Configure Secure Ad Hoc Conference on CUCM 15

Contents

Introduction

This document describes the configuration of the Secure Ad Hoc Conference on CUCM 15.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- CUCM
- VG (Voice Gateway)
- Security concept

Components Used

The information in this document is based on these software and hardware versions:

- CUCM (mix mode) version: 15.0.0.98100-196
- CISCO2921 version: 15.7(3)M4b (use as CA and Secure Conference Bridge)
- NTP Server
- 3 8865NR IP Phone

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

Task 1. Configure Secure Conference Bridge and register to CUCM.

Step 1. Configure Public key infrastructure server and Trust Point.

Step 1.1. Configure the NTP server and HTTP server.

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

Step 1.2. Configure Public key infrastructure server.

```
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
```

Step 1.3. Configure Trust Point for testCA.

```
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
```

Step 1.4. Wait around 30 seconds, then issue the command **no shutdown** in order to enable testCA server.

```
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.
```

Step 2. Configure Trust Point for Secure Conference Bridge and register it to testCA.

Step 2.1. Configure Trust Point for Secure Conference Bridge and name it 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
```

Step 2.2. Authenticate SecureCFB and type 'yes' in order to accept the certificate.

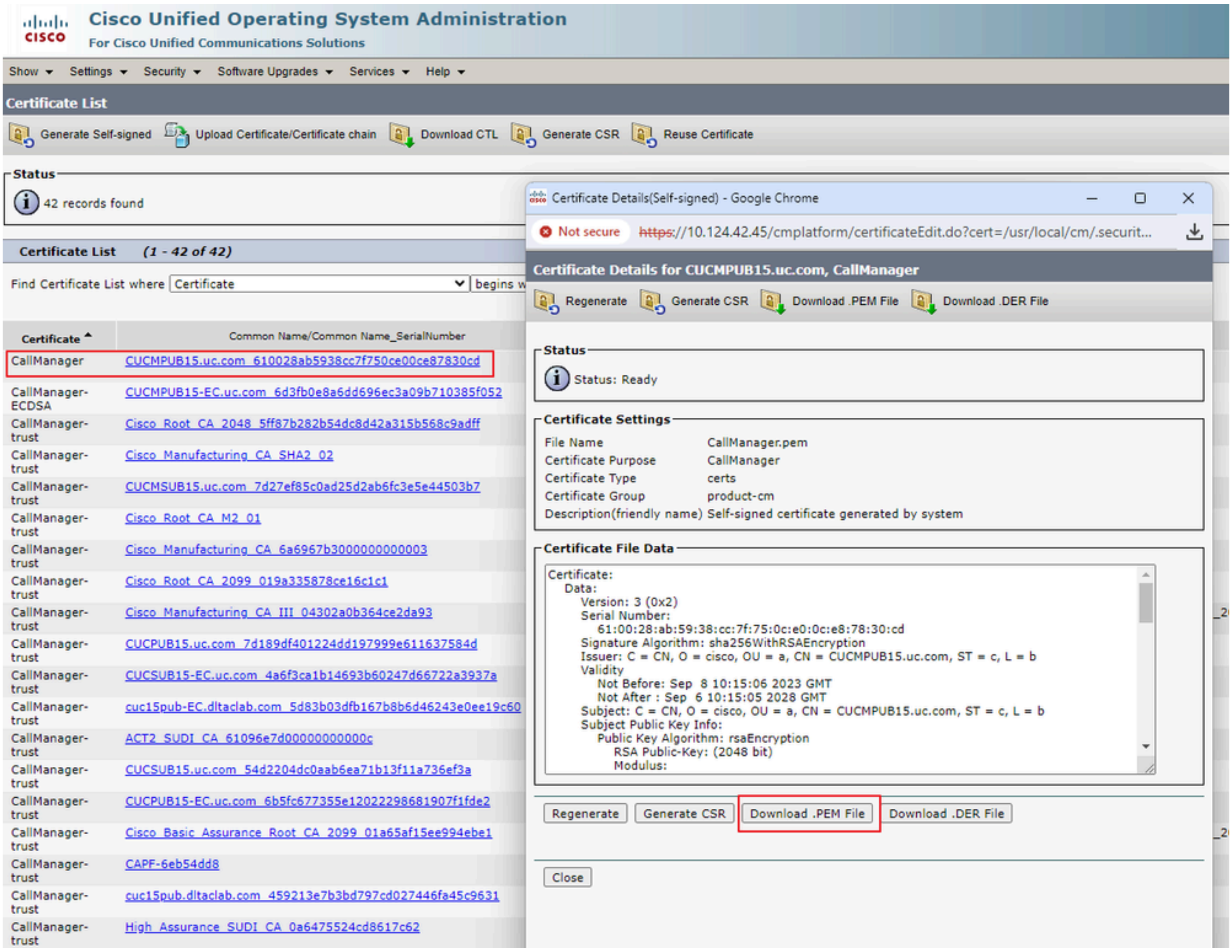
```
VG-CME-1(config)#crypto pki authenticate SecureCFB
Certificate has the following attributes:
       Fingerprint MD5: 383BA13D C37D0E5D 9E9086E4 8C8D1E75
      Fingerprint SHA1: 6DB8F323 14BBFBFF C36C224B B3404513 2FDD97C5

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

Step 2.3. Enroll SecureCFB and set a password.

```
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' commandwill show the fingerprint.
```

Step 3. Configure Trust Point for CUCM on Secure Concerence Bridge.

Step 3.1. Download the CallManager certificate from CUCM and copy the **pem** file (**Cisco Unified OS Administration** > **Security** > **Certificate Management**).


Cisco Unified Operating System Administration
For Cisco Unified Communications Solutions
Show ▾ Settings ▾ Security ▾ Software Upgrades ▾ Services ▾ Help ▾
Certificate List
Generate Self-signed
Upload Certificate/Certificate chain
Download CTL
Generate CSR
Reuse Certificate

Status

42 records found

Certificate List (1 - 42 of 42)

Find Certificate List where Certificate begins w

Certificate ▲	Common Name/Common Name_SerialNumber
CallManager	CUCMPUB15.uc.com_610028ab5938cc7f750ce00ce87830cd
CallManager-ECDSA	CUCMPUB15-EC.uc.com_6d3fb0e8a6dd696ec3a09b710385f052
CallManager-trust	Cisco_Root_CA_2048_5ff87b282b54dc8d42a315b568c9adff
CallManager-trust	Cisco_Manufacturing_CA_SHA2_02
CallManager-trust	CUCMSUB15.uc.com_7d27ef85c0ad25d2ab6fc3e5e44503b7
CallManager-trust	Cisco_Root_CA_M2_01
CallManager-trust	Cisco_Manufacturing_CA_6a6967b3000000000003
CallManager-trust	Cisco_Root_CA_2099_019a335878ce16c1c1
CallManager-trust	Cisco_Manufacturing_CA_III_04302a0b364ce2da93
CallManager-trust	CUCPUB15.uc.com_7d189df401224dd197999e611637584d
CallManager-trust	CUCSUB15-EC.uc.com_4a6f3ca1b14693b60247d66722a3937a
CallManager-trust	cuc15pub-EC.dltaclab.com_5d83b03dfb167b8b6d46243e0ee19c60
CallManager-trust	ACT2_SUDI_CA_61096e7d00000000000c
CallManager-trust	CUCSUB15.uc.com_54d2204dc0aab6ea71b13f11a736ef3a
CallManager-trust	CUCPUB15-EC.uc.com_6b5fc677355e12022298681907f1fde2
CallManager-trust	Cisco_Basic_Assurance_Root_CA_2099_01a65af15ee994ebe1
CallManager-trust	CAPF-6eb54dd8
CallManager-trust	cuc15pub.dltaclab.com_459213e7b3bd797cd027446fa45c9631
CallManager-trust	High_Assurance_SUDI_CA_0a6475524cd8617c62

Certificate Details(Self-signed) - Google Chrome
Not secure https://10.124.42.45/cmplatform/certificateEdit.do?cert=/usr/local/cm/.securit...
Certificate Details for CUCMPUB15.uc.com, CallManager
Regenerate
Generate CSR
Download .PEM File
Download .DER File

Status

Status: Ready

Certificate Settings

File Name CallManager.pem
Certificate Purpose CallManager
Certificate Type certs
Certificate Group product-cm
Description(friendly name) Self-signed certificate generated by system

Certificate File Data

```
Certificate:
    Data:
        Version: 3 (0x2)
        Serial Number:
            61:00:28:ab:59:38:cc:7f:75:0c:e0:0c:e8:78:30:cd
        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:
```

Download CallManager certificate

Step 3.2. Configure Trust Point, paste the **pem** file, and type **yes** in order to accept the certificate.

```
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
MQswCQYDVQQGEwJDTjEOMAwGA1UECgwFY2lzY28xCjAIBgNVBAsMAWExGTAXBgNV
BAMMEENVQ01QVUIxNS51Yy5jb20xCjAIBgNVBAgMAWMxCjAIBgNVBAcMAWIwHhcN
MjMwOTA4MTAxNTA2WhcNMjgwOTA2MTAxNTA1WjBcMQswCQYDVQQGEwJDTjEOMAwG
A1UECgwFY2lzY28xCjAIBgNVBAsMAWExGTAXBgNVBAMMEENVQ01QVUIxNS51Yy5j
b20xCjAIBgNVBAgMAWMxCjAIBgNVBAcMAWIwggEiMA0GCSqGSIb3DQEBAQUAA4IB
DwAwggEKAoIBAQD4Xfdl9MWY/bSDXzGjtd301vYqKdRpqVYpWD7E+NrH7zRgHhz+
M7gAeqdRCSC/iKUF2g44rCRjlM0C/9xN3pxvOnNequg/Tv0wjpHm0X2O4x0daH+F
AwElWNYZZvUQ6+2xtkTuUcqeXDnnbS6fLIadP/CfgQwKX5U1Ec575ypUet6Fp2n2
4UouLQ5iFEMmX9gzGR7YKjeE+t61X5NmvYc6IyP8MH77sgvti7+xJurlJUnvBFG2
ELXM0rL7uUoqw/rjMT6XxK+0Ft4bkOsVnjI+vOUUBUoTcbFFrsfrcOnVQjPJhHue
MLAaRzkDo5p1xo+UnNgv2uSH9HAID/NS1VTDAgMBAAGjYTBfMAsGA1UdDwQEAwIC
tDAdBgNVHSUEFjAUBggrBgEFBQcDAQYIKwYBBQUHAwIwHQYDVR0OBBYEFKrIBeQi
OF6Hp0QCUfVYzKWiXx2hMBIGA1UdEwEB/wQIMAYBAf8CAQAwDQYJKoZIhvcNAQEL
```

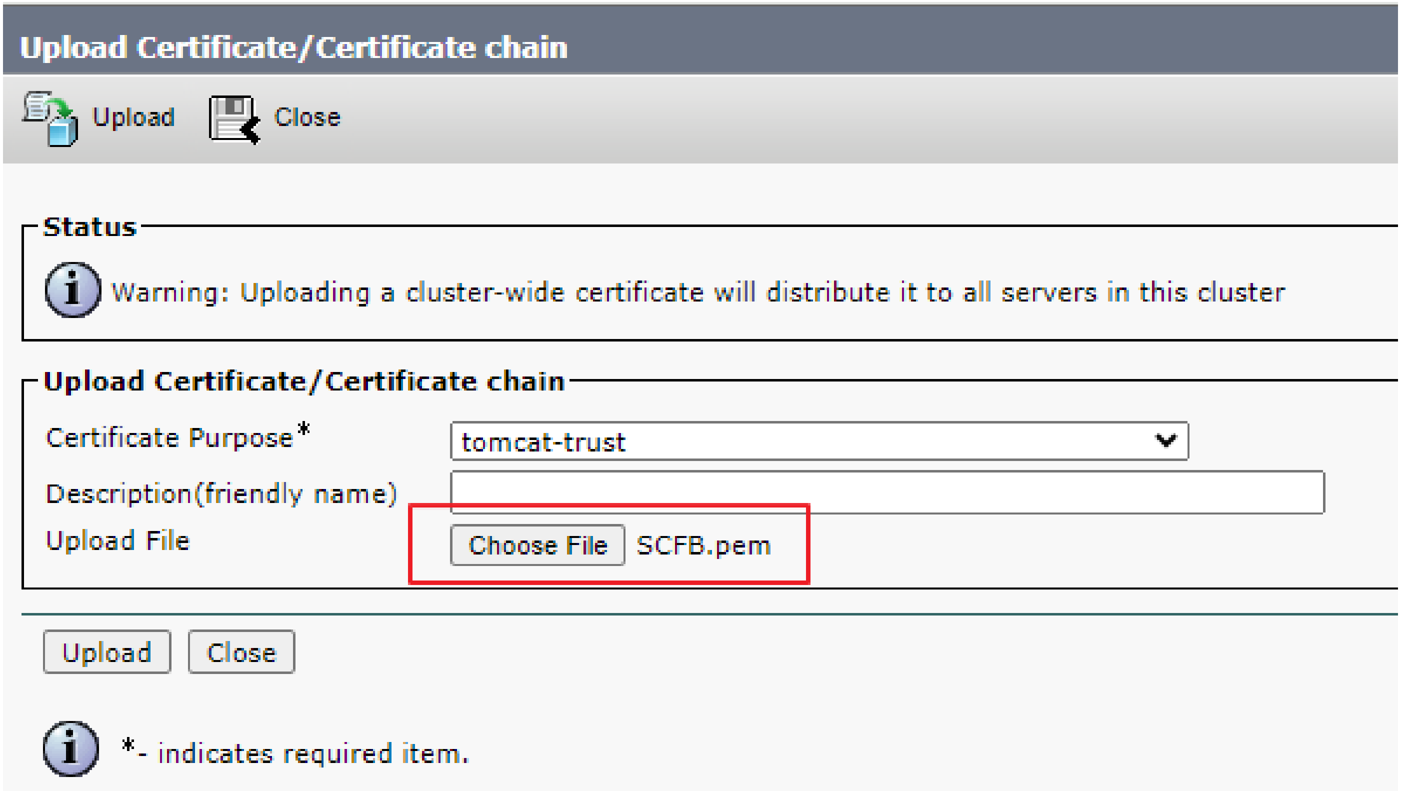
```
BQADggEBAJSw2vOwJ4UatmkaFpeLc9B1YZr8X6BkxBY1skW2qOLps61ysjDG61VQ
GjxpPLMY1ISyIVr5dqGyjcaGLCUDUUcu66zEPxFNGnSYimBBhGR6NrDyo4YjOk+S
1I3TfRK+2F9NMhW2xTvuygoXLtyibvrZULhNo3vDPYQdTe1z54oQNU4BD8P+MCq9
+MzltCXEpVU6Jp71zC5HY+GF+Ab/xKBNzDjyY+OT8BFiO2wC8aaEaBvByNRzCSPD
MpU5cRaKVip2pszoR9mG3Rls4CkK93OX/OzFqkIemDmY5WcylcCsybxAMbjdBDY9
err7iQZzjoW3eD5HxJKyvSffjDRtqg8=
-----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
```

Step 4. Configure CUCM in order to trust the Secure conference bridge.

Step 4.1. Copy the General Purpose Certificate, and save it as a **SecureCFB.pem** file. Copy the CA certificate, and save it as **testCA.pem** file.

```
VG-CME-1(config)#crypto pki export SecureCFB pem terminal
% CA certificate:
-----BEGIN CERTIFICATE-----
MIIB+zCCAWSgAwIBAgIBATANBgkqhkiG9w0BAQQFADARMQ8wDQYDVQQDEwZ0ZXN0
Q0EwHhcNMjQwNTEwMDg0NDI3WhcNMjcwNTEwMDg0NDI3WjARMQ8wDQYDVQQDEwZ0
ZXN0Q0EwgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAM2LqiIs9nddFOx/YN7y
hhp9KGl2Eb8Zxq9E2mXfKpHOpbcGEic5ain+rXf1qauA8/pNYwvBurAZm2pWzFHQ
q4qGL8KWDwJCPTwPI5rJOJAMIYzMh4WdQerWP4iEI2LGtxCb1q8b3w0wJE0Q2OG4
4kDSeArkKe0cb26WZC1oVK1jAgMBAAGjYzBhMA8GA1UdEwEB/wQFMAMBAf8wDgYD
VR0PAQH/BAQDAgGGMB8GA1UdIwQYMBaAFJOFqPH+VBcd01d9SzCphNkWGqcWMB0G
A1UdDgQWBBSThajx/lQXHdNXfUswqYTZFhqnFjANBgkqhkiG9w0BAQQFAAOBgQAS
V8x9QjJ5pZKmezDYvxPDFe4chIkCD7o8JOcutSdAi7H+2Z+GO4CF55EDTZdLZPtn
GwQ01gbtDX07PTrOYRWOSZLSJSdPQlTJ3WDNr+NBhZjfe6EzfsLasD8L0VYG96GX
vjRQbdRmqbrG5H0ZUUz0cu93AXjnRl2nLoAkKcrjcQ==
-----END CERTIFICATE-----

% General Purpose Certificate:
-----BEGIN CERTIFICATE-----
MIIB6jCCAVOgAwIBAgIBAjANBgkqhkiG9w0BAQUFADARMQ8wDQYDVQQDEwZ0ZXN0
Q0EwHhcNMjQwNTEwMDg1NTA4WhcNMjcwNTEwMDg0NDI3WjAUMRIwEAYDVQQDEwlT
ZWN1cmVDRkIwgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBALhk11yOPnUNtjEQ
JLJIMPnoc6Zb9vDrGoIlMdsz/cZwKTiGCs9PYYxwcPBExOOR+XrE9MmEO7L/tR6n
NkKz84ddWNz0gg6wHWM9gcje22bIsIeU6UCxo4ovra2pExXphusqEmg5yLQwyeJc
5JqcoAYXuRpnKLTfn5Nnh6iUCsWrAgMBAAGjTzBNMAsGA1UdDwQEAwIFoDAfBgNV
HSMEGDAWgBSThajx/lQXHdNXfUswqYTZFhqnFjAdBgNVHQ4EFgQU3y9zfDoTJ8WV
XIpX3wdcieq1zpkwDQYJKoZIhvcNAQEFBQADgYEABfaa6pqRaDyfpW/tu5pXBRHP
SfZzpv+4ktsjAiOG7oGJGT0RpnuiKCq+V2oucJBtWWAPbVx+ZBG3Eogi1c2GoDLK
yYvuaf9zBJHIcM5mv6x81qxLF7FKZaepQSYwsQUP50/uKXa0435Kj/CZoLpKhXR2
v/p2jzF9zyPIBuQGOEo=
-----END CERTIFICATE-----
```

Step 4.2. Upload **SecureCFB.pem** to CallManager-trust store on CUCM (**Cisco Unified OS Administration** > **Security** > **Certificate Management**).



Upload Certificate/Certificate chain

Status

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

Upload Certificate/Certificate chain

Certificate Purpose* tomcat-trust

Description(friendly name)

Upload File SCFB.pem

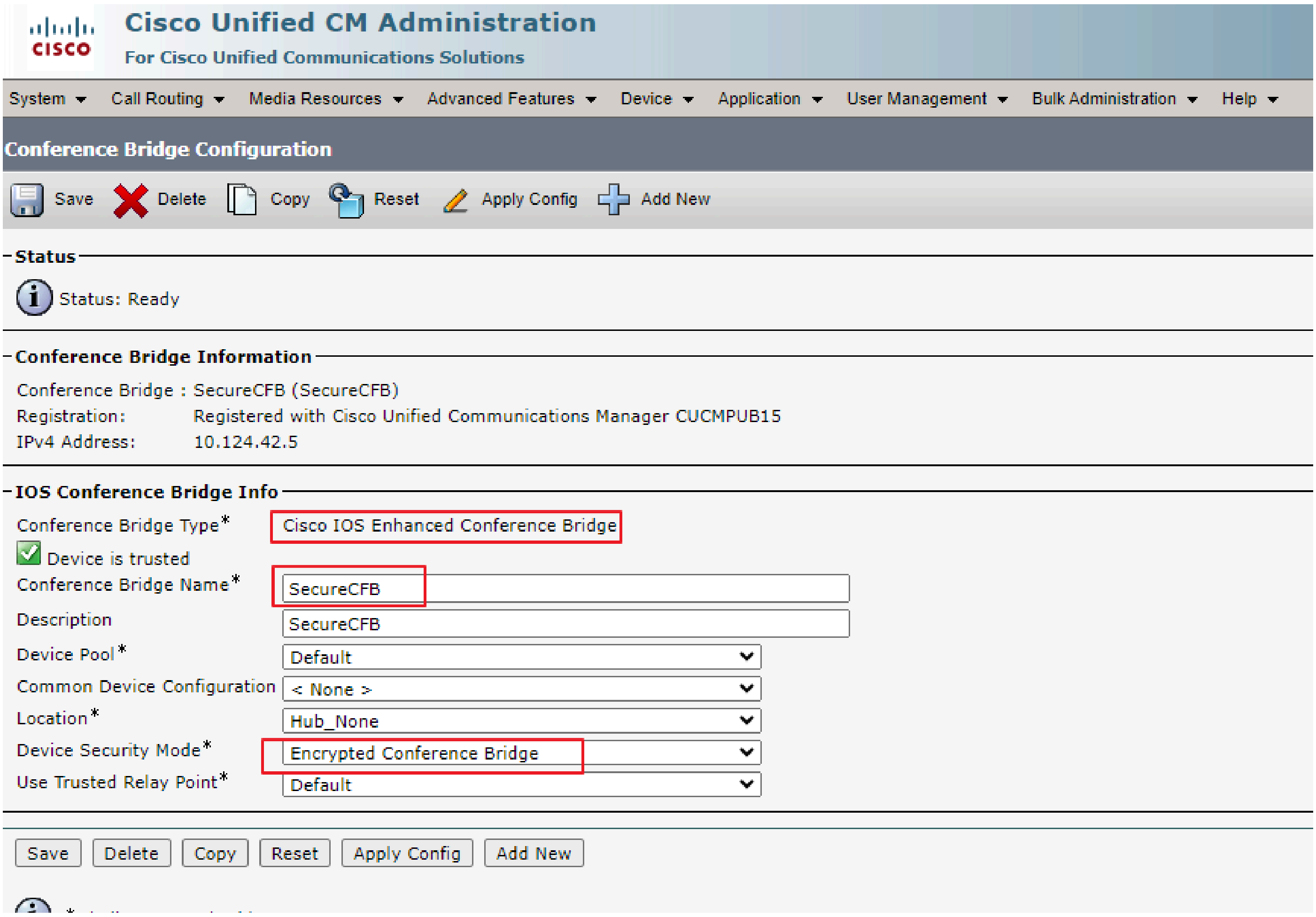
*- indicates required item.

Upload SecureCFB.pem

Step 5. Configure Secure Conference Bridge on VG.

```
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
```

Step 6. Configure Secure Conference Bridge on CUCM (**Cisco Unified CM Administration** > **Media Resources** > **Conference Bridge** > **Add New**).


Cisco Unified CM Administration
For Cisco Unified Communications Solutions
System | Call Routing | Media Resources | Advanced Features | Device | Application | User Management | Bulk Administration | Help
Save | Delete | Copy | Reset | Apply Config | Add New

Conference Bridge Configuration

Status

Status: Ready

Conference Bridge Information

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

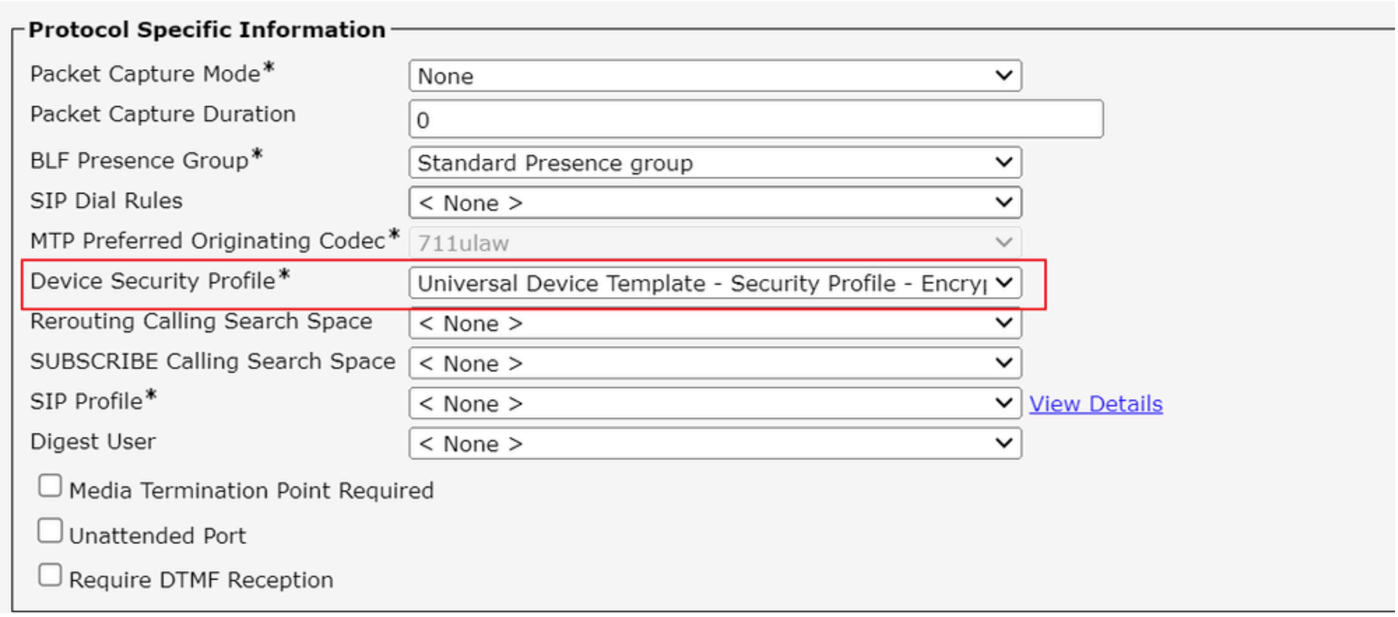
IOS Conference Bridge Info

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

Configure Secure Conference Bridge

Task 2. Register 3 8865NR IP Phones with security mode.

Set Device Security Profile to Encrypted mode on IP Phone.



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 - Encry
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	< None > View Details
Digest User	< None >

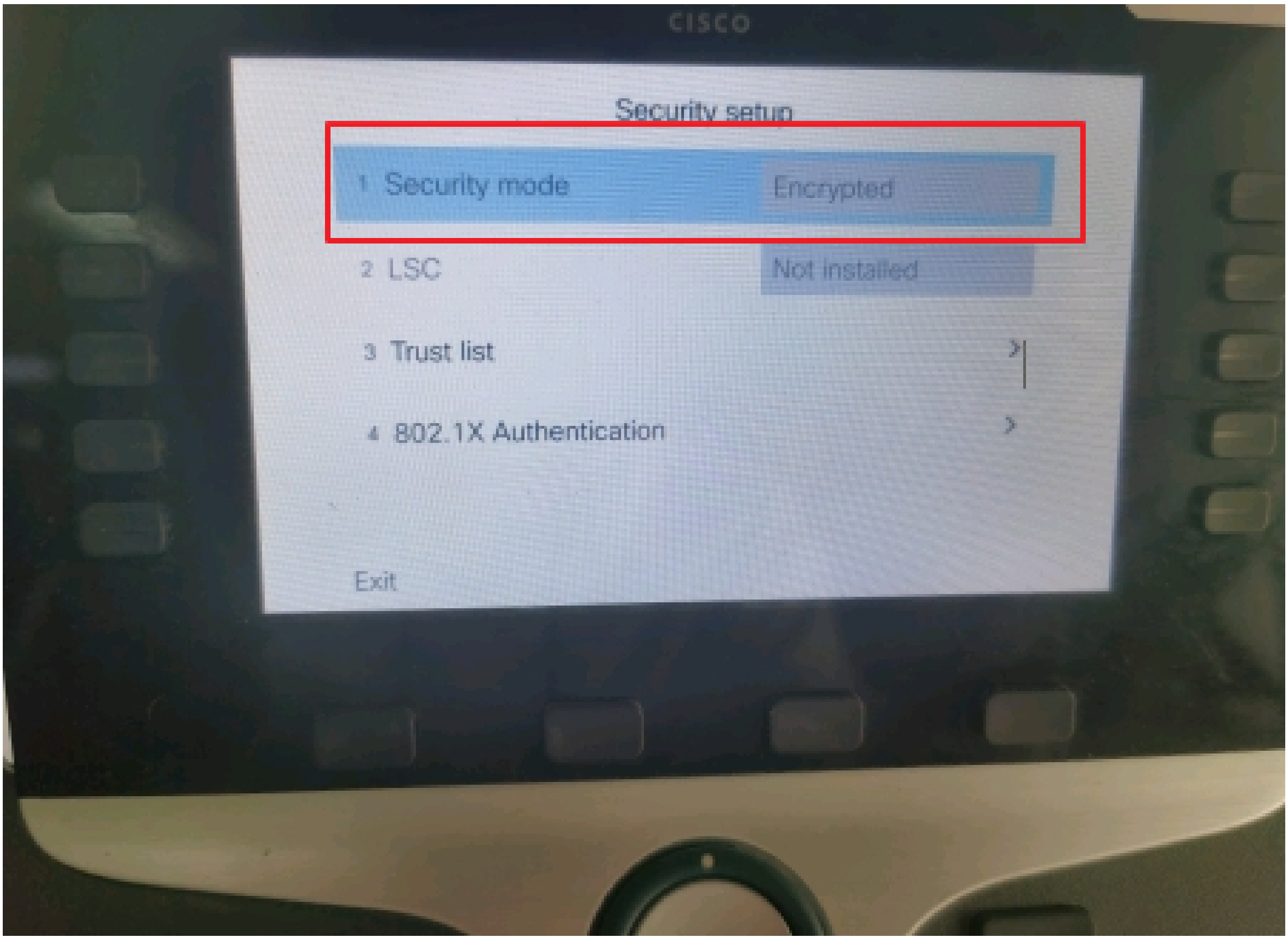
□ Media Termination Point Required

□ Unattended Port

□ Require DTMF Reception

Set Device Security Profile to Encrypted mode

IP Phone shows Security mode with Encrypted under **Admin settings** > **Security Setup**.



Security setup

1 Security mode Encrypted

2 LSC Not installed

3 Trust list

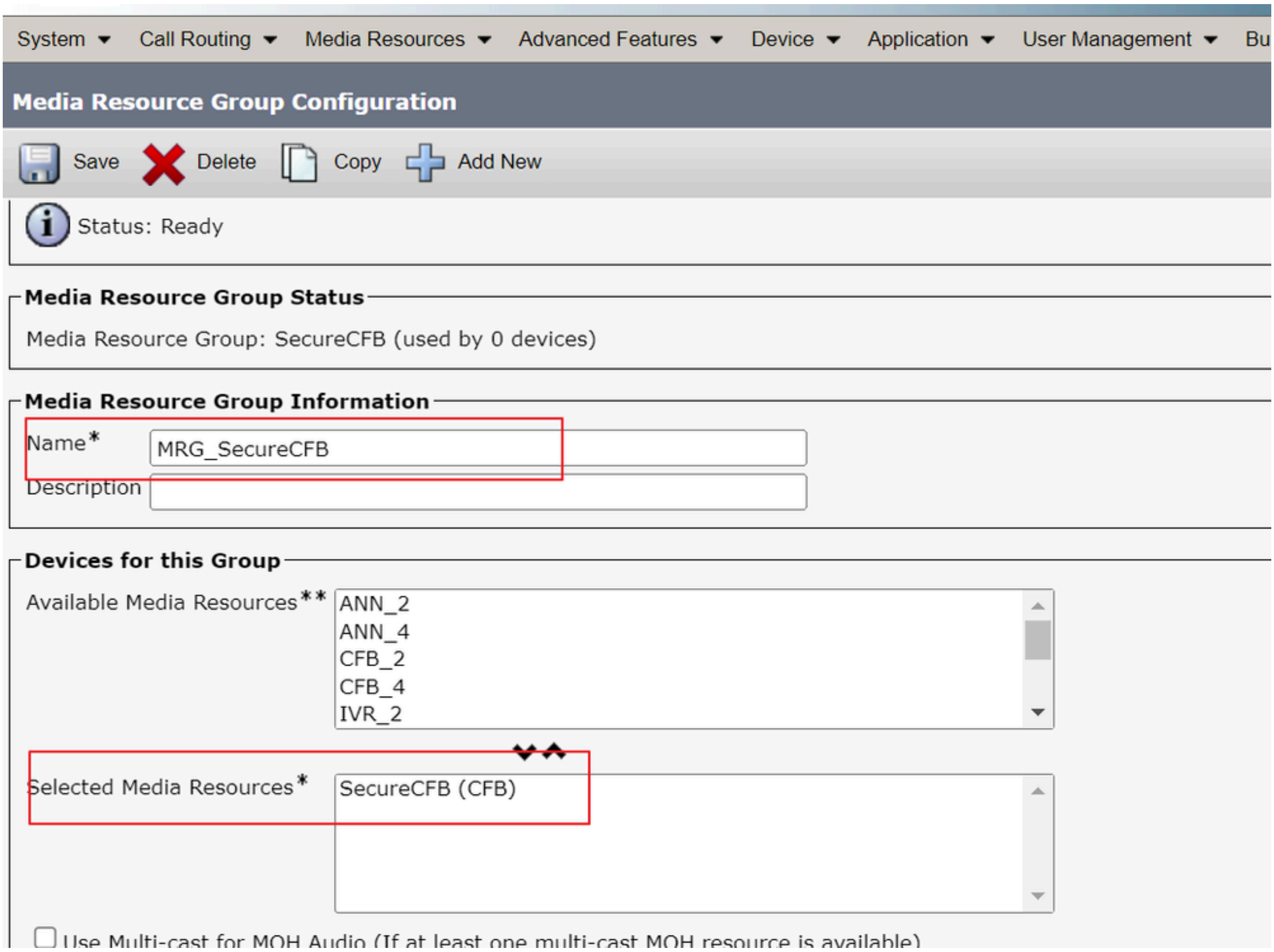
4 802.1X Authentication

Exit

Security mode was Encrypted

Task 3. Configure the Media Resource Group List with Secure Conference Bridge and assign it to the IP Phones.

Step 1. Create a Media Resource Group MRG_SecureCFB and assign SecureCFB to it (**Cisco Unified CM Administration > Media Resources > Media Resources Group**).


System ▾ Call Routing ▾ Media Resources ▾ Advanced Features ▾ Device ▾ Application ▾ User Management ▾ Bu
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* MRG_SecureCFB

Description

Devices for this Group

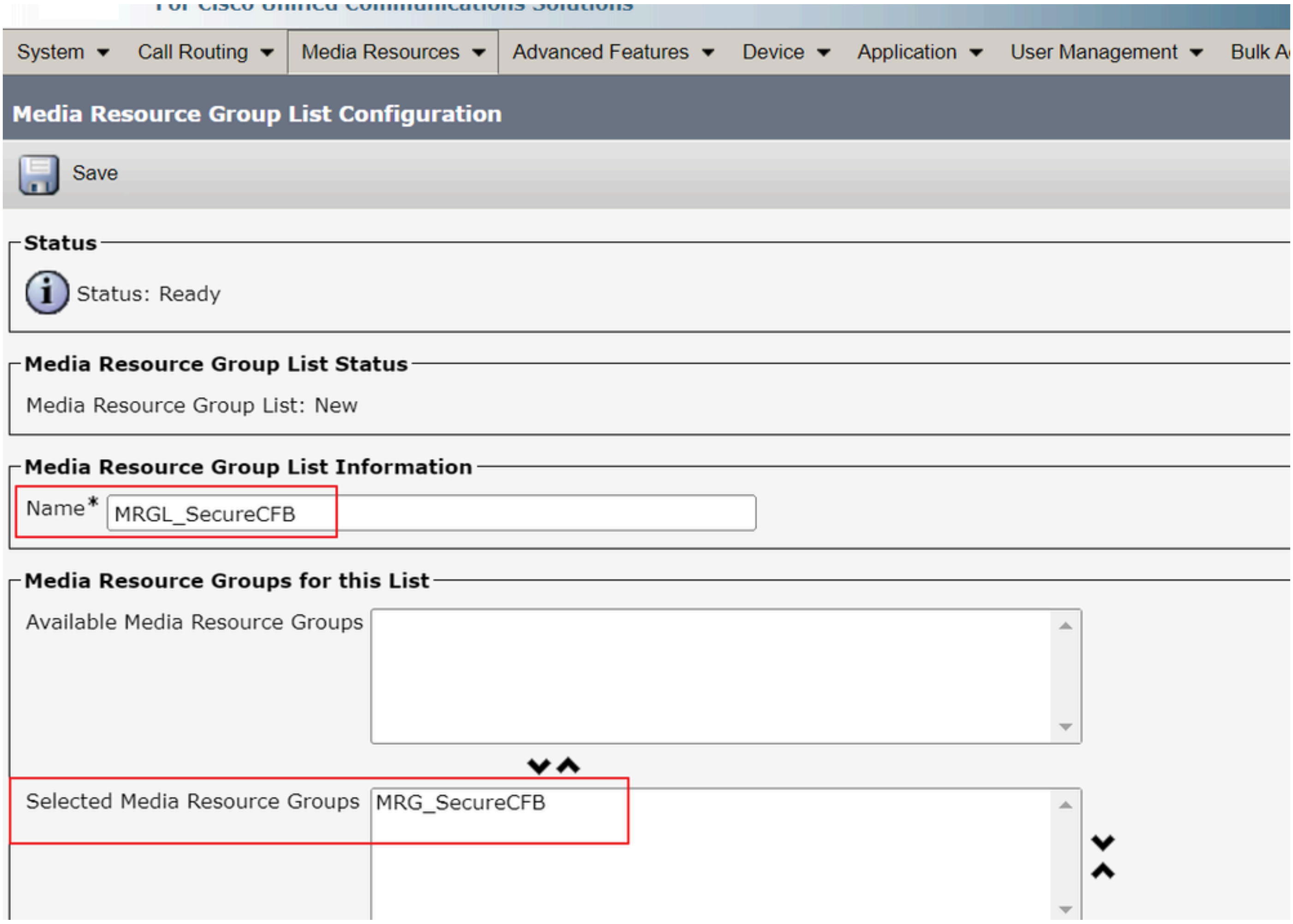
Available Media Resources** ANN_2 ANN_4 CFB_2 CFB_4 IVR_2

Selected Media Resources* SecureCFB (CFB)

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

Create a Media Resource Group MRG_SecureCFB

Step 2. Create a Media Resource Group List MRGL_SecureCFB and assign MRG_SecureCFB to it (**Cisco Unified CM Administration > Media Resources > Media Resources Group List**).



Media Resource Group List Configuration

Status

Status: Ready

Media Resource Group List Status

Media Resource Group List: New

Media Resource Group List Information

Name* MRGL_SecureCFB

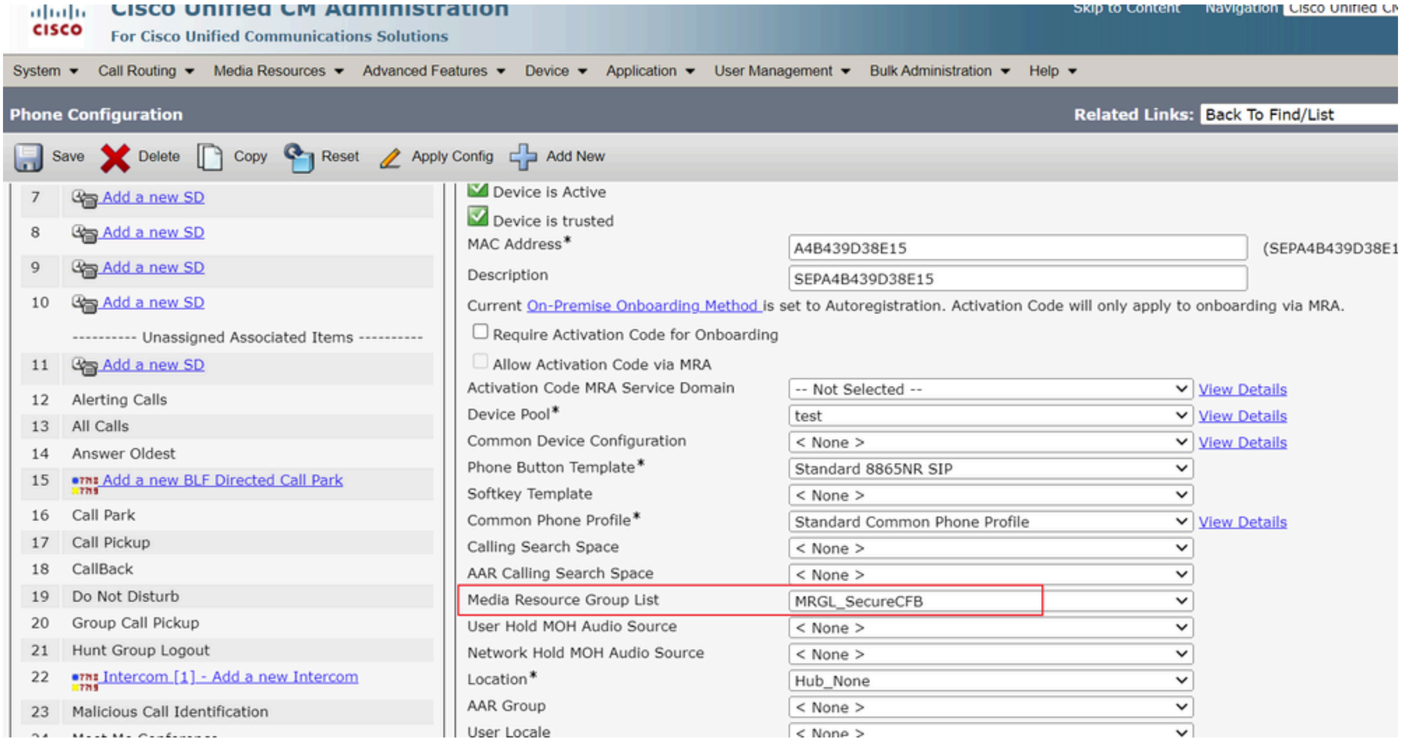
Media Resource Groups for this List

Available Media Resource Groups

Selected Media Resource Groups MRG_SecureCFB

Create a Media Resource Group List MRGL_SecureCFB

Step 3. Assign the Media Resource Group List MRGL_SecureCFB to all the 8865NR.



Phone Configuration

7	Add a new SD
8	Add a new SD
9	Add a new SD
10	Add a new SD
	---------- Unassigned Associated Items ----------
11	Add a new SD
12	Alerting Calls
13	All Calls
14	Answer Oldest
15	Add a new BLF Directed Call Park
16	Call Park
17	Call Pickup
18	CallBack
19	Do Not Disturb
20	Group Call Pickup
21	Hunt Group Logout
22	Intercom [1] - Add a new Intercom
23	Malicious Call Identification

☑ Device is Active

☑ Device is trusted

MAC Address*	A4B439D38E15	(SEPA4B439D38E1
Description	SEPA4B439D38E15	

Current On-Premise Onboarding Method is set to Autoregistration. Activation Code will only apply to onboarding via MRA.

☐ Require Activation Code for Onboarding

☐ Allow Activation Code via MRA

Activation Code MRA Service Domain	-- Not Selected --	View Details
Device Pool*	test	View Details
Common Device Configuration	< None >	View Details
Phone Button Template*	Standard 8865NR SIP	
Softkey Template	< None >	
Common Phone Profile*	Standard Common Phone Profile	View Details
Calling Search Space	< None >	
AAR Calling Search Space	< None >	
Media Resource Group List	MRGL_SecureCFB	
User Hold MOH Audio Source	< None >	
Network Hold MOH Audio Source	< None >	
Location*	Hub_None	
AAR Group	< None >	
User Locale	< None >	

Assign Media Resource Group List

Verify

IP Phone 1 with DN 1001, IP Phone 2 with DN 1002, IP Phone 3 with DN 1003.

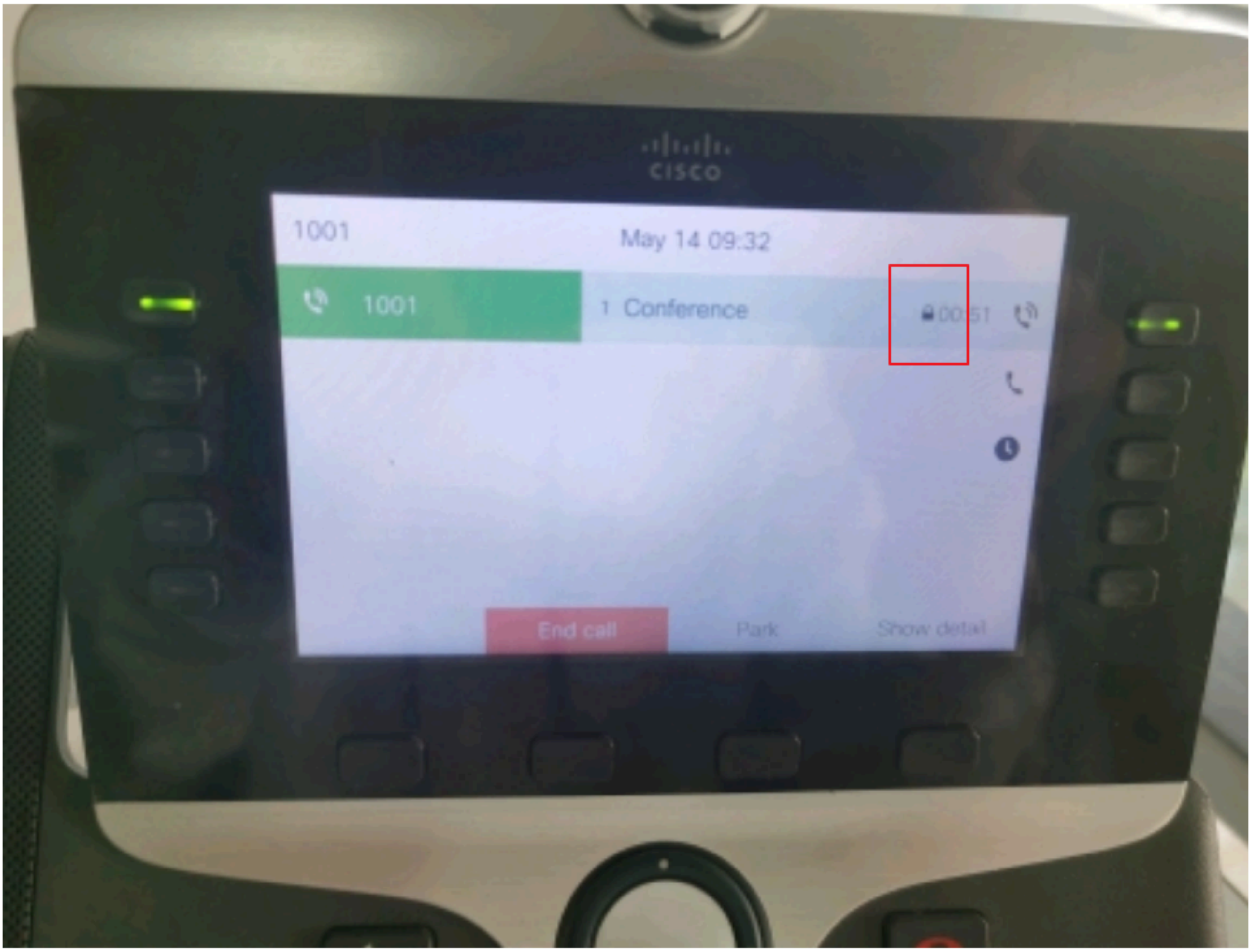
Test step.

1. 1001 call 1002.

2. 1001 press conference soft key and call 1003.

3. 1001 press conference soft key to involve the Secure Ad Hoc Conference.

Cisco IP Phones display a conference security icon in order to indicate the call was encrypted.



Test call was encrypted

Troubleshoot

Collect the next information via RTMT.

Cisco CallManager (calllogs gives information about the calls, sdl folder contains CUCM traces).

From the SDL trace, it is seen that 1001 sends an SIP REFER message when 1001 press conference soft key to conference 1002 and 1003.

```
00018751.002 |17:53:18.056 |AppInfo  |SIPTcp - wait_SdlReadRsp: Incoming SIP TCP message from x.x.x.x on port 51320 index 7 with 2039 bytes:

[587,NET]

REFER sip:CUCMPUB15 SIP/2.0

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

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

To: <sip:CUCMPUB15>

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

Session-ID: b14c8b6f00105000a000a4b439d38e15;remote=00000000000000000000000000000000

Date: Tue, 14 May 2024 09:53:17 GMT

CSeq: 1000 REFER

User-Agent: Cisco-CP8865NR/14.2.1

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

Expires: 60

Max-Forwards: 70

Contact: <sip:8a854224-e17e-93da-8e71-6a2796f28fc7@x.x.x.x:51320;transport=tls>;+u.sip!devicename.ccm.cisco.com="SEPA4B439D38E15"

Referred-By: "1001" <sip:1001@x.x.x.x>

Refer-To: cid:3e94126b@x.x.x.x

Content-Id: <3e94126b@x.x.x.x>

Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE,SUBSCRIBE

Content-Length: 1069

Content-Type: application/x-cisco-remotecc-request+xml

Content-Disposition: session;handling=required

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

<x-cisco-remotecc-request>

  <softkeyeventmsg>

    <softkeyevent>Conference</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-remotecc-request>
```

```
00018751.003 |17:53:18.056 |AppInfo  |SIPTcp - SignalCounter = 300
```

Then, CUCM does digit analysis and finally routes to device 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 Name:  4 UnicodeName:  pi: 0 encodeType=10 qsig-
encodeType=10 ConnType=3 XferMode=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=SECURECFB
mobileDevName= origEMCCCallingDevName= 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=0x1 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 isPrefAltScript=F cdpnPatternUsage=2 audioPtyId=0
doNotAppendLineCSS=F callingDP= BCUpdate=0 ccBearCap.itc=0 ccBearCap.l=0 ccBearCap.itr=0
protected=1 flushCapIns=0 geolocInfo=null locPkid= locName= deductBW=F fateShareId=
videoTrafficClass=Unspecified bridgeParticipantID callingUsr= remoteClusterID= isEMCCDevice=F
dtmCall=F dtmPrimaryCI=0 dtmMediaIFPid=(0,0,0,0) dtmMcNodeId=0 dtmMTPForDTMFTranslation=F
emc=T QSIGIMERoute=F eo=0 eoUpdt=1 vCTCUpdt=1 honorCodec=F honorUpdt=1
finalCalledPartition= 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=F connBeforeANN=F
External Presentation Info [ pi=0si1locale: 1 Name:  UnicodeName:  pi: 0 mIsCallExternal=F ]
ControlProcessType=0 controlProcessTypeUpdateFieldFlag=1 origPi=0
```

Related Information

- https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/security/15_0/cucm_b_security-guide-release-15.pdf
- Cisco Technical Support & Downloads

Note: Secure Conference Over Trunks and Gateways Unified Communications Manager supports secure conference over intracluster trunks (ICTs), H.323 trunks/gateways, and MGCP gateways; however, encrypted phones that are running release 8.2 or earlier revert to RTP for ICT and H.323 calls, and the media does not get encrypted. If a conference involves a SIPtrunk, the secure conference status is nonsecure. In addition, SIPtrunk signaling does not support secure conference notifications to off-cluster participants.