhkiG9w0BAQQFAAOBgQAS
V8x9QjJ5pZKmezDYvxPDFe4chlKCD7o8JOcutSdAi7H+2Z+GO4CF55EDTZdLZPtn
GwQ01gbtDX07PTroYRWOSZLSJSdPQITJ3WDNR+NBhZjfe6EzfsLasD8L0VYG96GX
vjRQbdRmqbrG5H0ZUUz0cu93AXjnRI2nLoAkKcrjcQ==
-----END CERTIFICATE-----
```



```
% General Purpose Certificate:
```

```
-----BEGIN CERTIFICATE-----
```


```
MIIIB6jCCAVOgAwIBAgIBAjANBgkqhkiG9w0BAQUFADARMQ8wDQYDVQQDEwZ0ZXN0
Q0EwHhcNMjQwNTEwMDg1NTA4WhcNMjcwNTEwMDg0NDI3WjAUMRIwEAYDVQQDEwIT
ZWN1cmVDRklwgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBALhk11yOPnUNTjEQ
JLJIMPnoc6Zb9vDrGollMdsz/cZwKtiGcs9PYYxwcPBEExOOR+XrE9MmEO7L/tr6n
NkKz84ddWNz0gg6wHWM9gcje22blsleU6UCxo4ovra2pExXphusqEmg5yLQwyeJc
5JqcoAYXuRpnKLTfn5Nnh6iUCsWrAgMBAAGjTzBNMAsGA1UdDwQEAwIFoDAfBgNV
HSMEGDAWgBSThajx/IQXHdNXfUswqYTZFhqnFjAdBgNVHQ4EFgQU3y9zfDoTJ8WV
XlpX3wdcieq1zpkwDQYJKoZIhvcNAQEFBQADgYEABfaa6ppqRaDyfpW/tu5pXBRHP
SfZzpv+4ktsjAiOG7oGJGT0RpnuikCq+V2oucJbtWWAPbvX+ZBG3Eogi1c2GoDLK
yYvuaf9zBJHicM5mv6x81qxLF7FKZaepQSYwsQUP50/uKXa0435Kj/CZoLpKhXR2
v/p2jzF9zyPIBuQGEOEo=
-----END CERTIFICATE-----
```

步骤 4.2 将 SecureCFB.pem 上传到 CUCM 上的 CallManager-trust 存储区 (Cisco Unified OS Administration > Security > Certificate Management)。


Upload Certificate/Certificate chain


 Upload  Close

Status

 Warning: Uploading a cluster-wide certificate will distribute it to all servers in this cluster

Upload Certificate/Certificate chain

Certificate Purpose* 
Description(friendly name)
Upload File SCFB.pem

 *- indicates required item.

上传SecureCFB.pem

第五步：在VG上配置安全会议网桥。

```
VG-CME-1(config)#voice-card 0
VG-CME-1(config-voicecard)# dsp service dspfarm

VG-CME-1(config)#dspfarm profile 666 conference security
VG-CME-1(config-dspfarm-profile)# trustpoint SecureCFB
VG-CME-1(config-dspfarm-profile)# codec g711ulaw
VG-CME-1(config-dspfarm-profile)# codec g711alaw
VG-CME-1(config-dspfarm-profile)# codec g729r8
VG-CME-1(config-dspfarm-profile)# maximum sessions 4
VG-CME-1(config-dspfarm-profile)# associate application SCCP

VG-CME-1(config)#sccp local GigabitEthernet 0/1
VG-CME-1(config)#sccp ccm x.x.x.x identifier 666 version 7.0+ (IP address of CUCM)
VG-CME-1(config)#sccp

VG-CME-1(config)#sccp ccm group 666
VG-CME-1(config-sccp-ccm)# associate ccm 666 priority 1
VG-CME-1(config-sccp-ccm)# associate profile 666 register SecureCFB

VG-CME-1(config)#dspfarm profile 666 conference security
VG-CME-1(config-dspfarm-profile)# no shutdown
```

第六步：在CUCM上配置安全会议桥(Cisco Unified CM管理>媒体资源>会议桥>新增)。

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

System ▾ Call Routing ▾ Media Resources ▾ Advanced Features ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

Conference Bridge Configuration

Save Delete Copy Reset Apply Config Add New

Status

Status: Ready

Conference Bridge Information

Conference Bridge : SecureCFB (SecureCFB)
 Registration: Registered with Cisco Unified Communications Manager CUCMPUB15
 IPv4 Address: 10.124.42.5

IOS Conference Bridge Info

Conference Bridge Type* Cisco IOS Enhanced Conference Bridge
 Device is trusted
 Conference Bridge Name* SecureCFB
 Description SecureCFB
 Device Pool* Default ▾
 Common Device Configuration < None > ▾
 Location* Hub_None ▾
 Device Security Mode* Encrypted Conference Bridge ▾
 Use Trusted Relay Point* Default ▾

Save Delete Copy Reset Apply Config Add New

配置安全会议网桥

任务2.使用安全模式注册3台8865NR IP电话。

在IP电话上将设备安全配置文件设置为加密模式。

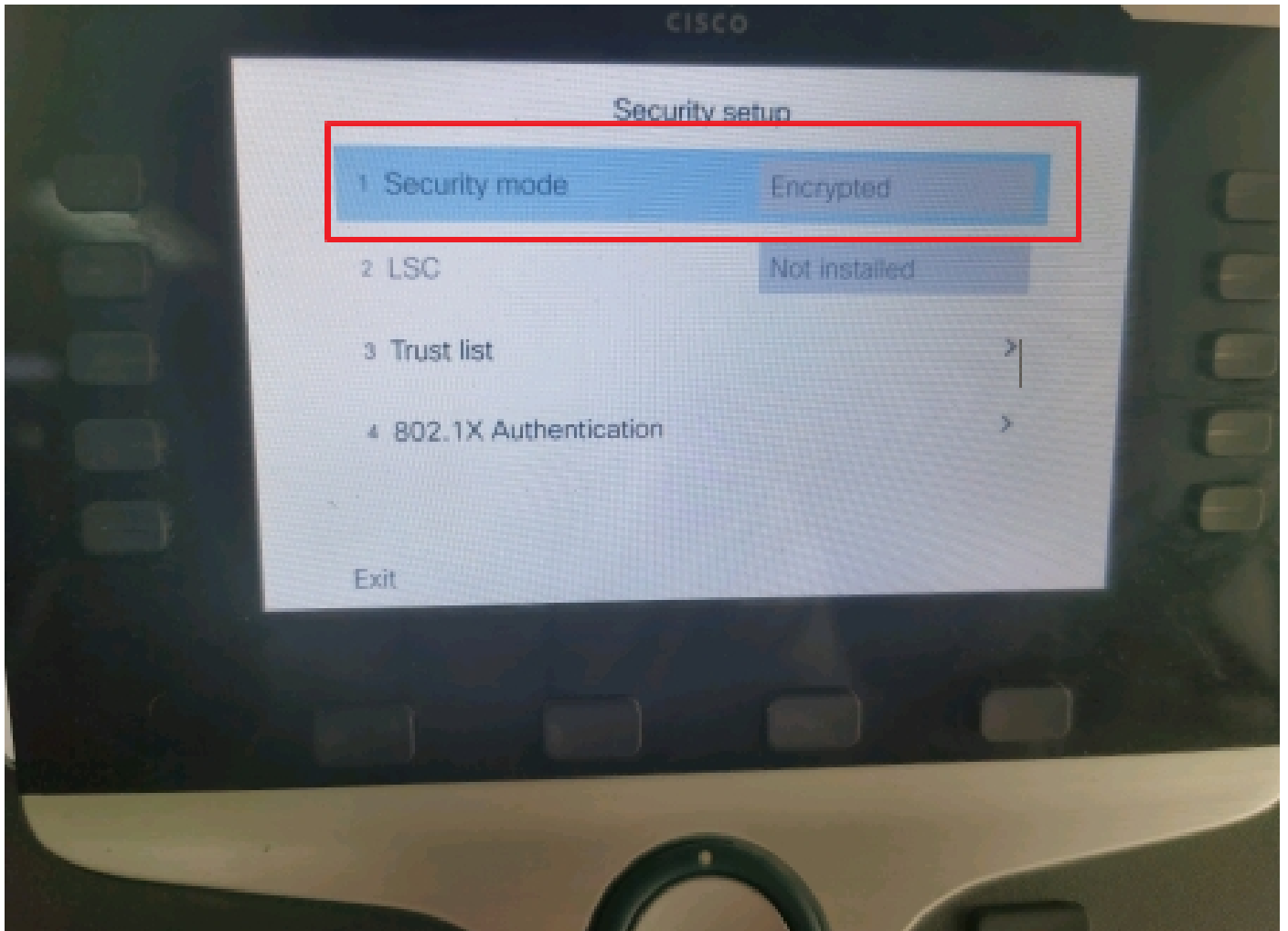
Protocol Specific Information

Packet Capture Mode* None ▾
 Packet Capture Duration 0
 BLF Presence Group* Standard Presence group ▾
 SIP Dial Rules < None > ▾
 MTP Preferred Originating Codec* 711ulaw ▾
Device Security Profile* Universal Device Template - Security Profile - Encryl ▾
 Rerouting Calling Search Space < None > ▾
 SUBSCRIBE Calling Search Space < None > ▾
 SIP Profile* < None > ▾ [View Details](#)
 Digest User < None > ▾

Media Termination Point Required
 Unattended Port
 Require DTMF Reception

将设备安全配置文件设置为加密模式

IP电话在Admin settings > Security Setup下显示Security mode with Encrypted。




安全模式已加密

任务3.使用安全会议网桥配置媒体资源组列表并将其分配给IP电话。

步骤1:创建媒体资源组MRG_SecureCFB并向其分配SecureCFB(Cisco Unified CM管理>媒体资源>媒体资源组)。

Media Resource Group Configuration

 Save  Delete  Copy  Add New

 Status: Ready

Media Resource Group Status

Media Resource Group: SecureCFB (used by 0 devices)

Media Resource Group Information

Name*

Description

Devices for this Group

Available Media Resources**

- ANN_2
- ANN_4
- CFB_2
- CFB_4
- IVR_2

Selected Media Resources*

- SecureCFB (CFB)

Use Multi-cast for MOH Audio (If at least one multi-cast MOH resource is available)

创建媒体资源组MRG_SecureCFB

第二步：创建媒体资源组列表MRGL_SecureCFB并向其分配MRG_SecureCFB(Cisco Unified CM管理>媒体资源>媒体资源组列表)。

System ▾ Call Routing ▾ Media Resources ▾ Advanced Features ▾ Device ▾ Application ▾ User Management ▾ Bulk A

Media Resource Group List Configuration

Save

Status
 Status: Ready

Media Resource Group List Status
 Media Resource Group List: New

Media Resource Group List Information
 Name*

Media Resource Groups for this List
 Available Media Resource Groups

Selected Media Resource Groups

创建媒体资源组列表MRGL_SecureCFB

第三步：将媒体资源组列表MRGL_SecureCFB分配给所有8865NR。

CISCO United CM Administration For Cisco Unified Communications Solutions Skip to Content Navigation Cisco Unified CM

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Phone Configuration

Related Links: [Back To Find/List](#)

Save Delete Copy Reset Apply Config Add New

7	Add a new SD	<input checked="" type="checkbox"/> Device is Active
8	Add a new SD	<input checked="" type="checkbox"/> Device is trusted
9	Add a new SD	MAC Address* <input type="text" value="A4B439D38E15"/> (SEPA4B439D38E15)
10	Add a new SD	Description <input type="text" value="SEPA4B439D38E15"/>
----- Unassigned Associated Items -----		
11	Add a new SD	<input type="checkbox"/> Require Activation Code for Onboarding
12	Alerting Calls	<input type="checkbox"/> Allow Activation Code via MRA
13	All Calls	Activation Code MRA Service Domain <input type="text" value="-- Not Selected --"/> View Details
14	Answer Oldest	Device Pool* <input type="text" value="test"/> View Details
15	Add a new BLF Directed Call Park	Common Device Configuration <input type="text" value="< None >"/> View Details
16	Call Park	Phone Button Template* <input type="text" value="Standard 8865NR SIP"/>
17	Call Pickup	Softkey Template <input type="text" value="< None >"/>
18	CallBack	Common Phone Profile* <input type="text" value="Standard Common Phone Profile"/> View Details
19	Do Not Disturb	Calling Search Space <input type="text" value="< None >"/>
20	Group Call Pickup	AAR Calling Search Space <input type="text" value="< None >"/>
21	Hunt Group Logout	Media Resource Group List <input type="text" value="MRGL_SecureCFB"/>
22	Intercom [1] - Add a new Intercom	User Hold MOH Audio Source <input type="text" value="< None >"/>
23	Malicious Call Identification	Network Hold MOH Audio Source <input type="text" value="< None >"/>
24	Max M... Config...	Location* <input type="text" value="Hub_None"/>
		AAR Group <input type="text" value="< None >"/>
		User Locale <input type="text" value="< None >"/>

分配媒体资源组列表

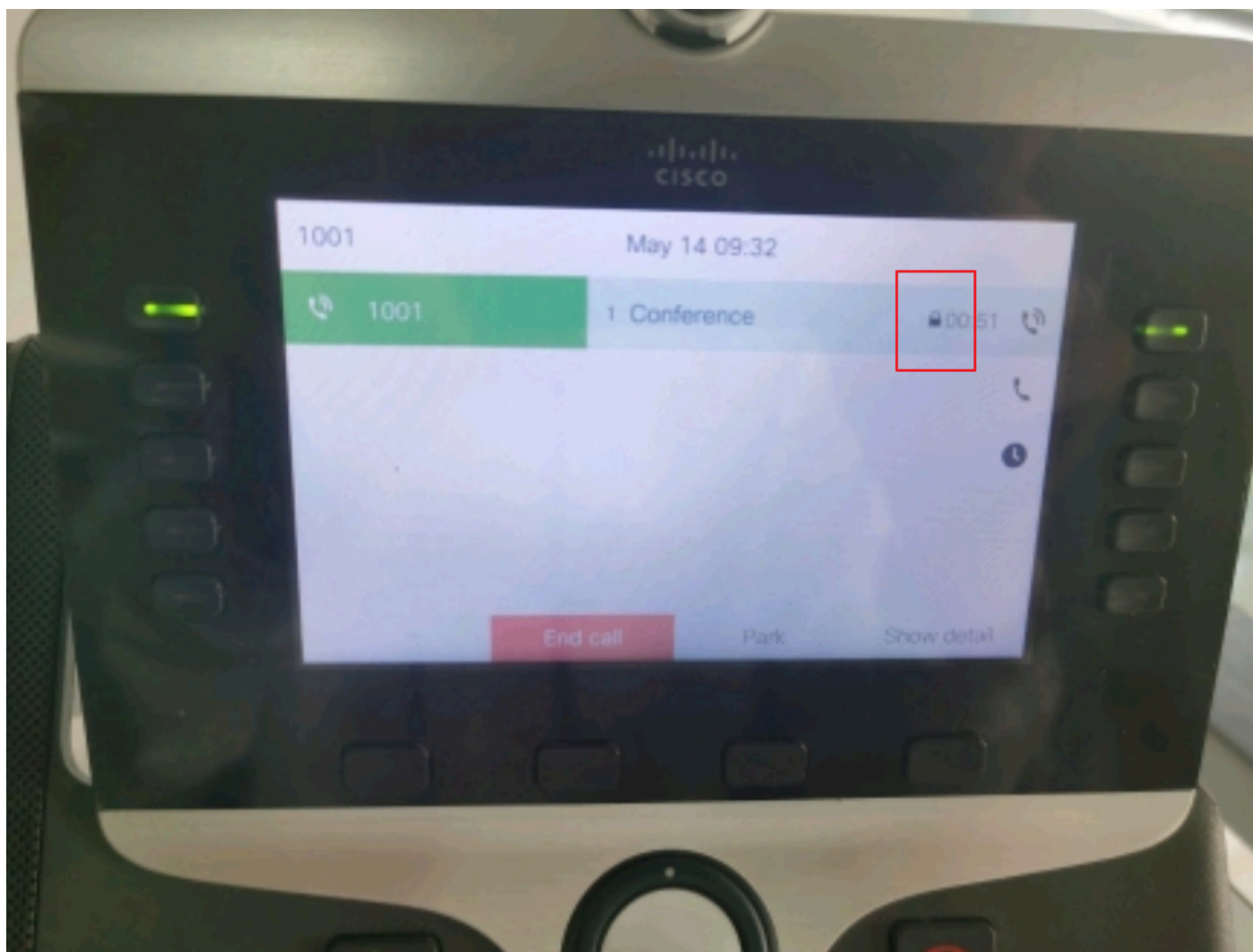
验证

IP电话1带DN 1001、IP电话2带DN 1002、IP电话3带DN 1003。

测试步骤。

1. 1001呼叫1002。
2. 1001按会议软键并呼叫1003。
3. 1001新闻发布会软键让安全临时会议参与进来。

Cisco IP电话显示会议安全图标以表示呼叫已加密。



测试调用已加密

故障排除

通过RTMT收集下一个信息。

Cisco CallManager (calllogs提供有关呼叫的信息 , sdi文件夹包含CUCM跟踪) 。

从SDL跟踪中可以看到，当1001按会议软键向会议1002和1003时，1001会发送SIP REFER消息。

00018751.002 |17:53:18.056 | 应用信息 |SIPTcp - wait_SdlReadRsp : 从2039字节的端口51320索引7上的x.x.x.x传入的SIP TCP消息：

[587 , NET]

请参阅sip : CUCMPUB15 SIP/2.0

通过 : SIP/2.0/TLS x.x.x.x : 51320 ; branch=z9hG4bK4d786568

发件人 : "1001" <sip : 1001@x.x.x.x> ; tag=a4b439d38e15003872a7c133-28fd5212

收件人 : <sip : CUCMPUB15>

呼叫ID : a4b439d3-8e150010-2f865ab1-7160f679@x.x.x.x

会话

ID : b14c8b6f00105000a000a4b439d38e15 ; remote=00000000000000000000000000000000

日期 : 2024年5月14日星期二09:53:17 GMT

CSeq : 1000参考

用户代理 : Cisco-CP8865NR/14.2.1

接受 : application/x-cisco-remotecc-response+xml

过期时间 : 60

最大转发数 : 70

联系人 : <sip : 8a854224-e17e-93da-8e71-6a2796f28fc7@x.x.x.x:51320 ; transport=tls> ; +u.sip ! devicename.ccm.cisco.com="SEPA4B439D38E1500102F865AB17160F679"

推荐人 : "1001"<sip : 1001@x.x.x.x>

请参阅 : cid : 3e94126b@x.x.x.x

内容ID : <3e94126b@x.x.x.x>

允许 : ACK、BYE、CANCEL、INVITE、NOTIFY、OPTIONS、REFER、REGISTER、UPDATE、SUBSCRIBE

内容长度 : 1069

内容类型 : application/x-cisco-remotecc-request+xml

Content-Disposition : session ; handling=required

< ? xml version="1.0" encoding="UTF-8" ? >

<x-cisco-remotecc-request>

<softkeyeventmsg>

<softkeyevent>会议</softkeyevent>

<dialogid>

<callid>a4b439d3-8e150007-1991b55f-00f9dcf7@x.x.x.x</callid>

<localtag>a4b439d38e1500333f1eb5d4-68656916</localtag>

<remotetag>171-ca425666-d5e7-42aa-a428-23dde46063a5-17600290</remotetag>

</dialogid>

<linenumber>0</linenumber>

<participantnum>0</participantnum>

<consultdialogid>

<callid>a4b439d3-8e150008-415a60f5-7c35c82d@x.x.x.x</callid>

<localtag>a4b439d38e15003562c2c59a-69dbf571</localtag>

<remotetag>176-ca425666-d5e7-42aa-a428-23dde46063a5-17600292</remotetag>

</consultdialogid>

<state>>false</state>

<joindialogid>

<callid></callid>

<localtag></localtag>

<remotetag></remotetag>

</joindialogid>

<eventdata>

<invocationtype>explicit</invocationtype>

</eventdata>

<userdata></userdata>

<softkeyid>0</softkeyid>

<applicationid>0</applicationid>

</softkeyeventmsg>

</x-cisco-remotecall-request>

00018751.003 |17:53:18.056 | 应用信息 |SIPTcp - SignalCounter = 300

然后，CUCM执行数字分析，最后路由到设备SecureCFB。

```
00018997.000 |17:53:18.134 |SdlSig |CcRegisterPartyB |tcc_register_party_b
|Cdcc(1,100,39,7) |Cc(1,100,38,1) |1,100,251,1.33^*^* |[R : N-
H : 0 , N : 2 , L : 0 , V : 0 , Z : 0 , D : 0] CI=17600297 CI.branch=0 CSS=AdjunctCSS=
cssIns=0 aarCSS= aarDev=F FQDN=pi=0si1 CallRef=0 OLC=1 Name=locale : 1名称 : 4
Unicode名称 : pi : 0 encodeType=10 qsig-encodeType=10 ConnType=3 Xfer模式8 ConnTime=3
nwLoc=0IpAddrMode=0 ipAddrType=0 ipv4=x.x.x.x : 0 region=Default capCount=6 devType=1
mixerCId=16778218 mediaReq=0 portToPort.loc=0 MOH.MRGLPkid= MOH.userHoldID=0
MOH.netHoldID=0 MOH.supp=1 devName=SECURECFBmobileDev Name=
origEMCCallingDevName= mobilePartyNumber=pi=0si1 mobileCallType=0 ctiActive=F
ctiFarEndDev=1 ctiCCMId=1 devCepn=38281c14-d78f-46d6-8199-63297bcfddae lineCepn=
activeCaps=0 VideoCall=F MMUpdateCapMask=0x3e MMCap=0 x1 SipConfig : BFCPAllowed=F
IXAllowed=F devCap=0 CryptoCapCount=6 secure=3 loginId= UnicodeName :
retriedVideo=FFromTag=ToTag=CallId= UAPortFlag=F wantDTMFRecep=1 provOOB=0 supp
DTMF=1 DTMF Cfg=1 DTMF PT=() DTMF reqMed=1 is prefAltScript=F cdpnPatternUsage=2
audioPtyId=0 doNotAppendLineCSS=F callingDP= BCUpdate=0 ccBearCap.itc=0
ccBearCap.itr=0 protected=1 flushCapIns=0 geolocInfo=nullPkid= locName=
deductBW=FateShareId=
videoTrafficClass=UnspecientbridgeParticipantParticipantBridgeParticipant ID callingUsr=
remoteClusterID= isEMCCDevice=F dtmCall=F dtmPrimaryCI=0 dtmMediaFPid=(0,0 , 0,0)
dtmMcNodeId=0 dtmMTPForDTMFTranslation=F emc=T QSIGIMERoute=Eo=0 eoUpdt=1
vCTCUpdt=1 honorFowor荣誉升级=1Final calledPartition= cTypeUpdt=0 BibEnabled=0
RecordingQSIGAPDUSupported=F FarEndDeviceName=LatentCaps=null icidVal= icidGenAddr=
oioi= tioi= ptParams= CAL={v=-1 , m=-1 , tDev=F , res=F , devType=0}
displayNameUpdateFieldFlag=0 CFBCtrlSecIcon=FBeforeAnn F外部演示信息[ pi=0si1locale :
1名称 : Unicode名称 : pi : 0 mlsCallExternal=F ] ControlProcessType=0
controlProcessTypeUpdateFieldFlag=1 origPi=0
```

相关信息

- https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/security/15_0/cucm_b_security-guide-release-15.pdf
- [思科技术支持和下载](#)



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