

Video Conferencing

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Last updated: November 10, 2017

Tasks

- Make sure R1 supports DSP resources so that 50% are dedicated to Voice and 50% are dedicated for Video.
- Register video conference bridges for HQ R1 Gateway so that the video conference bridge would work when initiating video conference from HQ Phone 2.
- Use CIF resolution, full frame-rate and bit rate 320 Kbps for video conferencing.
- Test video conference call from HQ Phone 2 to Site C Phone 2 and then video conference to PSTN via IP by dialing 88885555.

Configuration: [Click to collapse](#)

HQ Publisher

Media Resources > Conference Bridge

Conference Bridge Configuration

Save Delete Copy Reset Apply Config Add New

Status
Status: Ready

Conference Bridge Information
Conference Bridge : VideoConf (VideoConf)
Registration Registered with Cisco Unified Communications Manager 11.100.64.12
IP Address 11.102.64.254

IOS Conference Bridge Info
Conference Bridge Type* Cisco IOS Homogeneous Video Conference Bridge
 Device is trusted
Conference Bridge Name* VideoConf
Description VideoConf
Device Pool* DP-R1-SIP
Common Device Configuration < None >
Location* Hub_None
Use Trusted Relay Point* Default

Save Delete Copy Reset Apply Config Add New

Media Resources > Media Resource Group

Media Resource Group Configuration

Save Delete Copy Add New

Status
i Status: Ready

Media Resource Group Status
 Media Resource Group: MRG-HQ-Video (used by 14 devices)

Media Resource Group Information
 Name* MRG-HQ-Video
 Description

Devices for this Group
 Available Media Resources**
 ANN_2
 ANN_3
 CFB_2
 CFB_3
 HQ-MTP

Selected Media Resources*
 VideoConf (CFB)

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

Save Delete Copy Add New

Media Resources > Media Resource Group List (On Existing MRGL-HQ Add the Media Resource Group MRG-HQ-Video)

Media Resource Group List Configuration

Save Delete Copy Add New

Status
i Status: Ready

Media Resource Group List Status
 Media Resource Group List: MRGL-HQ (used by 14 devices)

Media Resource Group List Information
 Name* MRGL-HQ

Media Resource Groups for this List
 Available Media Resource Groups
 MRG-SC

Selected Media Resource Groups
 MRG-HQ-Video
 MRG-HQ

Save Delete Copy Add New

System > Device Pool (Assign the MRGL to the following Device Pools)

<input type="checkbox"/>	DP-Phases	Default	Secom-Intex	CMLocal	
<input type="checkbox"/>	DP-S1-SIP	Default	Secom-F1-SIP	CMLocal	
<input type="checkbox"/>	DP-S2-Cube	Default	Secom-Intex	CMLocal	

On R1 Gateway

```

voice-card 0
  voice-service dsp-reservation 50
!
dspfarm profile 3 conference video homogeneous
  codec ilbc
  codec g711ulaw
  codec g711alaw
  codec g729ar8
  codec g729abr8
  codec g729r8
  codec g729br8
  codec h264 cif frame-rate 30 bitrate 320kbps
  maximum sessions 5
  associate application SCCP
!
sccp ccm group 1
  associate profile 3 register VideoConf
!
no sccp
sccp

```

On R3 Gateway

```

voice service voip
  sip
  asymmetric payload full

```

Note:

Make sure R2 Cube dial peers to 4... has dtmf sip-kpml or site C phone will not see video.
Also you will not be able to call 4001 after putting pass-thru on R3.

Verification

Make a call from HQ Phone 1 first to Site C Phone 2 and then conference PSTN by dialing 88885555

```

R1#show sccp connections
sess_id  conn_id  stype mode    codec  sport rport ripaddr conn_id_tx
33555619 33555468  vcf  sendrecv h264   16466 16462 11.11.11.1 33555469
33555619 33555467  vcf  sendrecv ilbc  16464 16460 11.11.11.1
33555619 33555465  vcf  sendrecv h264   16456 30730 11.102.64.49 33555466
33555619 33555464  vcf  sendrecv ilbc  16454 27526 11.102.64.49
33555619 33555462  vcf  sendrecv h264   16452 16432 11.102.65.254 33555463
33555619 33555461  vcf  sendrecv g729   16450 16430 11.102.65.254

Total number of active session(s) 1, and connection(s) 6
R1#

```

```
R1#show call active video brief
```

```
Telephony call-legs: 0
SIP call-legs: 2
H323 call-legs: 0
Call agent controlled call-legs: 0
SCCP call-legs: 3
Multicast call-legs: 0
Total call-legs: 5
```

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