642-427$^{Q\&As}$

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

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QUESTION 1

Refer to the exhibit.

Default CoS-to-DSCP Map

CoS Value	0	1	2	3	4	5	6	7
DSCP Value	0	8	16	26	32	40	48	56

```
mls qos trust device cisco-phone
mls qos trust cos
```

How does a switch port that receives marked traffic from a Cisco IP phone use the mls qos trust cos command?

A. The CoS setting is modified according to the CoS-to-DSCP map.

B. CoS is used to select the ingress and egress queues.

C. For non-IP packets, the CoS is set to 7 and DSCP-to-CoS mapping is not applied.

D. The DSCP-to-CoS map is applied.

Correct Answer: A

QUESTION 2

Refer to the Exhibit.

```
HQ-1#debug ip rsvp resv
Apr 15 09:22:25.256: RSVP: session 10.1.250.101_16858[0.0.0.0]: Received Resv
message from 127.0.0.1 (on receiver host)
Apr 15 09:22:25.256: RSVP: 10.1.250.102_16546->10.1.250.101_16858[0.0.0.0]:
Successfully parsed Resv message from 127.0.0.1 (on receiver host)
Apr 15 09:22:25.256: RSVP-MSG: 10.1.250.102_16546-
>10.1.250.101_16858[0.0.0.0]: no matching path state for Resv
Apr 15 09:22:25.264: RSVP: session 10.1.250.101_16858[0.0.0.0]: Received Resv
message from 127.0.0.1 (on receiver host)
Apr 15 09:22:25.268: RSVP: 10.1.250.102_16546->10.1.250.101_16858[0.0.0.0]:
Successfully parsed Resv message from 127.0.0.1 (on receiver host)
Apr 15 09:22:25.268: RSVP-RESV: Admitting new reservation: 466CE358
Apr 15 09:22:25.268: RSVP-RESV: Locally created reservation. No
admission/traffic control needed
Apr 15 09:22:25.268: RSVP: 10.1.250.102_16546->10.1.250.101_16858[0.0.0.0]:
start requesting 96 kbps FF reservation on Serial0/1/0.121, neighbor
10.1.6.102
Apr 15 09:22:25.268: RSVP: 10.1.250.102_16546->10.1.250.101_16858[0.0.0.0]:
start requesting 96 kbps FF reservation on Serial0/1/0.121, neighbor
10.1.6.102
Apr 15 09:22:25.272: RSVP: session 10.1.250.102_16546[0.0.0.0]: Received Resv
message from 10.1.6.102 (on Serial0/1/0.121)
Apr 15 09:22:25.272: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
Successfully parsed Resv message from 10.1.6.102 (on Serial0/1/0.121)
Apr 15 09:22:25.272: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
reservation not found--new one
Apr 15 09:22:25.272: RSVP-RESV: Admitting new reservation: 466CE1F0
Apr 15 09:22:25.276: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
building error_spec object with err-node addr: 10.1.6.101
Apr 15 09:22:25.276: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
Sending ResvError message to 10.1.6.102
Apr 15 09:22:25.276: RSVP-RESV: reservation was not installed: 466CE1F0
Apr 15 09:22:25.280: RSVP-RESV: Deleting reservation: 466CE1F0
Apr 15 09:22:25.280: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
Expiring Serial0/1/0.121 RESV state, reason: Traffic control error
Apr 15 09:22:25.280: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
Expiring Serial0/1/0.121 RESV state, reason: Traffic control error (17:16858)
Apr 15 09:22:25.280: RSVP: 10.1.250.101_16858->10.1.250.102_16546[0.0.0.0]:
Sending PathTear message to 10.1.250.102
Apr 15 09:22:25.284: RSVP: 10.1.250.102_16546->10.1.250.101_16858[0.0.0.0]
Refresh RESV, req=466D33A0 [cleanup timer is not awake]
```

The Exhibit shows the output of an unsuccessful RSVP call setup that uses G.711 codec. Which configuration on serial 0/1/0.121 would resolve that issue?
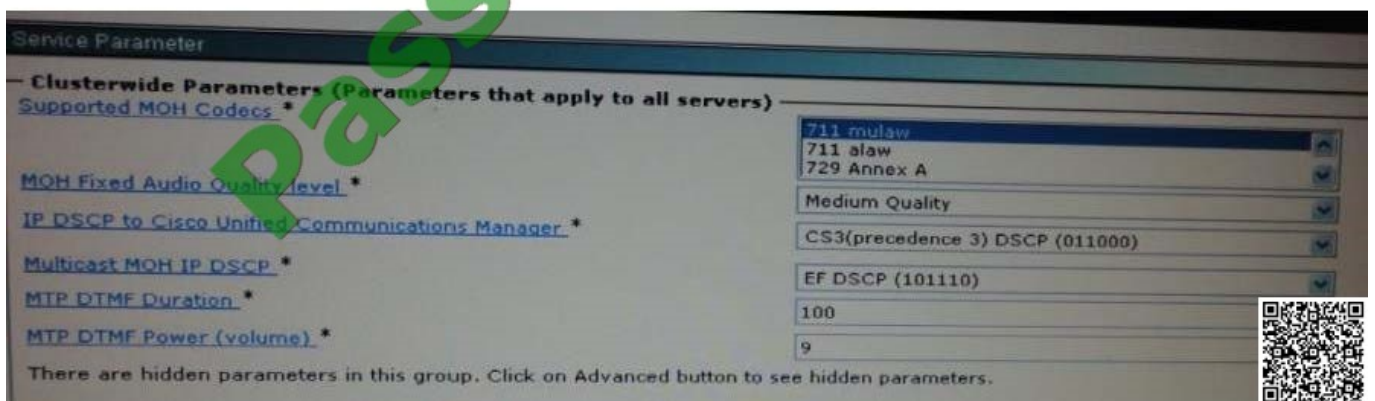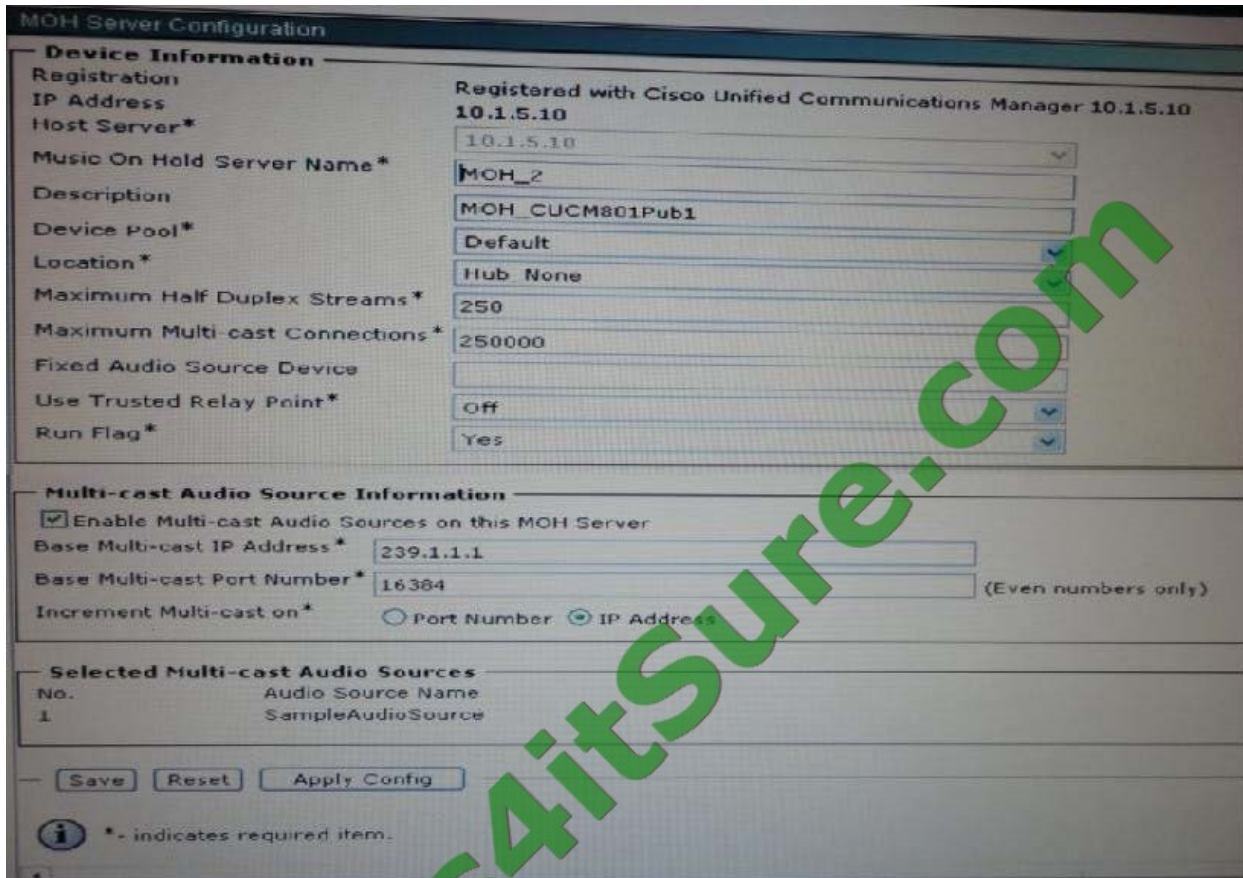
A. ip rsvp bandwidth 40 40

B. ip rsvp bandwidth 40 24

C. ip rsvp bandwidth 96 80

D. ip rsvp bandwidth 96 96

E. ip rsvp bandwidth 80 16

Correct Answer: D

QUESTION 3

Refer to the exhibits.

MOH has been configured to run from flash at the BR1 site. The HQ phones and MOH server are placed in the Default region through the Default device pool. The BR1 phones are placed in the BR1 region through the BR1

device pool. The region configuration between Default and BR1 only permits 729 codec. When an IP phone user at the HQ site places a BR1 caller on hold, the BR1 caller hears tone on hold.

Which of the following can cause this issue?

```
SRST Config
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname BR1
!
card type t1 0 0
logging message-counter syslog
enable password cisco123
!
no aaa new-model
network-clock-participate wic 0
!
ip source-route
!
!
ip cef
ip dhcp excluded-address 10.1.20.1 10.1.20.9
ip dhcp excluded-address 10.1.20.21 10.1.20.254
!
ip dhcp pool Data
   network 10.1.20.0 255.255.255.0
   default-router 10.1.20.1
!
!
no ip domain lookup
no ipv6 cef
multilink bundle-name authenticated
!
```

```
isdn switch-type primary-ni
!
!
!
!
!
voice translation-rule 1
 rule 1 /^710(....$)/ /□/
 rule 2 /^212710(....$)/ /□/
!
voice translation-rule 2
 rule 1 /^2/ /6506032/ type any national
 rule 2 /^4/ /4989531214/ type any international
 rule 3 /^9011/ // type any international
!
voice translation-rule 3
 rule 1 /^3...$/ /212710&/
!
!
voice translation-profile pstn-in
 translate called 1
!
voice translation-profile srst
 translate calling 3
 translate called 2
!
!
voice-card 0
 dspfarm
 dsp services dspfarm
```

```
!
vtp mode transparent
archive
 log config
 hidekeys
!
!
!
controller T1 0/0/0
 cablelength short 110
 pri-group timeslots 1-12,24
!
vlan 20
 name BR1-Data
!
vlan 120
 name BR1-Voice
!
!
!
!
interface FastEthernet0/1/0
 description BR1 Phone1
 switchport access vlan 20
 switchport voice vlan 120
 spanning-tree portfast
!
interface FastEthernet0/1/1
 description BR1 Phone2
 switchport access vlan 20
 switchport voice vlan 120
```

```
interface FastEthernet0/1/1
 description BR1 Phone2
 switchport access vlan 20
 switchport voice vlan 120
 spanning-tree portfast
!
!
interface Serial0/0/0:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice voice
 isdn bchan-number-order ascending
 no cdp enable
!
interface Serial0/2/0
 no ip address
 encapsulation frame-relay IETF
!
interface Serial0/2/0.101 point-to-point
 ip address 10.12.1.2 255.255.255.0
 ip pim sparse-dense-mode
 snmp trap link-status
 frame-relay interface-dlci 101
!
interface Vlan1
 no ip address
 shutdown
!
interface Vlan20
 ip address 10.1.20.1 255.255.255.0
```

```
interface Vlan1
 no ip address
 shutdown
!
interface Vlan20
 ip address 10.1.20.1 255.255.255.0
!
interface Vlan120
 ip address 10.1.120.1 255.255.255.0
 ip helper-address 10.1.5.2
 h323-gateway voip bind srcaddr 10.1.120.1
!
router eigrp 10
 network 10.0.0.0
 no auto-summary
!
ip forward-protocol nd
!
!
no ip http server
!
!
!
!
control-plane
!
!
!
voice-port 0/0/0:23
 translation-profile incoming pstn-in
 translation-profile outgoing srst
```

```
voice-port 0/0/0:23
 translation-profile incoming pstn-in
 translation-profile outgoing srst
!
ccm-manager fax protocol cisco
!
mgcp fax t38 ecm
!
!
dial-peer voice 911 pots
 destination-pattern 911
 port 0/0/0:23
 forward-digits all
!
dial-peer voice 9911 pots
 destination-pattern 9911
 port 0/0/0:23
 forward-digits all
!
dial-peer voice 123 pots
 incoming called-number .
 direct-inward-dial
!
dial-peer voice 3000 voip
 destination-pattern 3...
 session target ipv4:10.1.5.10
 dtmf-relay h245-alphanumeric
 no vad
!
dial-peer voice 9011 pots
 corlist outgoing intlPt
```

```
dial-peer voice 9011 pots
 corlist outgoing intIPt
 destination-pattern 9011T
 port 0/0/0:23
!
dial-peer voice 7 pots
 corlist outgoing localPt
 destination-pattern 9[2-9]......
 port 0/0/0:23
!
dial-peer voice 24000 pots
 destination-pattern [24]...
 port 0/0/0:23
!
!
dial-peer voice 11 pots
 corlist outgoing ldPt
 destination-pattern 91[2-9]..[2-9]......
 port 0/0/0:23
!
!
gateway
 timer receive-rtp 1200
!
!
gatekeeper
 shutdown
!
!
call-manager-fallback
 max-conferences 8 gain -6
```

```
gatekeeper
 shutdown
!
!
call-manager-fallback
 max-conferences 8 gain -6
 transfer-system full-consult
 ip source-address 10.1.120.1 port 2000
 max-ephones 4
 max-dn 8 dual-line
 moh music-on-hold.au
 multicast moh 239.1.1.1 port 16384
!
line con 0
 exec-timeout 0 0
 logging synchronous
line aux 0
line vty 0 4
 exec-timeout 0 0
 password cisco123
 login
!
scheduler allocate 20000 1000
end
```

A. Multicast routing is not enabled on the BR1 router.

B. The command ip pim separate-dense-mode is missing from interface VLAN 120 at the SRST router in BR1.

C. The MOH server is unable to stream MOH using G.711 codec because of the regions configuration.

D. The command route 10.1.120.1 must be added to the multicast moh 239.1.1.1 port 16384 command at the SRST router in BR1.

E. The Max Hops is too small in the MOH configuration

Correct Answer: B

QUESTION 4

In a Cisco UCM multisite WAN with centralized call-processing deployment model, what redundancy feature should be configured on remote site routers to supply basic IP telephony services in the event of a WAN outage?

A. AAR

B. SRST

C. CAC

D. V3PN

Correct Answer: B

QUESTION 5

When a database replication issue is suspected, which three tools can be used to check the database replication status? (Choose three.)

A. Cisco Unified Communications Manager RTMT tool

B. Cisco Unified Communications Manager Serviceability interface

C. Cisco Unified Reporting

D. Cisco Unified Communications Manager CLI interface

E. Cisco IP Phone Device Stats from the Settings button

F. Cisco Unified OS Administration interface

Correct Answer: ACD

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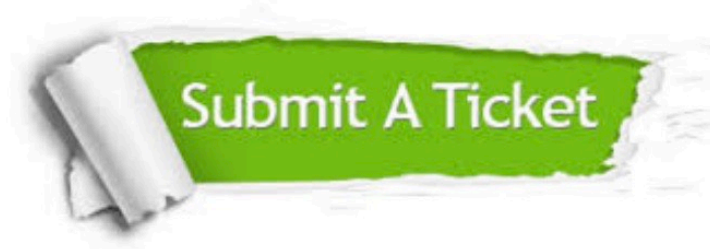Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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