



# 400-051<sup>Q&As</sup>

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### QUESTION 1

Which method allows administrators to determine the best match impedance on analog voice ports in Cisco IOS router without having to shut and no shut the ports?

- A. THL tone sweep
- B. original tone sweep
- C. ECAN test
- D. inject-tone local sweep
- E. remote loop

Correct Answer: A

THL tone sweep allows all available impedances for a single test call to a quiet termination point out to the PSTN. You do not need to manually disable ECAN on the voice port under test. The test feature switches impedances automatically for the tester. The test feature calculates the arithmetic mean ERL and reports the mean for each channel profile at each impedance setting. Then, at the end of the test, the feature specifies the best match impedance setting. This test requires minimal supervision.

References: <http://www.cisco.com/c/en/us/support/docs/voice/ip-telephony-voice-over-ip-voip/64282-impedance-choice.html>

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### QUESTION 2

Refer to the exhibit. Which description of the event captured in the SIP message on a Cisco Unified Communications Manager Express router with Cisco Unity Express and registered IP phones (SIP and SCCP) is true?



```
Jul 18 05:00:21:834: //-1/xxxxxxxxxxxx/SIP/Msg/ccsipDisplayMsg:
Sent:
NOTIFY sip:1001@10.10.10.31:50800;transport=tcp SIP/2.0
Via: SIP/2.0/TCP 10.10.10.254:5060;branch=z9hG4bKE698F
From: <sip:1001@10.10.10.254>;tag=194EE3C-596
To: <sip:1001@10.10.10.31>
Call-ID: D62DE77B-6AAC11E7-8120BED4-64A83368@10.10.10.254
CSeq: 101 NOTIFY
Max-Forwards: 70
Date: Tue, 18 Jul 2016 05:00:21 GMT
User-Agent: Cisco-SIPGateway/IOS-15.2.4.M5
Event: message-summary
Subscription-State: active
Contact: <sip:1001@10.10.10.254:5060;transport=tcp>
Content-Type: application/simple-message-summary
Content-Length: 23
Messages-Waiting: yes
```

- A. the Cisco UCM Express router notifies a SIP IP phone to turn on its MWI.
- B. Cisco Unity Express notifies a SIP IP phone to turn on its MWI.
- C. the Cisco UCM Express router hairpins a SIP message to itself to notify an SCCP IP phone to turn on MWI.
- D. the Cisco UCM Express router notifies Cisco Unity Express that MWI has been turned on for a SIP IP phone.
- E. Cisco Unity Express notifies the Cisco UCM Express router to turn on MWI for a SIP IP phone.

Correct Answer: E

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### QUESTION 3

Which three are Border device types in Cisco Unified Communications Manager logical partitioning policies? (Choose three.)

- A. MGCP gateway with FXO ports
- B. media termination points
- C. SIP IP phones
- D. MGCP gateway with Q.SIG PRI
- E. SIP trunk to Cisco Unity Connection
- F. intercluster trunk using H.225



Correct Answer: AEF

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#### QUESTION 4

What does a period accomplish when it is used in a SIP Dial Rule pattern that is associated with a Cisco 9971 IP Phone that is registered to Cisco Unified Communications Manager?

- A. It matches any single digit from 0 to 9.
- B. It matches one or more digits from 0 to 9.
- C. It is a delimiter and has no significant dialing impact.
- D. It matches any single digit from 0 to 9, or the asterisk (\*) or pound (#) symbols.
- E. It matches one or more digits from 0 to 9, or the asterisk (\*) or pound (#) symbols.

Correct Answer: D

Asterisk (\*) matches one or more characters. The \* gets processed as a wildcard character. You can override this by preceding the \* with a backward slash (\) escape sequence, which results in the sequence \\*. The phone automatically strips the \, so it does not appear in the outgoing dial string. When \* is received as a dial digit, it gets matched by the wildcard characters \* and period (.).

---

#### QUESTION 5

Refer to the exhibit.



```
1087: NOT 13:10:18.180262 VPNC: VPN cert chain trusted
1088: DBG 13:10:18.181643 VPNU: SM wakeup - chld=0 tmr=0 io=1 res=0
1089: NOT 13:10:18.183502 VPNC: Using URL addr = (https://209.165.200.225/phonevpn)
1090: NOT 13:10:18.184080 VPNC: Host name = (209.165.200.225)
1091: NOT 13:10:18.184840 VPNC: Parsing host name from certificate...
1092: NOT 13:10:18.185512 VPNC: hostID not found in subject name
1093: ERR 13:10:18.186303 VPNC: hostIDCheck failed!!!
1094: ERR 13:10:18.188052 VPNC: ssl_state_cb: TLSv1: write: alert: fatal:unknown CA
1095: ERR 13:10:18.188968 VPNC: alert_err: SSL write alert: code 48, unknown CA
1096: ERR 13:10:18.189991 VPNC: create_ssl_connection: SSL_connect ret -1 error 1
1097: ERR 13:10:18.191394 VPNC: SSL: SSL_connect: SSL_ERROR_SSL (error 1)
1098: ERR 13:10:18.192406 VPNC: SSL: SSL_connect: error:14090086:SSL
routines:SSL3_GET_SERVER_CERTIFICATE:certificate verify failed
1099: ERR 13:10:18.193416 VPNC: create_ssl_connection: SSL setup failure
1100: ERR 13:10:18.195227 VPNC: do_login: create_ssl_connection failed
1101: NOT 13:10:18.196442 VPNC: vpn_stop: de-activating vpn
1102: NOT 13:10:18.197296 VPNC: vpn_set_auto: auto -> auto
1103: NOT 13:10:18.197904 VPNC: vpn_set_active: activated-> de-activated
1104: NOT 13:10:18.198711 VPNC: set_login_state: LOGIN: 1 (TRYING) --> 3 (FAILED)
1105: NOT 13:10:18.199577 VPNC: set_login_state: VPNC : 1 (LoggingIn) --> 3 (LoginFailed)
1106: NOT 13:10:18.200518 VPNC: vpn_send_notify: notify type: 1 [LoginFailed]
```

A phone VPN failed to establish a VPN with the Cisco ASA. The support engineer downloaded the console logs and analyzed them. When two steps resolve this issue? (Choose two)

- A. Configure user and password authentication instead of certificate only.
- B. Uncheck the enable Host ID check checkbox under the VPN profile in Cisco Unified CM.
- C. Reset the Cisco Unified CM TFTP service to allow caching of the new certificate.
- D. Delete the current certificate so the phone can download a new one.
- E. Register the phone internally to download the new configuration.

Correct Answer: B

## QUESTION 6

Which H.245 information is exchanged within H.225 messages in H.323 Fast Connect?

- A. Terminal Capability Set
- B. Open Logical Channel
- C. Master-Slave Determination
- D. Call Setup
- E. Call Progress



Correct Answer: B

With the standard H.245 negotiation, the two endpoints need three round-trips before they agree on the parameters of the audio/video channels (1. master/slave voting, 2. terminal capability set exchange, and finally, 3. opening the logical channels). In certain situations and especially with high-latency network links, this can last too long and users will notice the delay.

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#### QUESTION 7

VMs are best suited to running what kind of workloads?

- A. Monolithic applications
- B. Jobs that scale, but don't interact much
- C. Cloud Native applications
- D. Microservices
- E. Cloud-based applications

Correct Answer: D

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#### QUESTION 8

Refer to the exhibit. Which option correctly describes the output shown?





```
RTR#deb ccm-manager events
Jan 1 18:49:27.631: cmapp_host_fsm: Processing event GO_ACTIVE for
host 0
(172.16.100.11) in state DOWN
Jan 1 18:49:27.631: cmapp_start_host_tmr: Host 0 (172.16.100.11),
tmr 0, duration 15000
Jan 1 18:49:27.631: cmapp_open_new_link: Open link for [0]:
172.16.100.11
Jan 1 18:49:27.631: cmapp_open_tcp_link: Opening TCP link with Rem
IP 172.16.100.11, Local IP 172.16.100.1, port 2428
Jan 1 18:49:27.635: cmapp_open_new_link: Open initiated OK: Host 0
(172.16.100.11), session_id-4CD48CD8
Jan 1 18:49:27.635: cmapp_host_fsm: New state ACTIVE_OPENING for
host 0 (172.16.100.11)
Jan 1 18:49:41.631: cmgb_tcp_open_ind: TCP open failed for
172.16.100.11, calling callback.
Jan 1 18:49:41.631: cmapp_host_fsm_process_event: Signal from
unknown TCP session 4CD48CD8
Jan 1 18:49:42.631: cmapp_host_fsm: Processing event
OPEN_LINK_TIMEOUT for host 0 (172.16.100.11) in state
ACTIVE_OPENING
Jan 1 18:49:42.631: cmapp_host_fsm: New state DOWN for host 0
(172.16.100.11)
Jan 1 18:49:42.631: cmapp_mgr_process_ev_active_host_failed:
Active host 0 (172.16.100.11) failed
Jan 1 18:49:42.631: cmapp_mgr_check_hostlist: Active host is 0
(172.16.100.11)
Jan 1 18:49:42.631: cmapp_mgr_check_hostlist: Host 0
(172.16.100.11) going active
Jan 1 18:49:42.631: cmapp_try_fallback(set_to_mode =ON)
Jan 1 18:49:42.631: cmapp_shut_backhaul: backhaul link shutdown is
not configured
Jan 1 18:49:42.631: cmapp_try_fallback: fallback is already ON
```

- A. The ccm switchback uptime-delay was incorrectly set to immediate instead of graceful.
- B. Fallback for the PRI worked successfully when the connection to CUCM was lost.
- C. The ccm-manager fallback-mgcp command is missing from the configuration.
- D. The redundant CUCM servers will be tried after 15 seconds has passed.

Correct Answer: C



### QUESTION 9

Which system location is used for intercluster Enhanced Location CAC on Cisco Unified Communications Manager?

- A. Hub\_None
- B. Default
- C. Intercluster
- D. Phantom
- E. Shadow

Correct Answer: E

The shadow location is used to enable a SIP trunk to pass Enhanced Location CAC information such as location name and Video-Traffic-Class (discussed below), among other things, required for Enhanced Location CAC to function between clusters. In order to pass this location information across clusters, the SIP intercluster trunk (ICT) must be assigned to the "shadow" location. The shadow location cannot have a link to other locations, and therefore no bandwidth can be reserved between the shadow location and other locations. Any device other than a SIP ICT that is assigned to the shadow location will be treated as if it was associated to Hub\_None. That is important to know because if a device other than a SIP ICT ends up in the shadow location, bandwidth deductions will be made from that device as if it were in Hub\_None, and that could have varying effects depending on the location and links configuration.

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### QUESTION 10

Which element was added to H.225 messages to enable Fast Connect in H.323 version 2?

- A. fastStart
- B. fastConnect
- C. H.245 PDU
- D. User-User Information
- E. Connection Information

Correct Answer: A

Fast start allows for H323 media connections to be started at the beginning of a call. This is helpful for ringback scenarios, and also reduces the amount of time calls take to establish media. H245 is still negotiated later, but the actual media can be done earlier through H225 messages.

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### QUESTION 11

Which two actions does the Cisco Unified IP phone use the initial Trust list to perform? (Choose two.)

- A. Decrypt secure XML files





- B. Encrypt RTP traffic for ip phones that are not registered to the same call manager cluster
- C. Download background image files
- D. Authenticate their configuration file signature
- E. Talk securely to CAPF which is a prerequisite to support configuration files encryption

Correct Answer: DE

#### QUESTION 12

A SIP carried delivers DID to a Cisco Unified Border Element in the form of +155567810XX, where the last two digits could be anything from 00 to 99. To match the internal dial plan, that number must be changed to 6785XXX, where the last two digits should be retained. Which two translation profiles create the required outcome? (Choose two)

- A. rule 1 /555\(.\*)\.(.\*)/ ^150\2/
- B. rule 1 /+ 1555\(...)\.(...)\\$/ ^15\2/
- C. rule 1 /^+ 1555\678\10\(...)\\$/ ^150\2/
- D. rule 1 /^15+678\(... \.)/678\1/
- E. rule 1 /.15+678?10?\(...)/ /67850\1/

Correct Answer: CE

#### QUESTION 13

Which protocol that is used between Cisco IM and Presence and Cisco Unified Communications Manager is responsible for the exchange of phone state presence information?

- A. AXL/SOAP
- B. CTI/QBE
- C. SIP/SIMPLE
- D. LDAP
- E. XMPP

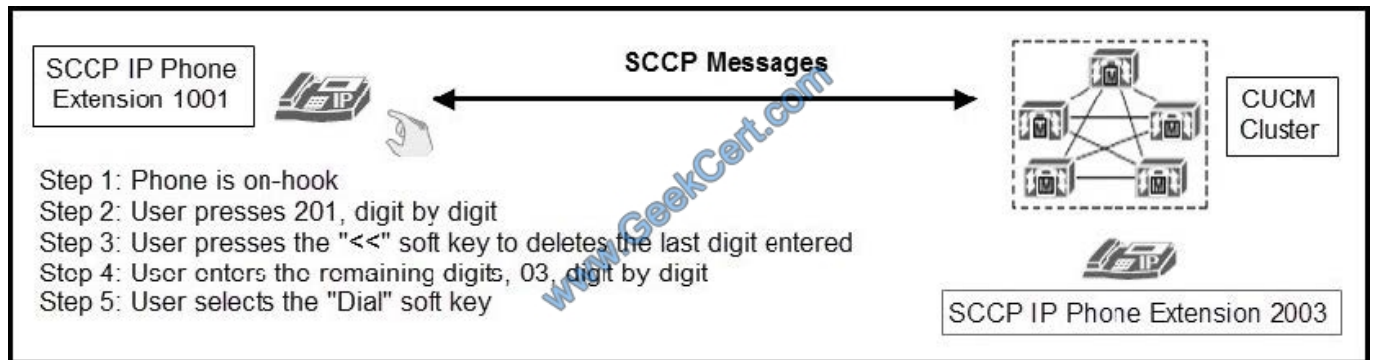
Correct Answer: C

To provide interoperability between communications systems, SIP is the protocol leveraged. Enterprise Presence solutions need to provide for a uniform definition of the main communication services such as IM, voice, video, e-mail, web calendaring, and so on, while SIP delivers the necessary features.

#### QUESTION 14



Refer to the exhibit.



A user is going through a series of dialing steps on an SCCP IP phone (extension 1001) to call another SCCP IP phone (extension 2003). Both phones are registered to the same Cisco Unified Communications Manager cluster. Which user inputs are sent from the calling IP phone to the Cisco Unified Communications Manager, in forms of SCCP messages, after the user pressed the Dial softkey? Note that the commas in answer choices below are logical separators, not part of the actual user input or SCCP messages.

A. A separate SCCP message is sent to Cisco Unified Communications Manager for each of the following user inputs: 2, 0, 0, 3.

B. A separate SCCP message is sent to Cisco Unified Communications Manager for each of the following user inputs: 2, 0, 1,



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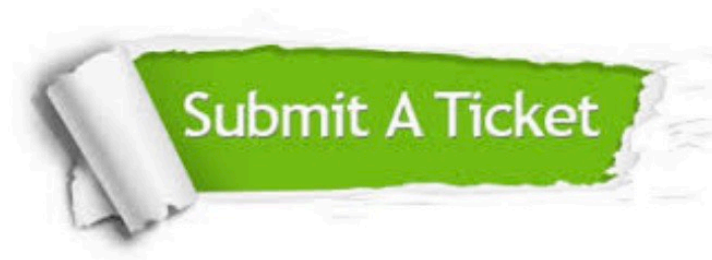
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