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Exam Code: 642-444 IP Telephony Exam (CIPT)

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QUESTION 1

What is required for the Barge feature to work?

- A. a conference bridge
- B. a shared line
- C. a conference already in process
- D. a multiple line appearance

Answer: B

Barge and Privacy

The Barge and Privacy features work with each other. Both features work with only shared lines.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_administration_guide_chapter09186a

QUESTION 2

Four geographic regions have defined for an IP telephony deployment: Southern Germany, Northern Germany, Austria, and, Hungary. Although voice bandwidth within a region is not constrained, voice bandwidth between regions is constrained. When you configure CallManager, select the most appropriate codec to configure between the Austriaregion and the other regions.

- A. G.711
- B. G.722
- C. G.726
- D. G.728
- E. G.729
- F. Wideband

Answer: E

QUESTION 3

The incidence of rogue phones gaining network access has dropped to zero. Which security solution has most likely been deployed?

- A. implementing approved anti-virus software
- B. applying O/S patches regularly and often
- C. deploying a well-configured firewall
- D. requiring signed firmware loads
- E. requiring password logins for phone usage
- F. deploying secure RTP

Answer: E

QUESTION 4

Which three of the following can be assigned a calling search space? Select three.

- A. gateway
- B. directory number
- C. Meet-Me number
- D. route pattern
- E. IP phone

Answer: A, B, E

QUESTION 5

What Extension Mobility parameter limits the number of phones to which a user may log in?

- A. maximum login Limit
- B. maximum concurrent request
- C. multi concurrent usage
- D. multi login behavior

Answer: D

Explanation:

Multi login behavior : specifies the behavior for multiple attempted logins by the same user on different devices. The choices are to allow, not allow, and cause a previous login to automatically log out.

Incorrect answers:

Maximum concurrent request : specifies the maximum number of login or logout operations which can occur simultaneously This maximum prevents the Extension Mobility service from consuming excessive system resources.

There are no such parameters : maximum login Limit or multi concurrent usage

QUESTION 6

What is one reason a certificate is used within Cisco CallManager?

- A. to provide licensing data
- B. to list firmware revision
- C. to provide source authentication
- D. to validate signaling

Answer: C

QUESTION 7

Itexamworld .com has three locations connected via an IP WAN. Each location has a CallManager cluster, and the headquarters cluster is connected to all other clusters via intercluster trunks. Itexamworld .com wants to allow up to 8 simultaneous calls across the IP WAN. To call between sites, employees dial a 2 digit access code plus the 4 digit extension. If more than 8 calls are made, or if the IP WAN is not available, calls should be sent to

Itexamworld .com's preferred long distance carrier. If the trunk to the long distance carrier is not available, the local provider should be used. The long distance carrier requires 10 digits to complete a long distance call. The local provider requires 11 digits to complete a long distance call but only 7 digits for local calls. What is the minimum number of route required at the headquarters location?

- A. 1
- B. 2
- C. 3
- D. 6

Answer: B

QUESTION 8

Which multiple line appearance parameter sets a number of calls per line beyond which all incoming calls are forwarded?

- A. Maximum Number of Calls
- B. Call Forward Busy
- C. No Answer Ring Duration
- D. Busy Trigger

Answer: D

Call Forward Busy Trigger

Some users might wish to have incoming calls routed to a CFB destination earlier than reaching the maximum number of calls

allowed per line appearance. The Busy Trigger feature is present in Cisco CallManager 4.0 to satisfy these users' requirements. If

all the devices that share a particular line are busy, the call to that specific DN is rejected with a busy cause. If the CFB

destination is set for that DN, this rejected call is routed to the CFB destination.

The Busy Trigger is database configurable per line appearance and per cluster. It cannot exceed the maximum number of calls

set for this DN. The default value for MCD devices is set to 2. By default, this busy trigger is one for non-MCD devices. As the

maximum number of calls is already limited to 2, this cannot be set for more than 2.

See Table-2 for a comparison of CFB in Cisco CallManager 3.x and Cisco CallManager 4.0.

Table-2

	MCD Device	MCD Device	Non-MCD Device	Non-MCD Device
	Cisco CallManager 4.0	Cisco CallManager 3.x	Cisco CallManager 4.0	Cisco CallManager 3.x
CFB trigger per DN	Less than or equal to the maximum number of calls (default 2)	Equal to 1 (Call Waiting disabled) Equal to 2 (Call Waiting enabled)	Less than or equal to the maximum number of calls (default 1)	Equal to 1 (Call Waiting disabled) Equal to 2 (Call Waiting enabled)

This Busy Trigger replaces the Call Waiting Flag per DN. During migration, if the Call Waiting Flag is set to true, the busy trigger is set to 2. Otherwise, it is set to 1.

Reference:

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_tech_note09186a00801f3b4e.shtml#

Note: B could also be correct

QUESTION 9

An IP phone user has dialed "15152412232". Which of the following route patterns will be used?

- A. 1515[^0-1]4[123]+
- B. 1515[^0-2]4[12]+
- C. 1515[^0-1]41[2232]
- D. 1515[^0-2]412[012]+
- E. will not match any of these patterns

QUESTION 11

How many malicious call identification (MCID) differ between a standard call and a conference call?

- A. There is no difference.
- B. The CDR is not flagged in a conference call.
- C. There is no MCID-O message to the PSTN in a conference call.
- D. There is no message to the Cisco CallManager administrator in a conference call.

Answer: C

Introducing Malicious Call Identification

Malicious Call Identification (MCID), an internetwork service, allows users to initiate a sequence of events when they receive calls with a malicious intent. The user who receives a disturbing call can invoke the MCID feature by using a softkey or feature code while connected to the call. The MCID service immediately flags the call as a malicious call with an alarm notification to the Cisco CallManager administrator. The MCID service flags the call detail record (CDR) with the MCID notice and sends a notification to the off-net PSTN that a malicious call is in progress.

The system supports the MCID service, which is an ISDN PRI service, when using PRI connections to the PSTN. The MCID service includes two components:

MCID-O-An originating component that invokes the feature upon the user's request and sends the invocation request to the connected network.

MCID-T-A terminating component that receives the invocation request from the connected network and responds with a success or failure message that indicates whether the service can be performed.

Note Cisco CallManager supports only the originating component at this time

Conference Calls

When a user is connected to a conference, the user can use the MCID feature to flag the call as a malicious call. Cisco CallManager sends the MCID indication to the user, generates the alarm, and updates the CDR. However, Cisco CallManager does not send an MCID invoke message to the connected network that might be involved in the conference.

Reference:

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_administration_guide_chapter09186a

QUESTION 12

A CallManager cluster topology of Cisco MCS 7835s (each capable of supporting 2500 calls) is being designed for an IP telephony network. The cluster design must

- 1) support up to 3,000 phones
- 2) provide a level of redundancy
- 3) be cost effective
- 4) support a very heavy streamed media file load.

Given those necessities, which of the following configurations requires the fewest number of CallManagers but still provides acceptable performance?

- A. Four: Publisher, TFTP server, and two Primaries

- B. Five: Publisher, TFTP server, two Primaries, and a Secondary (covering both Primaries)
- C. Four: combined Publisher and TFTP server, two Primaries, and a Secondary (covering both Primaries)
- D. Six: Publisher, TFTP server, two Primaries, two secondaries (one for each Primary)
- E. Six: Publisher, TFTP server, two Primaries, and a Secondary (covering both Primaries), and a Tertiary (covering both Primaries)
- F. Six: Publisher, TFTP server, two Primaries, two secondaries (one for each Primary), and two Tertiaries (one for each Primary)

Answer: B

QUESTION 13

Exhibit

What is the maximum number of MOH sessions that may be supported on any type of server?

- A. 20
- B. 50
- C. 100
- D. 250
- E. 400

Answer: D

Explanation:

1. MCS 7835 (all models)
2. MCS 7845 (all models)
3. HP DL380
4. IBM Series 34x (all models)

can support 250 MOH sessions in standalone MOH server configuration.

**Support for audio streaming to selected devices

Gateways (unicast and multicast)-VG200 (MGCP), Access Gateway Module (Catalyst 4000 card), Catalyst 4224,

WS-6608-T1/E-1 (Catalyst 6000 8-port PRI card), DE-30+, and DT-24+

Gateways (unicast only)-AT-2/-4/-8, AS-2/-4/-8, and all other Cisco IOS VoIP gateways including 1750,

2600/3600,

5300, 58XX, and 72XX

IP phones (unicast, multicast)-Cisco 7910, 7940, and 7960

IP phones (unicast only)-7935, 12 SP+, and 30 VIP phones

Cisco SoftPhone (unicast only)

o *Maximum 250 simultaneous on-hold streaming sessions per server

Reference:

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_data_sheet09186a0080091d7c.html

QUESTION 14

Which of the steps below are required to enable the Cisco SoftPhone? Select two.

- A. Check the CTI Application Use box.
- B. Remove the DN from any other device.
- C. Add the SoftPhone softkey template.
- D. Add the intended user to Cisco CallManager.
- E. Identify a unique port to use.

Answer: A, D

Cisco IP SoftPhone Administrator Guide

Adding and Associating a User (Cisco CallManager 3.1 or Later)

Procedure

Step 1 On the Cisco CallManager server machine, log in as an administrator.

Step 2 Click User > Add a New User.

Step 3 Complete all the user fields with the requested information. Required fields are indicated by an asterisk (*).

Step 4 Click the check box next to "Enable CTI Application Use" so you can use lines in standalone mode.

Note The Associated PC field is required for collaboration with Virtual Conference Room.

Reference:

http://www.cisco.com/application/pdf/en/us/guest/products/ps1860/c2001/ccmigration_09186a00800b42b7.pdf

QUESTION 15

What is required for a Cisco IP Phone to obtain an address from a Cisco CallManager running the DHCP service if they are not both on the same subnet?

- A. default router
- B. option 150 with the IP address of the CallManager
- C. option 86 with the IP address of the TFTP server
- D. IP helper address

Answer: D

Explanation: IP helper address modifies the IP phone DHCP broadcast to a unicast so the request can be routed to other subnets where DHCP server sits on.

QUESTION 16

Based on the following dial-plan rules, what is the minimum number of partitions that must be defined?

All employees can call local and service numbers.

Managers can call long distance and international numbers.

Executives can call all numbers.

Only Admins can call executives.

Incoming calls can only be routed to IP phones.

- A. 3
- B. 4

- C. 5
- D. 6

Answer: B

QUESTION 17

Which two statements must be true to run the Tool for Auto-registered Phones Support (TAPS)? Select two.

- A. Auto-registration must be enabled in Cisco CallManager.
- B. BAT must have run first.
- C. MAC addresses must have been entered via BAT.
- D. BAT must be run simultaneously.
- E. DHCP must be enabled.
- F. DHCP must be disabled.

Answer: A, B

Device Configuration with TAPS and BAT in Cisco CallManager Administration

Document ID: 46472

Introduction

The Tool for Auto-Registered Phones Support (TAPS) works in conjunction with the Bulk Administration Tool (BAT). After the BAT has been used to bulk add phones with dummy MAC addresses to Cisco CallManager Administration, you can plug the phones into the network. The administrator or the phones' users can then dial a TAPS directory number that causes the phone

to download its configuration. At the same time, the phone gets updated in the Cisco CallManager database with the correct MAC address of the phone. For the TAPS to function, you must make sure that Auto-registration is enabled in Cisco CallManager Administration

(choose System > Cisco CallManager). This document specifically refers to the installation and configuration of the TAPS.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_configuration_example09_186a00802

QUESTION 18

Which two security functions does secure RTP provide? Select two.

- A. signaling verification
- B. encryption
- C. authentication
- D. signed images
- E. IS identification
- F. certificate management

Answer: B, C

MEDIA AUTHENTICATION AND ENCRYPTION USING SECURE RTP ON CISCO MULTISERVICE AND INTEGRATED SERVICES ROUTERS

Media authentication and encryption features on Cisco's portfolio of multiservice and integrated services routers helps ensure that voice conversations terminating on either TDM or analog voice gateway ports are protected from eavesdropping. These reliable, scalable features provide a secure environment for IP communications over a LAN (local area network) or WAN (wide area network).

Reference:

http://www.cisco.com/en/US/partner/products/ps5854/products_data_sheet0900aecd8016c784.html

QUESTION 19

In a centralized call processing environment, locations-based CAC has not been configured. Four calls are in progress and have consumed the entire bandwidth for a link. If another call is made over the link, what will be the result?

- A. All five calls will proceed but with poor quality.
- B. The fifth call will be denied with a fast busy.
- C. The fifth call will have poor quality.
- D. All calls will proceed normally if LLQ has been configured properly.

Answer: A

QUESTION 20

Itexamworld .com is using Cisco CallManager is considering using hotelling a new facility. Itexamworld .com also wants to use standard Cisco IP phones. Which Cisco CallManager option will give Itexamworld that capability?

- A. SoftPhone
- B. IPMA
- C. Extension Mobility
- D. CRS

Answer: C
