

Cisco

Exam 642-427

Troubleshooting Cisco Unified Communications v8.0 (TVOICE v8.0)

Version: 31.0

[Total Questions: 301]

Topic break down

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Topic 1, Volume A**Question No : 1 - (Topic 1)**

The G.729 codec is configured for branch office phones that call across the WAN link to headquarters. Cisco Unity Connection in headquarters is configured to accept only the G.711 codec. Branch users currently cannot access their voicemail.

Which solution is best to enable voicemail for branch users and minimize WAN bandwidth utilization per call?

- A. Enable transcoding resources on the branch office gateway.
- B. Enable transcoding resources on the headquarters gateway.
- C. Enable transcoding resources on Cisco Unified Communications Manager.
- D. Enable transcoding resources on Cisco Unity Connection.

Answer: B

Question No : 2 - (Topic 1)

Five users from a branch office and two users from headquarters frequently engage in conference calls with each other. Their clients call in from the PSTN. WAN bandwidth is very limited.

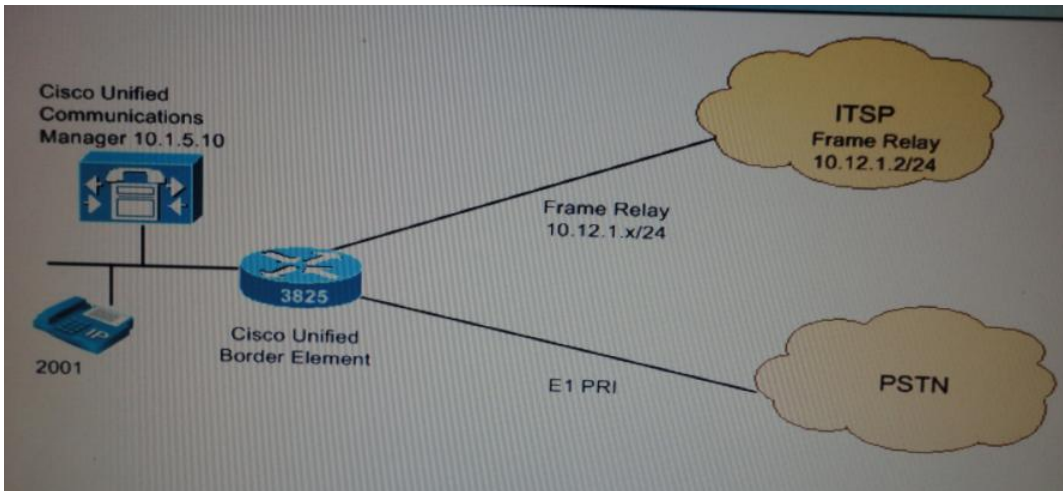
Which solution reduces the WAN utilization of the five users from a branch office and two users from headquarters in conference calls?

- A. Configure the hardware DSP resources in the branch and headquarters ISR gateways to work together simultaneously in the same conference call.
- B. Have the users from the branch office initiate the conference call. Configure the branch office phones in the MRGL to the branch office gateway resources.
- C. Have the users from the branch office initiate the conference call. MRGL configurations are not required.
- D. Utilize the hardware conference resources in headquarters. Configure all phones in the MRGL to the headquarters resources.

Answer: B

Question No : 3 - (Topic 1)

Refer to the exhibits.



```

Debug ccsip message
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HQ#debug ccsip messages
SIP Call messages tracing is enabled
HQ#
'Mar 23 14:49:29.485: //-1/xxxxxxxxxxxx/SIP/Msg/ccsipDisplayMsg:
Received:
INVITE sip:40302156001@10.1.110.1:5060 SIP/2.0

Via: SIP/2.0/TCP 10.1.5.10:5060;branch=z9hG4bK109844b1e

From: <sip:2001@10.1.5.10>;tag=ae2783cb-9687-4fc7-a1d0-8108b8b3679a-27173712

To: <sip:40302156001@10.1.110.1>

Date: Tue, 23 Mar 2010 14:56:54 GMT

Call-ID: 50934480-ba81d6b6-11-a05010a@10.1.5.10

Supported: timer,resource-priority,replaces

Min-SE: 1800

User-Agent: Cisco-CUCM8.0

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

CSeq: 101 INVITE

Contact: <sip:2001@10.1.5.10:5060;transport=tcp>
    
```

```
Expires: 180
Allow-Events: presence, kpml
Supported: X-cisco-srtp-fallback
Supported: Geolocation
Call-Info: <sip:10.1.5.10:5060>;method="NOTIFY;Event=telephone-event;Duration=500"
Cisco-Guid: 1351828608-3129071286-0000000015-0168100106
Session-Expires: 1800
P-Asserted-Identity: <sip:2001@10.1.5.10>
Remote-Party-ID: <sip:2001@10.1.5.10>;part
HQ#y=calling;screen=yes;privacy=off
Max-Forwards: 70
Content-Length: 0

'Mar 23 14:49:29.493: //-1/xxxxxxxxxxxx/SIPMsg/ccsipDisplayMsg:
Sent:
SIP/2.0 100 Trying

Via: SIP/2.0/TCP 10.1.5.10:5060;branch=z9hG4bK109844b1e
```

```
Debug ccsip message
Via: SIP/2.0/TCP 10.1.5.10:5060;branch=z9hG4bK109844b1e
From: <sip:2001@10.1.5.10>;tag=ae2783cb-9687-4fc7-a1d0-8108b8b3679a-27173712
To: <sip:40302156001@10.1.110.1>
Date: Tue, 23 Mar 2010 14:49:29 GMT
Call-ID: 50934480-ba81d6b6-11-a05010a@10.1.5.10
CSeq: 101 INVITE
Allow-Events: telephone-event
Server: Cisco-SIPGateway/IOS-12.x
Content-Length: 0

'Mar 23 14:49:29.493: //-1/xxxxxxxxxxxx/SIPMsg/ccsipDisplayMsg:
Sent:
SIP/2.0 404 Not Found

Via: SIP/2.0/TCP 10.1.5.10:5060;branch=z9hG4bK109844b1e

From: <sip:2001@10.1.5.10>;tag=ae2783cb-9687-4fc7-a1d0-8108b8b3679a-27173712
To: <sip:40302156001@10.1.110.1>;tag=969E5B4-F42
```

Call-ID: 50934480-ba81d6b6-11-a05010a@10.1.5.10

CSeq: 101 INVITE

Allow-Events: telephone-event

Server: Cisco-SIPGatewayIOS-12.x

Reason: Q.850;cause=3

Content-Length: 0

'Mar 23 14:49:29.493: //-1/xxxxxxxxxxxx/SIP/Msg/ccsipDisplayMsg:

Received:

ACK sip:40302156001@10.1.110.1:5060 SIP/2.0

Via: SIP/2.0/TCP 10.1.5.10:5060;branch=z9hG4bK109844b1e

From: <sip:2001@10.1.5.10>;tag=ae2783cb-9687-4fc7-a1d0-8108b8b3679a-27173712

To: <sip:40302156001@10.1.110.1>;tag=969E5B4-F42

Date: Tue, 23 Mar 2010 14:56:54 GMT

Call-ID: 50934480-ba81d6b6-11-a05010a@10.1.5.10

Max-Forwards: 70

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To: <sip:40302156001@10.1.110.1>;tag=969E5B4-F42

Date: Tue, 23 Mar 2010 14:56:54 GMT

Call-ID: 50934480-ba81d6b6-11-a05010a@10.1.5.10

Max-Forwards: 70

CSeq: 101 ACK

Allow-Events: presence, kpml

Content-Length: 0

HO#

HO#

```
CUBE Config
Building configuration...

Current configuration : 4713 bytes
!
! Last configuration change at 14:47:51 UTC Tue Mar 23 2010
!
version 15.0
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname HQ
!
boot-start-marker
boot system flash c3825-ipvoice_ivs-mz.150-1.XA1.bin
boot-end-marker
!
card type e1 0 0
enable password cisco123
!
no aaa new-model
network-clock-participate wic 0
!
ip source-route
ip cef
!
!
ip dhcp excluded-address 10.1.10.1 10.1.10.9
```

```
CUBE Config
ip dhcp pool Data
  network 10.1.10.0 255.255.255.0
  default-router 10.1.10.1
!
!
no ip domain lookup
ip multicast-routing
no ipv6 cef
multilink bundle-name authenticated
!
!
!
isdn switch-type primary-net5
!
voice-card 0
!
voice service voip
  allow-connections h323 to sip
!
!
license udi pid CISCO3825 sn FTX1244A1SX
archive
  log config
  hidekeys
!
!
controller E1 0/0/0
  pri-group timeslots 1-12,16 service mgcp
!
!
```


CUBE Config

```
!  
interface Loopback0  
ip address 10.1.111.1 255.255.255.0  
!  
interface GigabitEthernet0/0  
no ip address  
ip pim sparse-dense-mode  
duplex auto  
speed auto  
media-type rj45  
!  
interface GigabitEthernet0/0.5  
encapsulation dot1Q 5  
ip address 10.1.5.1 255.255.255.0  
ip pim sparse-dense-mode  
!  
interface GigabitEthernet0/0.10  
encapsulation dot1Q 10  
ip address 10.1.10.1 255.255.255.0  
ip pim sparse-dense-mode  
!  
interface GigabitEthernet0/0.110  
encapsulation dot1Q 110  
ip address 10.1.110.1 255.255.255.0  
ip helper-address 10.1.5.10  
ip pim sparse-dense-mode  
!  
interface GigabitEthernet0/1  
ip address 10.140.1.2 255.255.255.0  
duplex auto  
speed auto  
media-type rj45
```

