Cisco

Exam Questions 642-457

CIPT2 v8.0 Implementing Cisco Unified Communications Manager, Part 2 v8.0
1. Which method can be used to address variable-length dial plans?

A. Overlap sending and receiving.
B. Add a prefix for all calls that are longer than 10-digits long
C. Use nested translation patterns to eliminate inter-digit timeout
D. Use the @macro on the route pattern
E. Use MGCP gateways, which support variable-length dial plans

Answer: A

Explanation:
Incorrect answer: BCDE

If the dial plan contains overlapping patterns, Cisco Unified Communications Manager does not route the call until the interdigit timer expires (even if it is possible to dial a sequence of digits to choose a current match). Check this check box to interrupt interdigit timing when Cisco Unified Communications Manager must route a call immediately. By default, the Urgent Priority check box displays as checked. Unless your dial plan contains overlapping patterns or variable length patterns that contain!, Cisco recommends that you do not uncheck the check box.


2. Refer to the exhibit.
Which trunks would be most suitable for Connection Y?

A. an H.225 trunk (gatekeeper-controlled)
B. intercluster trunk (gatekeeper-controlled)
C. a SIP trunk on the U.S. cluster and an intercluster trunk on the remote cluster
D. intercluster trunk (nongatekeeper-controlled)
E. No extra connections are required. As long as IP connectivity exists, you need only configure a route pattern for each site. The Cisco Unified Communications Manager will automatically forward the calls over the WAN if the destination directory number is not registered locally.

Answer: D

3. Which two features require or may require configuring a SIP trunk? (Choose two.)

A. SIP gateway
B. Call Control Discovery between a Cisco Unified Communications Manager and Cisco Unified Communications Manager Express
C. Cisco Device Mobility
D. Cisco Unified Mobility
E. registering a SIP phone

Answer: A, B

Explanation:
Incorrect answer: CDE

All protocols require that either a signaling interface (trunk) or a gateway be created to accept and originate calls. Device mobility allows Cisco Unified Communications Manager to determine whether the phone is at its home location or at a roaming location. Cisco Unified Mobility gives users the ability to redirect incoming IP calls from Cisco Unified Communications Manager to different designated phones,
such as cellular phones.

Link: http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/8_6_1/ccmsys/a08sip.html#wpxref

4. A Cisco 3825 needs to be added in Cisco Unified Communications Manager as an H.323 gateway.

What should the gateway type be?
A. H.323 gateway
B. Cisco 3825
C. Cisco 3800 series router. The specific model will be selected after the Cisco 3800 is selected.
D. The gateway can be added either as an H.323 gateway or Cisco 3800 series router.
E. The gateway can be added either as an H.323 gateway or Cisco 3825 series router.

Answer: A

5. Which statement best describes globalized call routing in Cisco Unified Communications Manager?
A. All incoming calling numbers on the phones are displayed as an E.164 with the + prefix.
B. Call routing is based on numbers represented as an E.164 with the + prefix format.
C. All called numbers sent out to the PSTN are in E.164 with the + prefix format.
D. The CSS of all phones contain partitions assigned to route patterns that are in global format.
E. All phone directory numbers are configured as an E.164 with the + prefix.

Answer: B

Explanation:
Incorrect answer: ACDE

For the destination to be represented in a global form common to all cases, we must adopt a global form of the destination number from which all local forms can be derived. The + sign is the mechanism used by the ITU's E.164 recommendation to represent any PSTN number in a global, unique way. This form is sometimes referred to as a fully qualified PSTN number.


6. When an incoming PSTN call arrives at an MGCP gateway, how does the calling number get normalized to a global E.164 number with the + prefix in Cisco Unified Communications Manager?
A. Normalization is done using translation patterns.
B. Normalization is done using route patterns.
C. Normalization is done using the gateway incoming called party prefixes based on number type.
D. Normalization is done using the gateway incoming calling party prefixes based on number type.
E. Normalization is achieved by local route group that is assigned to the MGCP gateway.

Answer: D

Explanation:
Incorrect answer: ABCE

Configuring calling party normalization alleviates issues with toll bypass where the call is routed to multiple locations over the IP WAN. In addition, it allows Cisco Unified Communications Manager to distinguish the origin of the call to globalize or localize the calling party number for the phone user.

7. When an incoming PSTN call arrives at an MGCP gateway, how does the called number get normalized to an internal directory number in Cisco Unified Communications Manager?

A. Normalization is done by configuring the significant digits for inbound calls on the MGCP gateway.
B. Normalization is done using route patterns.
C. Normalization is done using the gateway incoming called party prefixes based on number type.
D. Normalization is done using the gateway incoming calling party prefixes based on number type.
E. Normalization is achieved by local route group that is assigned to the MGCP gateway.

Answer: A

8. Which process can localize a global E.164 with + prefix calling numbers for inbound calls to an IP phone so that users see the calling number in a local format?

A. Calling number localization is done using translation patterns.
B. Calling number localization is done using route patterns.
C. Calling number localization is done by configuring a calling party transformation CSS at the phone.
D. Calling number localization is done by configuring a calling party transformation CSS at the gateway.
E. Calling number localization is done by configuring the phone directory number in a localized format.

Answer: C

9. Refer to the exhibit.

The exhibit shows centralized Cisco Unified Communications Manager configuration components for TEHO calls to U.S. area code 408 from the U.K. The PSTN access code for the U.K. is 9 and 001 for international calls to the U.S.

To match the US-TEHO pattern +1, how should the translation pattern be configured?

A. 9001.4085551234 with the Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: +
B. 9.0014085551234 with the Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: +1
C. 900.14085551234 with the Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: +1
D. 900.14085551234 with the Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: +
E. 001.4085551234 with the Called Party Transformation:
   Prefix Digits Outgoing Calls: +

Answer: D

Explanation:

The PSTN access code for the UK is 9, International call code is 001, The international escape character, +, signifies the international access code in a complete E.164 number format.
10. Refer to the exhibit.

The exhibit shows centralized Cisco Unified Communications Manager configuration components for TEHO calls to U.S. area code 408 from the U.K. The PSTN access code for the U.K. is 9 and 001 for international calls to the U.S.

What should the TEHO-US route list configuration consist of?

A. First route group should point only to the U.K. gateway. The second route group should point to the U.S. gateway.

B. First route group should be only the local route group. The second route group should point to the U.S. gateway.

C. First route group should point only to the U.S. gateway. The second route group should be the local route group.

D. The TEHO-US route list should contain only the local route group. The globalized configuration means that the appropriate gateway will be selected automatically.

E. The \+! route pattern should point directly to the U.S. gateway.

Answer: C

Explanation:

Incorrect answer: ABD

The route group points to one or more gateways and can choose the gateways for call routing based on preference. The route group can serve as a trunk group by directing all calls to the primary device and then using the secondary devices when the primary is unavailable. One or more route lists can point to the same route group.


11. Refer to the exhibit.

The exhibit shows centralized Cisco Unified Communications Manager configuration components for TEHO calls to U.S. area code 408 from the U.K. The PSTN access code for the U.K. is 9 and 001 for international calls to the U.S. Assuming the PSTN does not accept globalized numbers with + prefix.

What should the Called Party Transformation Pattern at the U.S. gateway be configured as?

A. \+.! with the following Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: +

B. \+1.! with the following Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: None

C. \+408.! with the following Called Party Transformation:
   Discard Digits PreDot
   Prefix Digits Outgoing Calls: 1

D. \+1408.! with the following Called Party Transformation:
   Discard Digits PreDot
Prefix Digits Outgoing Calls: None

E. \+1.408! with the following Called Party Transformation:

Discard Digits PreDot

Prefix Digits Outgoing Calls: None

Answer: D

12. Refer to the exhibit.

Which configuration elements must match for adjacent neighbors to establish a SAF neighbor relationship?

A. the label name specified in the router eigrp command
B. the autonomous-system number specified in the service-family ipv4 autonomous-system command
C. the sf-interface configuration
D. the topology base configurations
E. the label name specified in the router eigrp command and the autonomous-system number

Answer: B

Explanation:
Incorrect answer: ACDE

Service-family ipv4 autonomous-system 1 enables a Cisco SAF service family for the specified autonomous system on the router


13. Which statement about Service Advertisement Framework is true?

A. SAF requires that the EIGRP be configured on all routers, including non-SAF routers.
B. SAF requires that the EIGRP be configured only on SAF routers. Non-SAF routers act as an IP cloud.
C. SAF has no dependency on the underlying routing protocol, as long as it is a dynamic routing protocol. Static routes are not supported.
D. SAF operates on any dynamic or static IP routing configuration. SAF is totally independent of the underlying routing protocol.

Answer: D

Explanation:
Because Cisco SAF is independent of IP routing and uses underlying Cisco routing technology to distribute service advertisements in a reliable and efficient manner, Cisco SAF will run in networks over any routing protocol they may have in place such as Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), Exterior Border Gateway Protocol (EBGP) over an MPLS service, or static routing (Figure 2).


14. Assume that the Cisco IOS SAF Forwarder is configured correctly.

Which minimum configurations on Cisco Unified Communications Manager are needed for the SAF registration to take place?
A. SAF Trunk, SAF Security Profile, SAF Forwarder, and CCD Advertising Service
B. SAF Trunk, SAF Security Profile, SAF Forwarder, and CCD Requesting Service
C. SAF Trunk, SAF Security Profile, SAF Forwarder, and CCD Requesting Service, and CCD Advertising Service
D. SAF Trunk, SAF Security Profile, and SAF Forwarder
E. SAF Trunk, CCD Requesting Service, and CCD Advertising Service

Answer: B

15. Refer to the exhibit.
What should the destination IP address be configured as on the HQ and BR1 SIP trunks?
A. The HQ SIP trunk destination IP address should be 10.1.6.10. The BR1 SIP trunk destination IP address should be 10.1.5.10.
B. The destination IP address is not configurable. Each cluster will learn about the remote trunk IP address through SAF learned routes.
C. The destination IP address will be learned automatically and configured on the SIP trunks after the Cisco Unified Communications Managers discover themselves.
D. The HQ SIP trunk destination IP address should be the HQ SAF Forwarder IP address. The BR1 SIP trunk destination IP address should be the BR1 SAF Forwarder IP address.

Answer: B

Explanation:
Incorrect answer: ACD
The gatekeeper changes the IP address of this remote device dynamically to reflect the IP address of the remote device.

16. When a SIP trunk is added for Call Control Discovery, which statement is true?
A. The SIP trunk is added by selecting SIP Trunk and SIP Protocol. The Enable SAF check box should be selected.
B. The SIP trunk is added by selecting SIP Trunk and SIP Protocol. The Trunk Service Type should be Call Control Discovery.
C. The SIP trunk is added by selecting Call Control Discovery Trunk and then selecting SIP as the protocol to be used.
D. The SIP trunk is added by selecting SIP Trunk and SIP Protocol. The destination IP address field is configured as SAF to indicate that this trunk is used for SAF.

Answer: B

17. When an H.323 trunk is added for Call Control Discovery, which statement is true?
A. The H.323 trunk is added by selecting Inter-Cluster Trunk (Non-Gatekeeper Controlled) and Device Protocol Inter-Cluster Trunk. The Enable SAF check box should be selected in the trunk configuration.
B. The H.323 trunk is added by selecting Inter-Cluster Trunk (Non-Gatekeeper Controlled) and Device Protocol Inter-Cluster Trunk. The Trunk Service Type should be Call Control Discovery.
C. The H.323 trunk is added by selecting Call Control Discovery Trunk and then selecting H.323 as the protocol to be used.

Answer: B
D. The H323 trunk is added by selecting H.323 Trunk, and selecting Inter-Cluster Trunk as the Device Protocol. The destination IP address field is configured as SAF to indicate that this trunk is used for SAF.

Answer: A

Explanation:

Reference: Implementing Cisco Unified Communications Manager Part 2 (CIPT2), Chapter 3: Implementing Multisite Connections, pg 70-71, Fig 3-14 and Fig 3-15

18. Refer to the exhibit.

What must be configured on the HQ Cisco Unified Communications Manager to allow HQ users to dial the SAF learned directory number pattern 3XXX?

A. Route pattern 3XXX should be configured and made available to HQ users through the phone CSS.

B. Route pattern 3XXX should be configured and made available to HQ phone users through the phone AAR CSS.

C. The SAF partition assigned to the SAF learned patterns must be available to the HQ phone users through the phone CSS.

D. The SAF partition assigned to the SAF learned patterns must be available to the HQ phone users through the phone AAR CSS.

E. The SAF directory number pattern 3XXX will be made available to all users automatically as soon as the SAF partition is selected.

Answer: C

Explanation:

Incorrect answer: ABD

By adopting the SAF network service, the call control discovery feature allows Cisco Unified Communications Manager to advertise itself along with other key attributes.


19. Refer to the exhibit.

Which CSS is used at the HQ Cisco Unified Communications Manager to reroute calls via the PSTN when the SAF network is unavailable?

A. the phone device CSS

B. the phone line CSS

C. the phone line/device combined CSS

D. the SAF CSS configured on the CCD requesting service

E. the phone AAR CSS configured at the phone device

F. No special CSS is required. If SAF patterns are accessible, the PSTN reroute is automatic.

Answer: E

20. Refer to the exhibit.

How does the Cisco Unified Communications Manager advertise dn-block 1?

A. 4XXX and the ToDID will 0:

B. 4XXX and the ToDID will 0:1972555
C. 4XXX

D. 4XXX and the ToDid will 0:+ 1972555

E. 19725554XXX

Answer: B
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