



642-437^{Q&As}

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

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QUESTION 1

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.	

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 2

In which situation would the trust boundary be located at the access layer?

- A. if the endpoints, both IP phones and PCs, are incapable of marking traffic properly
- B. if PCs are switched through an IP phone and the IP phone traffic can be trusted to mark both traffic streams properly
- C. if the access layer switch cannot trust or re-mark incoming traffic from endpoints properly
- D. if there are endpoints that cannot be trusted and connect directly to the distribution layer

Correct Answer: A

QUESTION 3

Which type of voice port supports immediate-start, wink-start, and delay-start followed by pulse or DTMF tones?

- A. FXS
- B. FXS-DID
- C. FXO
- D. EandM

Correct Answer: D



QUESTION 4

Which two gateway protocols can be configured if you have Cisco 2600XM or 3700 Series Multiservice Routers installed? (Choose two.)

- A. MGCP
- B. SIP
- C. H.323
- D. SCCP

Correct Answer: AC

QUESTION 5

Which option is used within a dial plan to define the destination that a user is allowed to call?

- A. dial peers
- B. calling peers
- C. calling privileges
- D. destination patterns

Correct Answer: C

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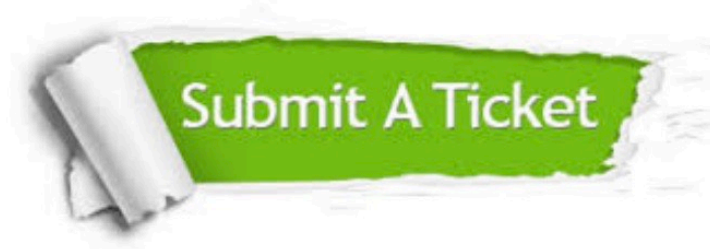
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