



642-437^{Q&As}

Implementing Cisco Unified Communications Voice over IP and QoS
v8.0 (CVOICE v8.0)

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QUESTION 1

Which digit manipulation feature allows a partial telephone number to be prepended with a specific set of digits and is applied to all calls?

- A. digit prefixes
- B. forward digits
- C. digit extension
- D. number expansion

Correct Answer: D

QUESTION 2

What is the prerequisite for configuring Cisco AutoQoS VoIP on a Cisco catalyst switch?

- A. Configure correct bandwidth on all interfaces.
- B. Configure Cisco Express Forwarding.
- C. Configure trust boundaries.
- D. Cisco Discovery Protocol version 2.
- E. Configure the mls qos global configuration command.

Correct Answer: D

QUESTION 3

Drag the attributes of a scalable numbering plan from the left and place them in the boxes on the right.

Select and Place:



Drag the attributes of a scalable numbering plan from the left and place them in the boxes on the right.

Provides summarization.	
Flat numbering plan.	
Distribution of dial plan logic.	
Conforms to international and private standards.	
Simplicity in provisioning.	
Reduces post-dial delay.	
Availability and fault tolerance.	
Complex call routing.	
Requires management from multiple points in the network.	

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Correct Answer:



Drag the attributes of a scalable numbering plan from the left and place them in the boxes on the right.

	Distribution of dial plan logic.
Flat numbering plan.	Provides summarization.
	Simplicity in provisioning.
Conforms to international and private standards.	Reduces post-dial delay.
	Availability and fault tolerance.
Complex call routing.	
Requires management from multiple points in the network.	

Explanation/Reference:

When designing a large-scale dial plan, Cisco recommends you adhere to the following attributes:

- Logic distribution: Good dial plan architecture relies on the effective distribution of the dial plan logic among the various components. Devices that are isolated to a specific portion of the dial plan reduce the complexity of the configuration.

Each component focuses on a specific task accomplishment.

Generally, the local switch or gateway handles details that are specific to the local point of presence (POP). Higher-level routing decisions are passed along to the gatekeepers and PBXs. A well-designed network places the majority of the dial

plan logic at the gatekeeper devices.

- Hierarchical design (scalability): You should attempt to keep the majority of the dial plan logic (routing decisions and failover) at the highest-component level. Maintaining a hierarchical design makes the addition and deletion of number

groups more manageable. Scaling the overall network is much easier when configuration changes are made to a single component.

- Simplicity in provisioning: Keep the dial plan simple and symmetrical when designing a network. Try to keep consistent dial plans on the network by using translation rules to manipulate the local digit dialing patterns. These number patterns



are normalized into a standard format or pattern before the digits enter the VoIP core. Putting digits into a standard format simplifies provisioning and dial-peer management.

- Reduction in postdial delay: Consider the effects of postdial delay in the network when you design a large-scale dial plan. Postdial delay is the time between the last digit dialed and the moment the phone rings at the receiving location. In the

PSTN, people expect a short postdial delay and to hear ringback within seconds. The more translations and lookups that take place, the longer the postdial delay becomes. Overall network design, translation rules, and alternate pathing affect

postdial delay.

Therefore, you should efficiently use these tools to reduce postdial delay.

- Availability and fault tolerance: Consider overall network availability and call success rates when you design a dial plan. Fault tolerance and redundancy within VoIP networks are most important at the gatekeeper level. By using an alternate

path you help provide redundancy and fault tolerance in the network.

- Conformance to public standards: Different geographical locations might impose restrictions to your dial plan. Therefore, familiarize yourself with any such limitations prior to designing your dial plan.

QUESTION 4

Drag the appropriate IOS command from left and drop them in the spaces on the order to configure Cisco Unified Border Element. The ITSP does not support early offer. Not all boxes are used.

Select and Place:

Drag the appropriate IOS command from the left and drop them in the spaces on the right in order to configure Cisco Unified Border Element. The ITSP does not support early offer. Not all boxes are used.

allow-connections sip to h323		<pre style="border: 1px solid black; padding: 5px; width: 80%; margin: 0 auto;"> dial-peer voice 10 voip description To Cisco Unified CME destination-pattern 1... session target ipv4:10.1.5.2 dtmf-relay h245-alphanumeric ! dial-peer voice 20 voip description To ITSP destination-pattern 8T session protocol sip2 session target ipv4:10.140.1.1 dtmf-relay rtp-nte digit-drop </pre>
registrar server		
call start fast		
allow-connections sip to sip		
voice service voip		
allow-connections h323 to sip		
sip		
call start interwork		
h323		



Correct Answer:

Drag the appropriate IOS command from the left and crop them in the spaces on the right in order to configure Cisco Unified Border Element. The ITSP does not support early offer. Not all boxes are used.

	voice service voip
registrar server	allow-connections sip to h323
call start fast	allow-connections h323 to sip
allow-connections sip to sip	h323
	call start interwork
	sip

```

dial-peer voice 10 voip
description To Cisco Unified CME
destination-pattern 1...
session target ipv4:10.1.5.2
dtmf-relay h245-alphanumeric
!
dial-peer voice 20 voip
description To ITSP
destination-pattern 8T
session protocol sipv2
session target ipv4:10.140.1.1
dtmf-relay rtp-nte digit-drop
            
```

Explanation/Reference:

Configuring an IP IP Gateway:

Call direction and translation section

voice service voip - Enters VoIP voice-service configuration mode

allow-connections from-type to to-type - Allows connections between specific types of endpoints in an Cisco Unified Border Element. Arguments are as follows:

- from-type - Type of connection. Valid values: h323, sip.
- to-type - Type of connection. Valid values: h323, sip.

Main protocol section

h323

call start interwork - Enables slow-start to fast-start interworking

sip

<http://www.cisco.com/en/US/docs/ios/voice/cube/configuration/guide/vb-gw-config.html>

QUESTION 5

The file "apps31.9-1-1TH1-16.sbn" is located in the flash memory of the device. Which command should you enter on a



Cisco IOS device to serve this file correctly using Trivial File Transfer Protocol?

- A. tftp-server flash:apps31.9-1-1TH1-16.sbn
- B. tftp-server apps31.9-1-1TH1-16.sbn
- C. copy tftp flash:apps31.9-1-1TH1-16.sbn
- D. tftp server:apps31.9-1-1TH1-16.sbn

Correct Answer: A

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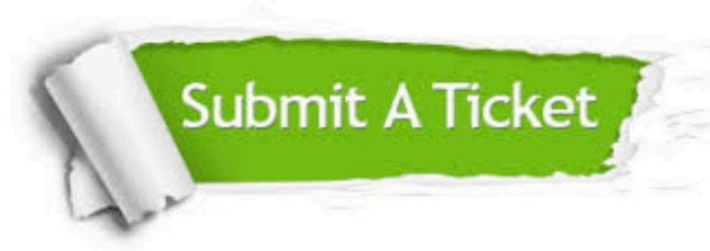
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