



300-070^{Q&As}

Implementing Cisco IP Telephony & Video, Part 1 v1.0

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QUESTION 1

What is a VoIP dial peer?

- A. A nonaddressable call endpoint.
- B. A call routing mechanism to send and receive calls based on called or calling digits.
- C. A physical connection for call legs.
- D. A logical connection for call legs.

Correct Answer: B

QUESTION 2

When a call is attempted during a particular time of day, what determines the partitions where calling devices search?

- A. time schedules
- B. calling periods
- C. dial schedules
- D. time periods

Correct Answer: A

QUESTION 3

What is the difference between policing and shaping?

- A. Policing: Transmit and mark, then transmit the packets. Shaping: Buffer the exceeding packets.
- B. Policing: Transmit the packets. Shaping: Buffer the exceeding packets.
- C. Policing: Transmit, drop or mark, then transmit the packets. Shaping: Buffer the exceeding packets.
- D. Policing: Buffer the exceeding packets. Shaping: Transmit and mark, then transmit the packets.

Correct Answer: C

QUESTION 4

Which DiffServ PHB classification is recommended by Cisco for interactive video traffic?

- A. AF31
- B. CS3



- C. EF
- D. AF41
- E. CS4

Correct Answer: D

QUESTION 5

Refer to the exhibit.

When a user dials 919005551212, the call fails. Which change do you need to make for this call to be successful?

- A. Change the route partition.
- B. Change the gateway or route list.
- C. Change the route pattern to the correct number of digits.



- D. Change the call classification to OnNet.
- E. Change the route option.

Correct Answer: E

QUESTION 6

What are two characteristics that are associated with the End User and User account types? (Choose two.)

- A. They cannot use LDAP.
- B. They are used to authorize applications.
- C. They can utilize LDAP.
- D. The Application is associated with the End User and User account types.
- E. They can be listed in a directory.

Correct Answer: CD

QUESTION 7

Every VoIP endpoint must select one specific codec. Which of these codecs is the mandatory codec?

- A. G.729
- B. G.728
- C. G.722
- D. G.711
- E. H.264

Correct Answer: D

QUESTION 8

To verify that proper digit manipulation is being applied when using called party transformation patterns, which Cisco IOS command do you use from the router or voice gateway?

- A. show voice ccapi inout
- B. debug voice ccapi in
- C. show voice ccapi
- D. show voice ccapi in



- E. debug voice ccapi inout
- F. debug voice ccapi out
- G. show voice ccapi out

Correct Answer: E

Explanation/Reference:

Reference: <http://www.netcraftsmen.com/called-party-transformation-patterns-example-andvalidation/>

QUESTION 9

On what equipment do you configure Layer 2 to Layer 3 QoS mapping?

- A. switch
- B. router
- C. firewall
- D. Cisco Unified Communications Manager
- E. bridge

Correct Answer: A

Explanation/Reference:

Explanation: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/31sg/configuration/guide/conf/qos.html>

QUESTION 10

A customer recently installed a Cisco TelePresence MCU 5320. The customer wants a virtual meeting room that restricts participants from communicating before the customer joins the call.

Which feature in the MCU enables this functionality?

- A. Floor and chair control.
- B. Numeric ID.
- C. PIN codes.
- D. Owner.

Correct Answer: A

QUESTION 11



In a multisite deployment, which two voice codecs are recommended to use between intrasite endpoints? (Choose two)

- A. G.711
- B. G.728
- C. H.264
- D. G.722
- E. G.729

Correct Answer: AD

QUESTION 12

When CUCM is configured with a route pattern, translation ____ transformation, which is matched first when a user dials 914085551212?

- A. route pattern
- B. translation pattern
- C. called-party transformation
- D. calling-party transformation

Correct Answer: B

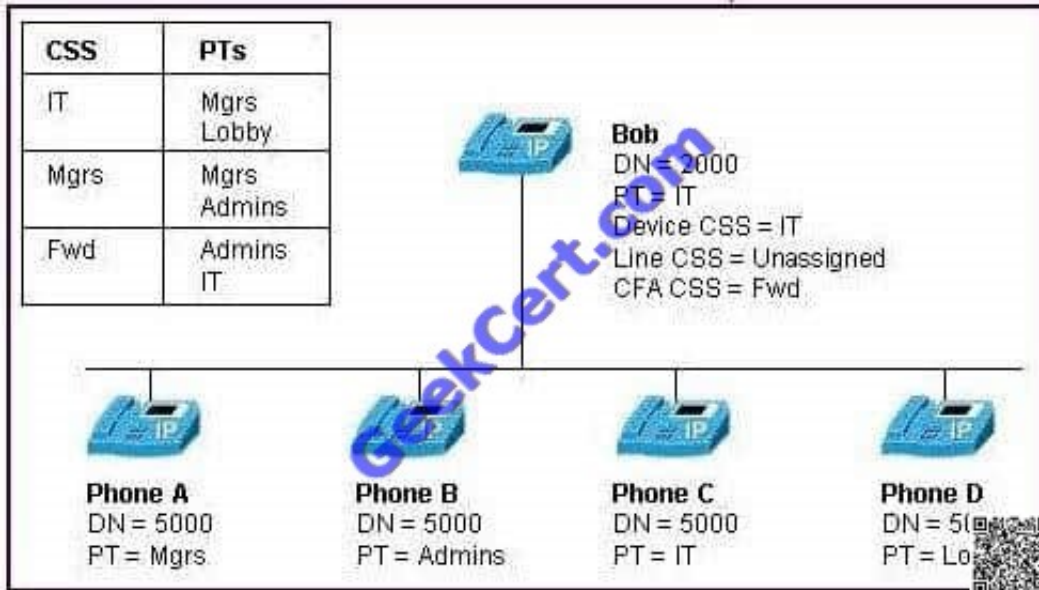
Explanation/Reference:

Link: http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/8_5_1/ccmcf/b03txpat.htm

Route pattern is used to route calls to external entities. The calling and called party numbers resulting from the digit transformations configured in the route pattern and/or route lists are then processed by any Transformation Patterns configured for the devices contained in the chosen Route Group.

QUESTION 13

Refer to the exhibit. Bob has set his phone to forward calls to extension 5000. When a call is placed to extension 2000, which phone will ring?



- A. Phone A
- B. Phone B
- C. Phone C
- D. Phone D

Correct Answer: B

QUESTION 14

In a centralized call-processing solution, there are five sites connected through an IP WAN. To optimize the utilization of the IP WAN, CAC needs to be implemented.

How should CAC be implemented?

- A. Use a gatekeeper to control allocated bandwidth properly.
- B. Use locations CAC with a single location.
- C. Use a gatekeeper and Cisco Unified Border Element to provide CAC to sites that use a combination of SIP and MGCP gateways.
- D. Use a gatekeeper to only control those locations that use H.323 gateways and a Cisco Unified Border Element to control those sites that use MGCP or SIP gateways.
- E. Use locations CAC with five locations in addition to Hub none.

Correct Answer: E

QUESTION 15



If no SIP dial rules are configured on an IP phone, at which three points in the collection of digits does a Type A SIP phone send digits to the Cisco Unified Communications Manager? (Choose three.)

- A. when the interdigit timer expires
- B. when the collected digits match a SIP dial rule
- C. when the user presses the Dial softkey
- D. as each digit is collected (it is sent for analysis)
- E. when the user presses the # key

Correct Answer: ACE

QUESTION 16

Which CUCM default global conference setting should be changed to ensure fraud prevention?

- A. Advanced Ad Hoc Conference Enabled.
- B. Block OffNet to OnNet Transfer.
- C. MCU Conference Bridge Custom Layout Index.
- D. Drop Ad Hoc Conference.
- E. Enable Click-to-Conference for Third-Party Applications.

Correct Answer: D

QUESTION 17

If you have configured translation rules, what command do you use to verify digit manipulation?

- A. execute translation-rule
- B. show translation-rule
- C. test translation-rule
- D. debug translation-rule
- E. set translation-rule

Correct Answer: C

Explanation/Reference:

If you have configured translation rules, use the test translation-rule command to verify digitmanipulation. Page 136.



QUESTION 18

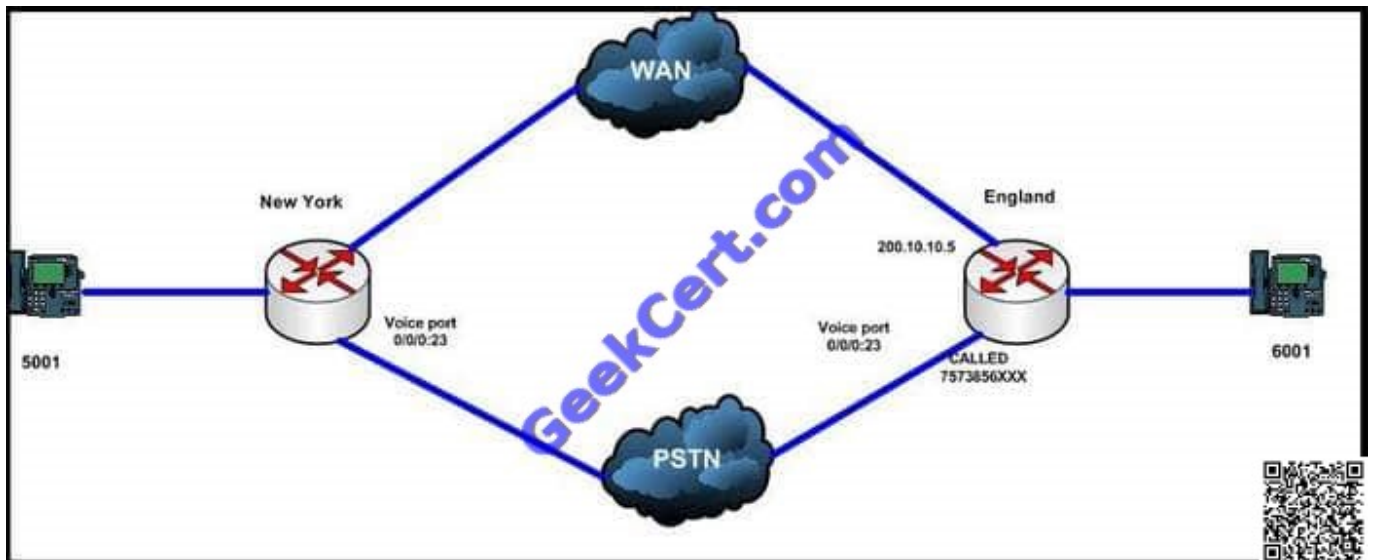
Which three types of devices can you test with the Cisco Unified Communications Manager Dialed Number Analyzer tool? (Choose three)

- A. Fax/Modem.
- B. Trunks.
- C. Gateways.
- D. Cisco ASA Adaptive Security Appliances.
- E. Cisco Catalyst Switches.
- F. Phones.

Correct Answer: ACF

QUESTION 19

Refer to the exhibit and configuration output.



A user in New York (5001) is trying to call a user in London (6001), but the call cannot be completed. Assuming that the WAN uplink is failing and the voice traffic has to go out toward the PSTN, which command do you need to add to dial peer to solve this issue?

dial-peer voice 3 pots

destination-pattern 6...

preference 1 port 0/0/23

dtmf-relay sip-notify

A. num-exp 512602 6001



- B. prefix 757385
- C. forward-digits 2
- D. forward-digits 4
- E. prefix 5126

Correct Answer: B

QUESTION 20

The CSS on a line includes the partitions 911, internal and local. The CSS on the device includes the partitions 911, internal, local and long distance. Which CSS will be used if the phone user dials a local number?

- A. The device CSS will be used since the device CSS is always used first on an IP phone.
- B. Since the dialed digits are a match to a partition in both Calling Search Spaces the call will use both matched partitions in both Calling Search Spaces in a round-robin format.
- C. If there is both a line and device CSS the line device will only be used.
- D. The line and device CSSs will be combined and the device CSS will take precedence.
- E. The line and device CSSs will be combined and the line CSS will take precedence.

Correct Answer: E

QUESTION 21

Which of these determines the Cisco Unified Communications Manager server to which an IP phone registers?

- A. The Cisco Unified Communications Manager group is configured with a Device Pool that designates the primary, secondary, and tertiary servers in the group.
- B. Each IP phone is configured with a Device Pool containing the Cisco Unified Communications Manager group that determines which server the IP phone will use as its primary, secondary, and tertiary server.
- C. Each IP phone is configured with its primary, secondary, and tertiary server.
- D. The Cisco Unified Communications Manager group is configured in the publisher to designate the IP phone groups that will register with the primary, secondary, and tertiary servers in the group.

Correct Answer: B

QUESTION 22

Which two of these describe where phone services can appear on an IP phone and who can subscribe to phone services? (Choose two.)

- A. end user



- B. administrator
- C. end user and administrator
- D. Services button
- E. Services and Directories buttons
- F. Services, Directories, and Messages buttons

Correct Answer: CF

QUESTION 23

An engineer configures a router with an ISDN PRI connection that only contains two dial peers as follows:

```
dial-peer voice 10 pots
```

```
destination-pattern 9T
```

```
port 0/0/0:23
```

```
dial-peer voice 100 voip
```

```
destination-pattern 45..
```

```
session target ipv4:10.2.10.1
```

When an inbound call is placed from the PSTN to extension 4510, a dial tone is heard. Which additional dial peer is needed to allow the call to terminate directly to the internal number?

- A. dial-peer voice 1 pots answer-address . direct-inward-dial
- B. dial-peer voice 1 pots destination-pattern 45.. direct-inward-dial
- C. dial-peer voice 1 pots incoming called-number . direct-inward-dial
- D. dial-peer voice 1 pots destination-pattern 45.. port 0/0/0:23 direct-inward-dial

Correct Answer: C

QUESTION 24

Which three CLI commands allow you to verify the correct VoIP dial-peer matching? (Choose three.)

- A. debug ccsip messages
- B. debug voip ccapi inout
- C. debug dialpeer match
- D. debug voip dialpeer inout



E. show dialplan number

Correct Answer: BDE

QUESTION 25

Which two algorithms are valid to distribute calls in a route group? (Choose two.)

- A. broadcast
- B. circular
- C. top-down
- D. bottom-up
- E. round-robin

Correct Answer: BC

Explanation/Reference:

Reference:

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/admin/7_1_2/ccmcfg/bccm-712cm/b03rtgrp.pdf (page 2)

QUESTION 26

A Cisco Unified Communications Manager group specifies a prioritized list of how many Cisco Unified Communications Managers?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 5
- G. 6
- H. 7

Correct Answer: D

QUESTION 27



Refer to the exhibit. When Bob dials extension 5000, which phone will ring?



- A. Phone A
- B. Phone B
- C. Phone C
- D. Phone D

Correct Answer: A

QUESTION 28

Which two of the following DSPs can be used in heterogeneous conferencing to achieve the required trans-sizing and transcoding functionality? (Choose two.)

- A. PVDM3-256
- B. PVDM2-256
- C. PVDM-192
- D. PVDM3-32
- E. PVDM3-192
- F. PVDM2-128

Correct Answer: AE

QUESTION 29



What is the process of digit matching?

- A. Cisco Unified Communications Manager first performs a digit-by-digit analysis, looking for patterns that match the internal directory numbers. If no match is found, the dialed string is matched against the route patterns.
- B. Cisco Unified Communications Manager collects all digits and compares them en bloc for patterns that match the internal directory numbers. If no match is found, the dialed string is matched against the route patterns.
- C. Cisco Unified Communications Manager performs a digit-by-digit analysis, looking for patterns that match the internal directory numbers and ones that match the route patterns simultaneously.
- D. Cisco Unified Communications Manager collects all digits and compares them en bloc for patterns that match the internal directory numbers and ones that match the route patterns simultaneously.

Correct Answer: C

QUESTION 30

Which option describes how you add software conference bridges to Cisco Unified Communications Manager?

- A. By adding a Cisco Unified CM server to the cluster.
- B. By adding a software conference bridge using Conference Bridge Configuration.
- C. By installing DSP to a Cisco Unified CM server.
- D. By reassigning other media resources to conference resources.

Correct Answer: A

QUESTION 31

Which two describe how media resources and audio streams operate with Cisco Unified

Communications Manager? (Choose two.)

- A. Audio streams are terminated differently depending on the signaling protocol, such as SCCP or SIP.
- B. Audio streams are always terminated by media resources.
- C. All media resources register with Cisco Unified Communications Manager.
- D. There are no situations in which IP phone-to-IP phone audio streams will go directly between endpoints.
- E. Signaling between Cisco Unified Communications Manager and hardware media resources uses the same protocol as the call-signaling type.

Correct Answer: BC

QUESTION 32



Which three statements about the default VoIP dial peer are true? (Choose three.)

- A. VAD is disabled.
- B. RSVP is not supported.
- C. Only the G.711 codec is supported.
- D. The G.729 and G.711 codecs are supported.
- E. Fax-rate service is supported.
- F. DTMF relay is supported.

Correct Answer: BDE

QUESTION 33

Which discard digits instruction removes all digits prior to the North American Numbering Plan portion of the route pattern?

- A. PreDot
- B. PreAt
- C. Pre
- D. PreNANP

Correct Answer: B

QUESTION 34

If a SIP phone has neither KPML nor a set of dial rules configured, how are digits sent to Cisco Unified Communications Manager for further processing?

- A. the user must press the # key
- B. the user must press the Dial softkey
- C. the user must press the enbloc softkey
- D. when the user finishes dialing, the digits will be sent automatically

Correct Answer: B

QUESTION 35

What are three features of Cisco Unified Border Element? (Choose three).

- A. Protocol Interworking.



- B. Bandwidth Control.
- C. Admission Request.
- D. Automated Alternate Routing.
- E. Address Hiding.
- F. Security.
- G. Video Integration.

Correct Answer: AFG

QUESTION 36

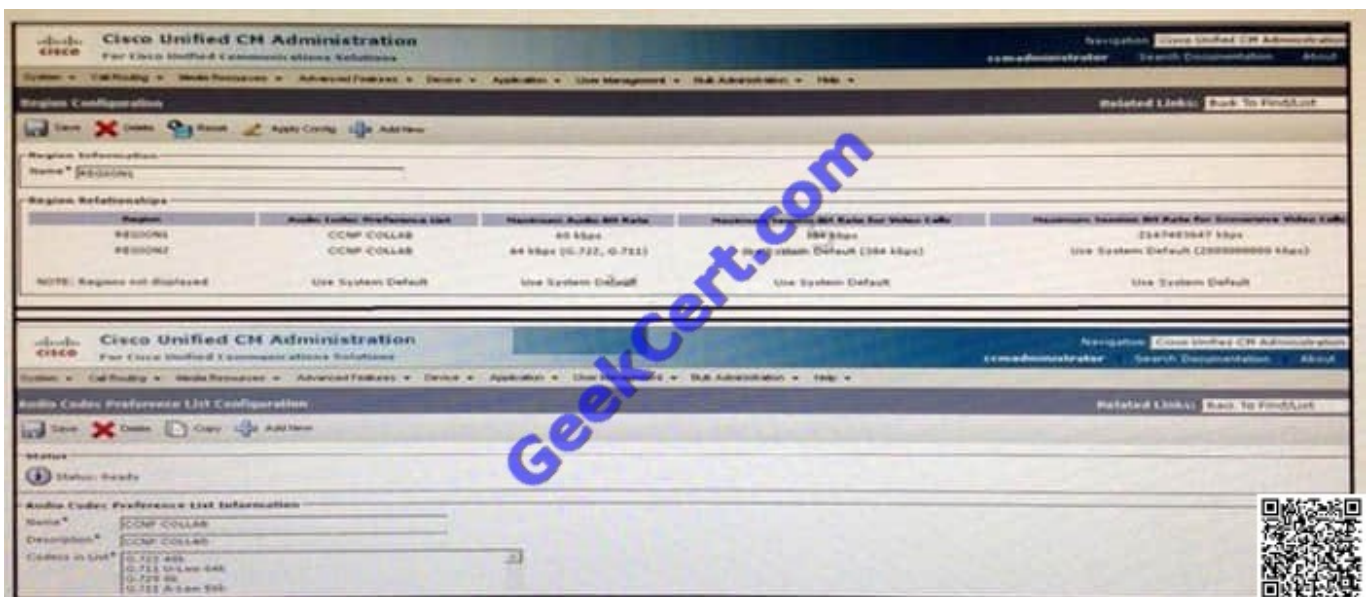
Which statement about the relationship between gateways and route groups is true?

- A. Each gateway can belong to only one route group and can be listed only once within that route group.
- B. Each gateway can belong to only one route group and can be listed multiple times within that route group.
- C. Each gateway can belong to multiple route groups and can be listed only once within each route group.
- D. Each gateway can belong to multiple route groups and can be listed multiple times within each route group.

Correct Answer: C

QUESTION 37

Refer to the exhibit.



An engineer is troubleshooting a codec negotiation issue where both endpoints that are involved in the call support the



codecs listed in the exhibit. Which audio codec is selected if a call between two endpoints in Region 1 is placed?

- A. G722
- B. G729
- C. G711a
- D. G711u

Correct Answer: A

QUESTION 38

Which two Cisco products allow the use of a dial plan with E.164, H.323, SIP, and DNS? (Choose two.)

- A. Cisco Expressway
- B. Cisco Unified Communications Manager
- C. Cisco Unified Border Element
- D. Cisco IM and Presence
- E. Cisco TelePresence Video Communication Server

Correct Answer: AE

QUESTION 39

What is the correct procedure for implementing call coverage?

- A. configure directory numbers, partitions, hunt pilot, hunt list, line groups
- B. configure partitions, line groups, hunt lists, hunt pilot, directory numbers
- C. configure partitions, directory numbers, line groups, hunt lists, hunt pilot
- D. configure partitions, directory numbers, hunt pilot, hunt list, line groups

Correct Answer: C

QUESTION 40

When dialing off-hook from an SCCP phone, how does Cisco Unified Communications Manager analyze the incoming dialed digits?

- A. SIP dial rules
- B. en bloc dialing



C. digit-by-digit analysis

D. KPML

Correct Answer: C

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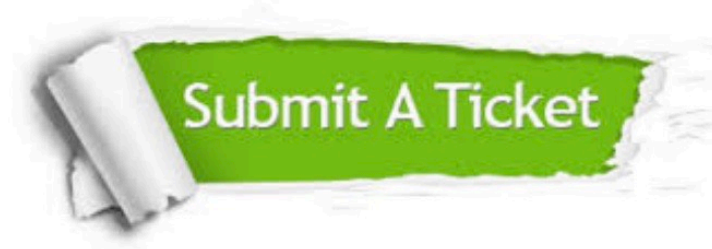
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