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Implementing Cisco Advanced Call Control and Mobility Services (CLACCM)

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QUESTION 1

```
2899152: Mar 31 21:23:16.777: TCB7F7F9668A9E8 setting property TCP_ALWAYSPUSH (15) 7F7F94803528
2899153: Mar 31 21:23:16.777:  tcp_uniqueport: using ephemeral max 65535
2899154: Mar 31 21:23:16.777: TCP: Random local port generated 30202, network 1
2899155: Mar 31 21:23:16.777: TCB7F7F9668A9E8 bound to 10.10.10.40.30202
2899156: Mar 31 21:23:16.777: Reserved port 30202 in Transport Port Agent for TCP IP type 1
2899157: Mar 31 21:23:16.777: TCP: sending SYN, seq 974312871, ack 0
2899158: Mar 31 21:23:16.777: TCP0: Connection to 10.10.10.14:5060, advertising MSS 536
2899159: Mar 31 21:23:16.777: TCP0: state was CLOSED -> SYNSENT [30202 -> 10.10.10.14(5060)]
2899160: Mar 31 21:23:18.777: TCP0: RETRANS timeout timer expired
2899161: Mar 31 21:23:18.777: 10.10.10.40:30202 <---> 10.10.10.14:5060   congestion window changes
2899162: Mar 31 21:23:18.777: cwnd from 536 to 536, ssthresh from 65535 to 1072
2899163: Mar 31 21:23:18.777: TCP0: timeout #1 - timeout is 4000 ms, seq 974312871
  --More--       2899164: Mar 31 21:23:18.777: TCP: (30202] -> 10.10.10.14(5060)
2899165: Mar 31 21:23:19.503: TCP866: state was ESTAB -> FINWAIT1 [22 -> 10.16.8.226(52145)]
2899166: Mar 31 21:23:19.503: TCP866: sending FIN
2899167: Mar 31 21:23:19.536: TCP866: state was FINWAIT1 -> FINWAIT2 [22 -> 10.16.8.226(52145)]
2899168: Mar 31 21:23:19.536: TCP866: FIN processed
2899169: Mar 31 21:23:19.536: TCP866: state was FINWAIT2 -> TIMEWAIT [22 -> 10.16.8.226(52145)]
2899170: Mar 31 21:23:21.777: Released port 30202 in Transport Port Agent for TCP IP type 1 delay 240000
2899171: Mar 31 21:23:21.777: TCP0: state was SYNSENT -> CLOSED [30202 -> 10.10.10.14(5060)]
2899172: Mar 31 21:23:21.777: TCB 0x7F7F9668A9E8 destroyed
```

Refer to the exhibit. An engineer is trying to set up a new deployment using the SIP provider with TCP for signaling. After troubleshooting, the customer notices that the matching incoming dial peer and outgoing dial peer did not generate the INVITE to the SIP provider. Why is the call failing?

A. The ITSP is sending FIN.

B. The ITSP is not sending the ACK.

C. The ITSP is sending CLOSE state.

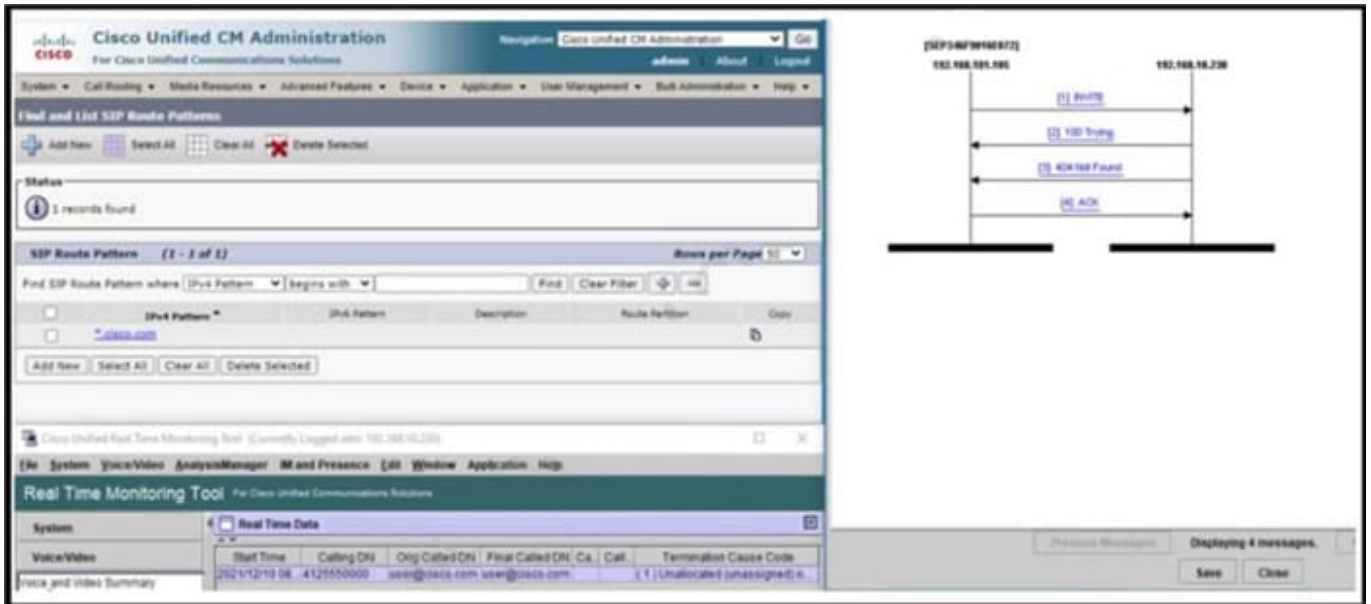D. The ITSP is not answering the SYN.

Correct Answer: D

QUESTION 2

Which set of commands binds SIP media and signaling to interface GigabitEthernet0/0 when dial peer 1 is chosen for call routing?

A. dial-peer voice 1 voip voice-class source interface GigabitEthernet0/0

B. voice service voip bind sip source-interface GigabitEthernet0/0

C. voice service voip sip bind all source-interface GigabitEthernet0/0

D. dial-peer voice 1 voip voice-class bind control source-interface GigabitEthernet0/0 voice-class sip bind media source-interface GigabitEthernet0/0

Correct Answer: C

QUESTION 3

Refer to the exhibit. A collaboration engineer is troubleshooting a Cisco UCM issue where users report that calls placed to the domain cisco.com are failing and calls to sip.cisco.com are working. Which action resolves the issue?

A. Change the "Route Partition" setting on the *.cisco.com route pattern.

B. Add a SIP route pattern for *.*.

C. Select "Block Pattern" on the *.cisco.com route pattern.

D. Delete the *.cisco.com route pattern.

Correct Answer: B

QUESTION 4

When configuring hunt groups, where does the administrator add the individual directory numbers that should be part of the group?

A. route group

B. line group

C. hunt list

D. hunt pilot

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/admin/12_0_1/systemConfig/cucm_b_system-configuration-guide-1201/cucm_b_system-configuration-guide-1201_chapter_010101.html

QUESTION 5

Which two types of authentication are supported for the configuration of Intercluster Lookup Service? (Choose two.)

A. TokenID

B. username and secret key

C. TLS certificates

D. passwords

E. FQDN of the servers defined in DNS

Correct Answer: CD

Reference: https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/admin/11_5_1/sysConfig/11_5_1_SU1/cucm_b _system-configuration-guide-1151su1/cucm_b_system-configuration-guide-1151su1_chapter_011001.pdf
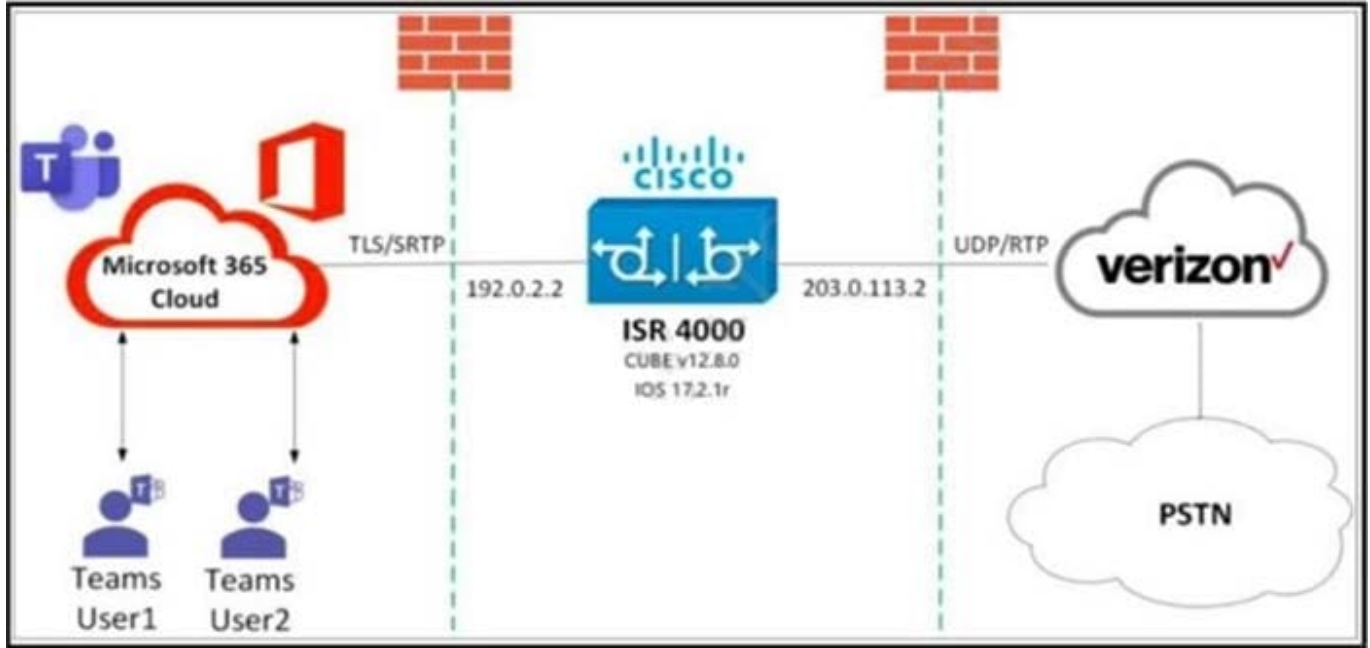
QUESTION 6

Which configuration element of a hunt group allows for changing Calling Party Transformations settings?

A. line group

B. hunt pilot

C. route group

D. hunt list

Correct Answer: B

Reference: https://community.cisco.com/t5/ip-telephony-and-phones/call-alerting-on-hunt-group-as-shared-line/td-p/2658015

QUESTION 7

Refer to the exhibit. A company is using Microsoft Teams with Cisco Unified Border Element integration, but the administrator sees a one-way audio issue with Microsoft Teams. The administrator must modify the SIP profile to send the proper information on the SDP for IP address for media to match the internal and external interface. Which set of commands resolves the issue?

A. voice class sip-profiles 1 request INVITE sdp-header Connection-Info modify "2\.76\.1" "2.78.1"

B. voice class sip-profiles 1 request INVITE sdp-header Session-Owner modify "27\.0\.0" "27.3.0"

C. voice class sip-profiles 1 request INVITE sdp-header Connection add "2\.76\.1" "2.78.1"

D. voice class sip-profiles 1 request INVITE sdp-header Audio-Attribute modify "2\.76\.1" "2.71.1"

Correct Answer: C

QUESTION 8

An engineer is configuring a Cisco UCM solution. The requirements state that some users in one location will receive calls from a number during work hours 09AM to 5PM, and another group will get the calls from the same number outside this defined timeslot. Users will also change the outgoing number when reaching out to customers based on the same time-of-day routing rules. Which feature is needed to allow for this type of configuration?

A. partitions

B. CSS

C. route groups

D. route lists

Correct Answer: B

QUESTION 9

Refer to the exhibit.

Region Configuration   Related Links: Back To Find/List ▼ Go

💾 Save   ✖ Delete   🔄 Reset   ✏ Apply Config   ➕ Add New

Region Information

Name* `Region A`

Region Relationships

Region	Audio Codec Preference List	Maximum Audio Bit Rate	Maximum Session Bit Rate for Video Calls	Maximum Session Bit Rate for Immersive Video Calls
Region B	Use System Default (Factory Default low loss)	8 kbps (G.729)	None	None
Region C	Use System Default (Factory Default low loss)	16 kbps (iLBC, G.728)	Use System Default (384 kbps)	Use System Default (2000000000 kbps)
Region D	Use System Default (Factory Default low loss)	64 kbps (G.722, G.711)	Use System Default (384 kbps)	Use System Default (2000000000 kbps)
NOTE: Regions not displayed	Use System Default	Use System Default	Use System Default	Use System Default

Media Resource Group Information

Name* `MRG2`

Description `Media Resource Group 2`

Devices for this Group

Available Media Resources**
```
MOH_5
MTP_3
MTP_4
MTP_5
XCODER
```

∨ ∧

Selected Media Resources*
```
ANN_2 (ANN)
CFB_2 (CFB)
MOH_2 (MOH)
MTP_2 (MTP)
```

```
#CallManager SDL Logs
|AppInfo  |DET-MediaManager- (22401) : :preCheckCapabilities, caps mismatch!
Xcoder Reqd. kbps(8),
     filtered A[capCount=0 {Cap,ptime}=], B[capCount=4 {Cap,ptime} = {11,220}
{12,220} {15,220} {9,270} ]
     allowMTP=0 numXcoderRequired=1 xcodingSide=1
|SdlSig       |MrmAllocateMtpResourceErr  |waitResourcesAllocated
     |MediaManager (6,100,144,22401)   MediaResourceManager (6, 100, 142, 1)
```

Regions have been configured for all major branches based on the available circuit bandwidth. Some calls from Region A endpoints to Region B endpoints are failing to connect. How is the issue resolved?

A. Update the calling search space for affected endpoints to none.

B. Update all regions to 8 kbps maximum audio bitrate.

C. Increase the number of available media termination points.

D. Add a media resource to transcode between available capabilities.

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/support/docs/unified-communications/unified-communications-manager-callmanager/200788-Call-Recording-Basic-Configuration-and-T.html

QUESTION 10

An administrator has a requirement that the agents that receive calls from PSTN now must have a queue to hold the calls until they can be answered, but the customer cannot afford a contact center solution. The administrator discovered a feature called Native Call Queueing on Cisco UCM. Where must the administrator configure Native Call Queueing functionality?

A. CTI route point

B. hunt list

C. hunt pilot

D. hunt group

Correct Answer: C

QUESTION 11

```
┌─Roaming Sensitive Settings────────────────────────────────────┐
│  Date/Time Group*              CMLocal                      ∨  │
│  Region*                       Charlotte_Region            ∨  │
│  Media Resource Group List     mrgl_a-b                    ∨  │
│  Location                      Charlotte_Location          ∨  │
│  Network Locale                < None >                    ∨  │
│  SRST Reference*               Disable                     ∨  │
│  Connection Monitor Duration***                               │
│  Single Button Barge*          Default                     ∨  │
│  Join Across Lines*            Default                     ∨  │
│  Physical Location             < None >                    ∨  │
│  Device Mobility Group         Charlotte_DMG               ∨  │
│  Wireless LAN Profile Group    < None >           ∨ | View Details │
│  Emergency Location(ELIN) Group  < None >                  ∨  │
└───────────────────────────────────────────────────────────────┘
```

Refer to the exhibit. An administrator configured Device Mobility but is receiving reports that local calls are failing when a user takes their device from the RTP location to the Charlotte location. The administrator confirmed that the correct subnet is configured under the Device Mobility info page. In addition, the roaming device pool has the correct Device Mobility calling search space selected. Which configuration change resolves the issue?

A. Join across lines is not supported with Device Mobility and must be disabled.

B. The network locale must be changed from none to the Charlotte locale.

C. The physical location must be updated from none to the appropriate location.

D. The device must be added to the Device Mobility group.

Correct Answer: D

QUESTION 12

When locations-based Call Admission Control denies the call, which two masks can AAR apply when routing the call through the PSTN? (Choose two.)

A. AAR destination mask

B. called party transform mask

C. external phone number mask

D. +E.164 alternate number mask

E. enterprise alternate number mask

Correct Answer: AC

Reference: https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/srnd/collab10/collab10/dialplan.html

---

QUESTION 13

End users at a new site report being unable to hear the remote party when calling or being called by users at headquarters. Calls to and from the PSTN work as expected. To investigate the SIP signaling to troubleshoot the problem, which field can provide a hint for troubleshooting?

A. Contact: header of the 200 OK response

B. Allow: header if the 200 OK response

C. o= line of SDP content

D. c= line of SDP content

Correct Answer: D

QUESTION 14

An IP Telephony administrator is deploying IP phones. The administrator has an existing Cisco UCME router with several SCCP and SIP phones registered. The administrator receives a request for a new SIP phone with MAC address 1111.2222.3333 and directory number 2050 to be added in the Cisco UCME. Which two configurations should be added in CME to support this request? (Choose two.)

A.
```
voice register pool 1
 id mac 1111.2222.3333
 type 8941
 number 2 dn 1
```

B.
```
ephone 1
 mac-address 1111.2222.3333
 type 8941
 button 1:2
```

C.
```
ephone-dn 2
 number 2050
```

D.
```
voice register dn 2
 number 2050
```

E.
```
voice register pool 1
 id mac 1111.2222.3333
 type 8941
 number 1 dn 2
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: DE

QUESTION 15

```
<sip: 1155@10.2.2.13>;privacy=off;reason=unconditional;counter=1;screen=no

and from the Cisco CUBE the logs show :

<sip:1155@10.3.3.25>;privacy=off;reason=unconditional;counter=1;screen=no
```

Refer to the exhibit. Users report that outgoing calls do not work on the new SIP trunk for outgoing calls. The solution consists of a Cisco UCM Cluster linked to a Cisco Unified Border Element where the SIP trunk is terminated. The provider required 10 digits. The logs show a line going toward the Cisco Unified Border Element. Which code snippet must be added to the configuration to meet the requirement?

A. request Invite sip-header modify "andamp;lt;sip:1(…)@" "andamp;lt;sip:9135551\1@" under the SIP translation profile configuration

B. request Invite sip-header modify "andamp;lt;sip:1(…)@" "andamp;lt;sip:9135551\1@" under the voice translation profile configuration

C. sip-header modify "andamp;lt;sip:1(…)@" "andamp;lt;sip:9135551\1@" under the voice translation profile configuration

D. request Invite sip-header Diversion modify "andamp;lt;sip:1(…)@" "andamp;lt;sip:9135551\1@" under the SIP profile configuration

Correct Answer: B

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