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Exam : 642-444

Title : IP Telephony Exam

Ver : 10-01-07

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

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 3

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 4

Assume users are regularly moving throughout the enterprise. Which scenario is a good candidate for Extension Mobility?

- A. multiple campuses, each as its own cluster
- B. single campus, one cluster per building
- C. multiple campuses, each connecting into a single cluster
- D. single building, one cluster for each floor

Answer: C

Reference:

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

QUESTION 5

What service must be activated on a Subscriber to support WebAttendant?

- A. Cisco Database Layer Monitor
- B. Cisco IP Voice Media Streaming
- C. Cisco TFTP Server
- D. Cisco CDR Insert
- E. Cisco Telephony Call Dispatcher

Answer: E

Understanding the Cisco Telephony Call Dispatcher

The attendant console application registers with and receives call-dispatching services from the Cisco Telephony Call Dispatcher (TCD). The Cisco TCD, a Cisco CallManager service, provides communication among Cisco CallManager servers, attendant consoles, and the Cisco IP Phones that are used with the attendant consoles.

Note

If you use the attendant console in a cluster environment, make sure that all CiscoCallManagers within a cluster have the CiscoTCD service activated and running. You must manually activate the service through CiscoCallManager Serviceability. Attendant console redundancy requires this setup to work properly; however, not all CiscoTCDs are required to have a route point.

QUESTION 6

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

The design must accomplish the following:

1. support up to 6,5000 phones
2. provide a minimal level of redundancy
3. be cost effective

Select the best configuration that requires the fewest number of CallManagers while still providing acceptable performance.

- A. Three: Combined Publisher and TFTP server, and Two Primaries
- B. Five: Publisher, TFTP server, and three Primaries
- C. Seven: Publisher, TFTP server, three Primaries, and two Secondaries (each covering two Primaries)
- D. Eight: Publisher, TFTP server, three Primaries, and three Secondaries (one for each Primary)
- E. Nine: Publisher, TFTP server, three Primaries, three Secondaries (each covering one Primary), and one Tertiary

Answer: C

QUESTION 7

What DHCP configuration will provide TFTP server redundancy for Cisco IP Phones?

- A. ip dhcp pool Voice
network 10.1.1.0 255.255.255.0
default-router 10.1.1.1
option 150 ip 10.10.10.100 10.10.10.101
- B. ip dhcp pool Voice
network 10.1.1.0 255.255.255.0
default-router 10.1.1.1
option 150 ip 10.10.10.100
option 150 ip 10.10.10.101
- C. ip dhcp pool Voice
network 10.1.1.0 255.255.255.0
default-router 10.1.1.1
option 150 ip 10.10.10.100
option 66 ip 10.10.10.101
- D. ip dhcp pool Voice
network 10.1.1.0 255.255.255.0
default-router 10.1.1.1
option 150 ip 10.10.10.100
bootp 10.10.10.101

Answer: A

QUESTION 8

A CallManager cluster considering of a publisher and two subscribers is supporting

2000 IP phones with 1:1 redundancy.

What two services should be enabled on the subscribers? Select two.

- A. Cisco CallManager Service
- B. Cisco Messaging interface
- C. Cisco TFTP server
- D. Cisco CDR insert
- E. Cisco Telephony Call Dispatcher

Answer: A, E

QUESTION 9

Which of the following enterprises would be best benefited by using multicast MOH server(s)?

- A. a small enterprise with few calls on hold
- B. a large enterprise with many calls on hold
- C. a mid-range enterprise with many calls on hold where each stream must start at the beginning
- D. a large enterprise with few calls on hold where each stream must start at the beginning

Answer: B

QUESTION 10

What will happen if Option 150 is not configured on the DHCP server?

- A. Cisco CallManager will be unable to register IP Phones.
- B. Cisco CallManager will be unable to access the TFTP server.
- C. IP Phones will not be able to receive VLAN information.
- D. IP Phones will not be able to load their configuration files.
- E. The DHCP server will not be able to answer requests from IP Phones.
- F. Cisco CallManager will be unable to replicate its database to the subscribers.

Answer: D

QUESTION 11

DRAG DROP

Put the tasks in the correct order of operation. Drag each task on the left to its appropriate position on the right.

Define Route Pattern	Step 1
Define Gateway	Step 2
Define Route List	Step 3
Define Route Group	Step 4

Answer:

- Define Gateway
- Define Route Group
- Define Route List
- Define Route Pattern

QUESTION 12

Which two of these events describe the relationship of an IP Phone to its secondary Cisco CallManager? (Choose two.)

- A. IP Phone registers with primary when secondary is unavailable.
- B. IP Phone registers with all CallManagers initially including secondary.
- C. IP Phone registers with secondary when primary is unavailable.
- D. IP Phone sends a TCP keepalive message every 30 seconds.
- E. IP Phone sends a TCP connect message.
- F. IP Phone sends a TCP keepalive message every 60 seconds.

Answer: C,E

QUESTION 13

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

- (1) support up to 6500 Phones
- (2) provide a minimal level of redundancy
- (3) be cost-effective

Select the best configuration that requires the fewest number of Cisco CallManagers while still providing acceptable performance.

- A. three: combined publisher and TFTP server, and two primaries
- B. eight: publisher, TFTP server, three primaries, and three secondaries (one for each primary)
- C. five: publisher, TFTP server, and three primaries
- D. seven: publisher, TFTP server, three primaries, and two secondaries (each covering

two primaries)

E. nine: publisher, TFTP server, three primaries, three secondaries (each covering a primary), and one tertiary

Answer: D

QUESTION 14

You are working with a customer to deploy a pilot network to test how Cisco CallManager interoperates with SIP. Which two components need to be deployed for Cisco CallManager to interoperate with the SIP portion of the network? (Choose two.)

- A. Registrar server
- B. SIP trunk
- C. SIP to H.323 trunk
- D. redirect server
- E. proxy server
- F. location database

Answer: B,E

QUESTION 15

Which of these services must be activated on a subscriber to support Attendant Console?

- A. Cisco CDR Insert
- B. Cisco TFTP server
- C. Cisco IP Voice Media Streaming
- D. Cisco Telephony Call Dispatcher
- E. Cisco Database Layer Monitor

Answer: D

QUESTION 16

A Cisco CallManager cluster contains one publisher and four subscribers. If the publisher is unavailable, which three of these statements are true? (Choose three.)

- A. The Microsoft SQL Server 2000 will save configuration changes on subscribers to be uploaded to the publisher when available.
- B. All IP telephony devices continue to operate.
- C. CDR collection is temporarily suspended on subscribers.
- D. New Cisco CallManager devices can be configured.
- E. The Microsoft SQL Server 2000 database automatically locks.
- F. Available Cisco CallManagers work from the local backup database.

Answer: B,E,F

QUESTION 17

What is required for a Cisco IP Phone to obtain an address from the DHCP server if they are on different subnets?

- A. option 66 with the IP address of the TFTP server
- B. option 150 with the IP address of the Cisco CallManager
- C. IP helper address
- D. default router

Answer: C

QUESTION 18

Jonas Clark Public Relations Ltd. is having an IP telephony network designed using servers from the Cisco MCS 7835 Series that are each capable of supporting 2500 devices. The design must accomplish these requirements:

- (1) be cost-effective
- (2) support up to 6500 phones
- (3) provide a minimal level of redundancy

Which configuration requires the fewest number of Cisco Unified CallManagers while still providing acceptable performance?

- A. Eight Cisco Unified CallManagers:1 Publisher1 TFTP server3 Primary Subscribers3 Secondary Subscribers that each cover 1 Primary Subscriber
- B. Five Cisco Unified CallManagers: 1 Publisher1 TFTP server 3 Primary Subscribers
- C. Four Cisco Unified CallManagers: 1 Publisher1 TFTP server1 Primary Subscriber to cover the Publisher1 Secondary Subscriber to cover the Primary Subscriber and the TFTP server
- D. Seven Cisco Unified CallManagers:1 Publisher1 TFTP server3 Primary Subscribers2 Secondary Subscribers that each cover 2 Primary Subscribers
- E. Three Cisco Unified CallManagers:1 Publisher and TFTP server combined2 Primary Subscribers

Answer: D

QUESTION 19

Which service must be activated on a Cisco Unified CallManager subscriber to support Attendant Console?

- A. Cisco IPIVR Short Message
- B. Cisco Telephony Call Dispatcher
- C. Cisco IP Voice Media Streaming
- D. Cisco Database Layer Monitor

Answer: B

QUESTION 20

Which of the following Cisco Call Processing deployment model are in use when no local call processing occurs at the remote sites?

- A. Distributed
- B. Campus
- C. Centralized
- D. None of the Above
- E. All of the Above

Answer: C

QUESTION 21

Is the following true or false? There is no need to define a DHCP Scope on the DHCP Server to permit IP Phones to obtain an IP Address, provided the IP Phones have the address of the TFTP Server.

- A. False
- B. True

Answer: A

QUESTION 22

The call preservation feature of Cisco CallManager ensures that an active call will be uninterrupted when a Cisco CallManager fails or when communication between the device and the Cisco CallManager that set up the call fails.

- A. True
- B. False

Answer: A

QUESTION 23

The newly appointed Certkiller trainee technician wants to know what the maximum number of interconnected CallManager sites across the WAN is if the Cisco Distributed Call Processing Deployment model is in use. What will your reply be?

- A. 1
- B. 2
- C. 3
- D. 6
- E. 10
- F. 100

Answer: F

o Deployment of devices and applications across an IP network

- o "Clusters" of Cisco CallManagers for scalability, redundancy, and load balancing
 - o Maximum 2500 devices per Cisco CallManager server
 - o Maximum BHCC 50,000 per Cisco CallManager server
 - o Eight Cisco CallManager servers per cluster
 - o Maximum BHCC 125,000 per Cisco CallManager cluster
 - o Maximum 10,000 devices per cluster
 - o Intercluster scalability to 100 sites or clusters through H.323 gatekeeper
 - o Intracluster feature transparency
 - o Intracluster management transparency
- http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_data_sheet09186a008007d873.html
-

QUESTION 24

The newly appointed Certkiller trainee technician wants to know what the Cisco Call Manager cluster recommendation to support up to 2,500 users is. What will your reply be?

- A. 1
- B. 3
- C. 2
- D. 4
- E. 7

Answer: C

QUESTION 25

Which of the following dial-peer commands will you advise the new Certkiller trainee technician to use to configure Cisco CallManager redundancy in a H.323 gateway?

- A. preference
- B. dtmf-relay
- C. voice-class
- D. session-target
- E. destination pattern

Answer: A

H.323 Gateway Dial-Peer Configuration for Cisco CallManager Server Redundancy
Cisco 2610

Document ID: 12423

Current configuration:

```
version 12.1
```

```
voiceclass h323 1
```

```
h225timeout tcp establish 3
```

```
!-- Set the timeout to three seconds.
```

```
dial-peervoice 100 voip
```

```
preference 1
```

```
!--- Make this the first choice dial peer.
ip precedence 5
destination-pattern 1...
voice-class h323 1
!--- Apply the voice class to the dial peer.
session target ipv4:10.10.10.2
!--- This is the address of the primary Cisco CallManager.
dtmf-relay h245-alpha
dial-peervoice 101 voip
preference 2
!--- This is the second choice.
ip precedence 5
destination-pattern 1...
session target ipv4:10.10.10.3
!--- This is the address of the secondary Cisco
CallManager.
dtmf-relay h245-alpha
end
http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products\_configuration\_example09186a00800
```

QUESTION 26

Which of the following Cisco CallManager models do not offer dual hot-swap hard drives or redundant hot-swap power supplies?

- A. MCS-7815-1000
- B. MCS-7825-1133
- C. MCS-7835-1266
- D. MCS-7845-1400

Answer: A, B

QUESTION 27

Which of the following components can not be installed as components of Cisco CallManager?

- A. Cisco CallManager
- B. Cisco TFTP Server
- C. Cisco Messaging Interface
- D. Cisco DHCP Server
- E. Cisco CallManager Web Components
- F. Cisco IP VoiceMedia Streamer

Answer: D

QUESTION 28

Which IP Telephony Layer does Cisco CallManager belong to?

- A. Infrastructure
- B. Clients
- C. Call Processing
- D. Applications
- E. Call Activation
- F. Voice
- G. Router

Answer: C

QUESTION 29

Which of the following System parameter changes will require a restart of Cisco CallManager?

- A. CallManager Server IP Address
- B. External phone subnet mask
- C. Auto-Registration Partition
- D. External phone number mask
- E. New Route Group
- F. TCP port settings for the Cisco CallManager server

Answer: A, C, D, F

QUESTION 30

Which of the following statements are true when one considers the relationship between the Publisher and the Subscriber within a CallManager cluster?

- A. The Publisher reads it's local database.
- B. Should the Publisher fail the Subscriber cannot view any database information.
- C. If the Publisher is available, Subscribers get their database information from the Publisher.
- D. Should the Publisher fail the Subscriber examines it's own local database information.
- E. The Subscribers never get their database information from the Publisher, but instead use their own local database.

Answer: A, C, D

QUESTION 31

Which of the following statements regarding IP Addressing in a CallManager environment is valid? (Choose all that apply.)

- A. IP Phones can be allocated IP Addresses statically or through DHCP.
- B. An IP Phone is allowed to receive an address in the same IP subnet as the attached PC.
- C. An IP Phone can be allocated to a different subnet to the attached PC.
- D. IP Phones makes use of network address space from RFC 1918.

- E. IP Phones cannot use Private address space such as network 10.0.0.0.
- F. IP Phones and PCs attached to the same switch port must reside in the same IP subnet.

Answer: A, B, C, D

QUESTION 32

Which of the following statements regarding the CallManager database is valid?
(Choose all that apply.)

- A. CallManager 3.1 makes use of SQL 7.0 Standard Edition + SP 2.
- B. CallManager 3.1 makes use of SQL 7.0 Standard Edition + SP 1.
- C. There can only be one Publisher per cluster.
- D. There can be multiple Publishers per cluster.
- E. All configuration changes are made on the Subscribers.
- F. All configuration changes are made on the Publisher.
- G. All of the above.

Answer: A, C, F

QUESTION 33

Which of the following statements regarding CallManager Redundancy Groups is valid? (Choose all that apply.)

- A. A CallManager Redundancy Group is a subset of a cluster.
- B. Members of a cluster are also members of a Redundancy Group.
- C. All devices in a cluster should be assigned to multiple CallManager Redundancy Groups.
- D. All devices in a cluster should be assigned to a single CallManager Redundancy Group.
- E. Devices are not assigned to CallManager Redundancy Groups.
- F. Members of a Cluster substitutes as a subset of a CallManager Redundancy Group.

Answer: A, B, D

QUESTION 34

Where should the DSP resources be located when using the Cisco Multi Site WAN Centralized Call Processing Deployment model?

- A. Remote Site
- B. On Site
- C. Construction Site
- D. Aggregation Site
- E. Off Site

Answer: D

QUESTION 35

To which IP Telephony Layer does a Switch belong to?

- A. Clients
- B. Call Processing
- C. Infrastructure
- D. Applications
- E. Voice
- F. Router

Answer: C

QUESTION 36

Which of the following statements regarding Call Preservation is valid?

- A. Call preservation is based on call signaling and call connections.
- B. If communications between devices is unaffected, the RTP streaming sessions cannot be preserved.
- C. Cisco CallManagers in a cluster use Physical Layer links to establish calls between devices registered to different CallManager servers.
- D. Cisco CallManagers in a cluster use Signal Distribution Layer links to establish calls between devices registered to different CallManager servers.
- E. The affected calls cannot be controlled by the CallManager cluster , if an error occurs that affects the signaling path, which is controlled by a CallManager server.
- F. The RTP streaming sessions can still be preserved, provided communication between devices are unaffected.

Answer: A, D, E, F

QUESTION 37

Is the following true or false? A gatekeeper device, the Cisco Multimedia Conference Manager (MCM), provides call admission control for distributed call processing systems.

- A. True
- B. False

Answer: A

<http://www.cisco.com/en/US/partner/products/sw/voicesw/ps4139/index.html>

QUESTION 38

What are the three Cisco recommended methods for connecting an IP Phone into the network?

- A. Use of the IP Phone as a stand alone device
- B. Connect the workstation and the IP Phone into two different ports on the switch.

- C. Running the IP Soft Phone JTAPI application on the workstation.
- D. Directly connecting the IP Phone into the PABX
- E. Connect the IP Phone into the switch and directly connecting the workstation into the switched Ethernet port on the back of the IP Phone.

Answer: B, C, E

QUESTION 39

The newly appointed Certkiller trainee technician wants to know what the Cisco Call Manager cluster recommendation to support up to 5,000 users is. What will your reply be?

- A. 7
- B. 4
- C. 2
- D. 3
- E. 1

Answer: B

QUESTION 40

Which of the following statements regarding Voice VLANs are valid? (Choose all that apply.)

- A. The new Voice VLAN is also known as the Auxiliary VLAN.
- B. If a switch port has been configured with an Auxiliary VLAN, the attached IP Phone will belong to this Voice VLAN, whereas an attached PC on the same switch port will belong to the default Data VLAN.
- C. If a switch port has been configured with an Auxiliary VLAN, both the attached IP Phone and PC will both belong to this Voice VLAN.
- D. An IP Phone talks to the attached switch via CDP when powering up. The switch will then provide the IP Phone it's VLAN information.
- E. If both IP Phone and PC are attached on the same switch port they will always belong to the same VLAN
- F. An IP Phone will always belong to the default Data VLAN, regardless of whether an Auxiliary VLAN has been configured on this port or not.

Answer: A, B, D

QUESTION 41

Which of the following Cisco components forms an integral part of the Cisco IP Communications system that enables emergency agencies to identify the location of 911 callers?

- A. IP Contact Centre
- B. Customer Response Application

- C. Unity
- D. Emergency Responder
- E. Conference Connection
- F. IP SoftPhone

Answer: D

QUESTION 42

Which of the following statements regarding the way in which IP Phones obtain IP Addresses and access the TFTP server is valid? (Choose all that apply.)

- A. IP Phones can be statically configured with an IP Address.
- B. DHCP Options 066 and 150 must be used simultaneously to ensure IP Phones receive the TFTP server address correctly.
- C. IP Phones can be statically configured with the address of the TFTP Server.
- D. DHCP Options 066 and 150 must not be used simultaneously. Use either option 150 or option 066 to allow the IP Phones to receive the address of the TFTP server.
- E. IP Phones cannot be statically configured with the address of the TFTP Server.

Answer: A, C, D

QUESTION 43

The newly appointed Certkiller trainee technician wants to know which of the following is the protocol that is used between an IP Phone or Gateway when registering with CallManager. What will your reply be?

- A. TCP
- B. MGCP
- C. Skinny
- D. H.323
- E. Not so stubby
- F. UDP

Answer: C

QUESTION 44

Which of the following statements regarding Publishers and Subscribers is valid? (Choose all that apply.)

- A. A Publisher is a Read-Write database
- B. A Subscriber is a Read-Write database
- C. A Publisher is a Read-Only database
- D. A Subscriber is a Read-Only database
- E. Both Publisher and Subscriber databases are Read-Write
- F. Both Publisher and Subscriber databases are Read-Only

Answer: A, D

Cisco CallManager Embedded LDAP Directory

Cisco CallManager uses the Data Connection Directory (DC-Directory) as an embedded LDAP directory. This directory stores authentication and authorization information about users and comes standard with Cisco CallManager (does not require any special configuration or installation). Authentication establishes the user right to access the system, while authorization identifies the telephony resources that a user is permitted to use, such as a specific telephone extension.

After installation, the Cisco CallManager publisher server contains the read and write version of the LDAP directory and the database, while the subscriber servers contain read-only versions. The system uses LDAP to communicate to and from Cisco CallManager and all of the supported applications and uses the TCP port 8404. When security is enabled, LDAPS (LDAP over SSL) uses TCP port 8405 (see the "LDAP and the Secured Sockets Layer" section for more information).

Administrators access the embedded LDAP directory from the Cisco CallManager Administration User Configuration window. Administrators use the User Configuration window to add, update, and delete user information such as userid, password, and device association.

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

QUESTION 45

Which of the following is the correct sequence that should be followed to configure CMI correctly on CallManager?

- A. Install CMI Service
Configure a CallManager server
Add the CMI Service to a CallManager server
Configure the CMI Service parameters
- B. Install CMI Service
Configure a CallManager server
Configure the CMI Service parameters
Add the CMI Service to a CallManager server
- C. Configure a CallManager server
Configure the CMI Service parameters
Add the CMI Service to a CallManager server
Install CMI Service
- D. Install CMI Service
Configure the CMI Service parameters
Add the CMI Service to a CallManager server
Configure a CallManager server

Answer: A

QUESTION 46

What is the correct sequence to follow when configuring CallManager?

- A. Services/Devices, Route Plan, Gateways, System
- B. System, Services/Devices, Route Plan, Gateways
- C. System, Route Plan, Services/Device, Gateways
- D. System, Gateways, Route Plan, Services/Devices
- E. Services/Devices, System, Route Plan, Gateways
- F. There is no recommendation concerning the flow of configuring CallManager.

Answer: D

QUESTION 47

What is the maximum number of users that triggers the recommendation by Cisco to install a CallManager at a remote site in a Cisco Centralized Call Processing deployment model environment?

- A. CallManagers are never installed at remote branch offices.
- B. 5
- C. 10
- D. 20
- E. 50
- F. 100

Answer: D

QUESTION 48

What is the name of the value that each IP telephony device is allocated, that you would use to determine the overall number of devices a CallManager can support?

- A. user
- B. size
- C. weight
- D. capacity
- E. resource

Answer: C

QUESTION 49

What will happen to a PC's Ethernet connection if it is connected to the network via a 7960 IP Phone and the IP Phone loses power?

- A. The PC will loose its connection to the network
- B. The PC retains it's Ethernet connection
- C. The PC will loose power
- D. The PC must be rebooted to re-connect to the network
- E. The PC is unable to connect to the network via a 7960 IP Phone

Answer: A

QUESTION 50

Which of the following statements regarding IP Phones and TFTP is valid? (Choose all that apply.)

- A. A TFTP server address cannot be statically configured on an IP Phone.
- B. A statically configured TFTP server address on an IP Phone has the ability to override a TFTP server address sent by a DHCP server.
- C. A TFTP server address can be statically configured on an IP Phone.
- D. If the device receives the Cisco CallManager name, it resolves the name using DNS and opens a Cisco CallManager connection.
- E. A device cannot use the default server name if it did not receive an IP address or name.
- F. A device will use the default server name if it did not receive an IP address or name.

Answer: B, C, D, F

QUESTION 51

Is the following true or false? Shared media is supported to the desktop in an IP Telephony Environment.

- A. True
- B. False

Answer: B

QUESTION 52

Which of the following is the Cisco IP Phone that is capable of only the single line?

- A. 7960
- B. 12 SP+
- C. 7910
- D. 30 VIP
- E. Soft Phone

Answer: C

QUESTION 53

Is the following true or false? It is unnecessary to define a DHCP Scope on the DHCP Server to permit IP Phones to obtain an IP Address, as long as the IP Phones have the address of the TFTP Server.

- A. False
- B. True

Answer: A

QUESTION 54

The newly appointed Certkiller trainee technician wants to know which of the following connection types are used to connect two Cisco CallManagers in remote clusters. What will your reply be?

- A. H.225 Intercluster Trunk
- B. H.323 Intracluster Trunk
- C. H.323 Gatekeeper
- D. H.323 Intercluster Trunk
- E. H.225 Intracluster Trunk
- F. None of the Above

Answer: D

Cisco CallManager System Guide, Release 3.1(2)

Understanding Voice Gateways

Gateways, Dial Plans, and Route Groups

Use dial plans to access or call out to the PSTN, route groups, and group-specific gateways. Ensure remote Cisco CallManagers across the IP WAN are configured as intercluster (H.323) gateways.

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

QUESTION 55

The newly appointed Certkiller trainee technician wants to know which protocol is used to maintain the active session with each configured CallManager, when an IP Phone receives its configuration file with a list of prioritized CallManagers. What will your reply be?

- A. Skinny
- B. MGCP
- C. TCP
- D. Not so stubby
- E. UDP
- F. H.323

Answer: C

QUESTION 56

Quality of Service classification at Layer 3 is also referred to as:

- A. CoS
- B. MOS
- C. BOSS

- D. ToS
- E. QoS

Answer: D

QUESTION 57

When an phone contacts the TFTP server, what is the maximum number of CCM server in a file that is downloading to a Cisco IP Phone?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: C

QUESTION 58

In which file will you be able to locate the firmware version information in the Device Defaults configuration page?

- A. Source
- B. Version
- C. Firmware
- D. Load Information

Answer: D

QUESTION 59

Which of the following services must be activated and running on the CCM to enable Cisco Attendant Console?

- A. Cisco RIS Data Collector
- B. Cisco Telephony Call Dispatcher
- C. Cisco CTIManager
- D. Cisco IP Voice Media Streaming App
- E. All of the above

Answer: B

Make sure that the Cisco Telephony Call Dispatcher (TCD) service activates and runs on all servers that run the Cisco CallManager service.

*Step # 5 in the Cisco CallManager Attendant Console Configuration Checklist
Cisco CallManager Attendant Console Administration Guide, Release 1.2(1), page 3

QUESTION 60

The newly appointed Certkiller trainee technician wants to know which codec is

supported by the IP Voice Media Streaming Application for conferencing. What will your reply be?

- A. GSM
- B. G.711
- C. G.723
- D. G.729

Answer: B

QUESTION 61

What will an endpoint do when an H.323 endpoint requires a change to a higher bit rate codec during a call?

- A. Send a Bandwidth Reject (BRJ) to the gatekeeper.
- B. Send a Bandwidth Interrupt (BRI) to the gatekeeper.
- C. Send a Bandwidth Request (BRQ) to the gatekeeper.
- D. Send a Disengage Request (DRQ) to the gatekeeper.
- E. Send a Change Codec Request (CCR) to the gatekeeper.

Answer: C

QUESTION 62

Which of the following can function as a media termination point?

- A. Hardware transcoder
- B. Music on hold server
- C. Software conference bridge
- D. Hardware conference bridge

Answer: A

QUESTION 63

What can call oversubscription cause if you do not have call admission control?

- A. Echo
- B. Call drop
- C. Talk back
- D. Voice packet loss
- E. Call processing delay

Answer: D

An additional contributor to packet loss in campus networks is TX buffer congestion. Transmit buffer congestion can happen if a rate change occurs or if many interfaces are aggregated into a single uplink,

resulting in an oversubscription of the uplink's capacity to buffer packets.

Page 3-2, Cisco AVVID Network Infrastructure Enterprise Quality of Service Design

QUESTION 64

You are a network administrator at Certkiller . The Certkiller network supports 10,000 device units. You want to deploy 2:1 CCM redundancy on the Certkiller network.

How many dedicated backup servers would you require?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Answer: B

QUESTION 65

The multinational corporation Certkiller has large campuses in the US, Guatemala, and Singapore. There are about 15,000 phones at each location. A call pattern survey discovers that almost all calls are intrasite.

Which is the most appropriate deployment option for Certkiller ?

- A. Single site deployment with connections to the PSTN.
- B. Distributed call processing with an improved WAN infrastructure.
- C. Single site deployment with clusters connected via infrastructure trunks.
- D. Centralized call processing with one location chosen as the call processing center.

Answer: B

QUESTION 66

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know how the runtime information regarding registered devices is propagated from one CCM server to another.

What will your reply be?

- A. Each CCM server establishes an SDL link to all the other CCM servers in the cluster to propagate runtime information.
 - B. One server becomes the designated distributor and is responsible for distributing runtime information to all the cluster members.
 - C. Each CCM server in the cluster sends IP Multicast messages to the other CCM servers in the cluster reporting current runtime information such as registered devices.
 - D. Each CCM server establishes an SDL link to the publisher.
- All runtime information from the subscribers is passed up to the publisher, which then replicates the data back to the subscribers.

Answer: A

QUESTION 67

Once CCM is installed on a server, which operations do you need to be perform?
(Choose two)

- A. Delete the installation folder.
- B. Stop all unnecessary services.
- C. Create a SQL database for IP phones.
- D. Change the password for the CCM account.

Answer: B, D

QUESTION 68

You are a network administrator at Certkiller . Certkiller mandates a single-cluster over the WAN design for the CCM deployment. Your newly appointed Certkiller trainee wants to know what the maximum number of primary CCM servers in this diagram is.

What will your reply be?

- A. 2
- B. 4
- C. 6
- D. 8
- E. 10

Answer: B

Explanation:

The distributed single-cluster design supports a maximum of 4 primary Cisco CallManagers. This number correlates directly to the maximum number of supported locations.

QUESTION 69

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the purpose of the TCD service is.

What will your reply be?

- A. Analyzer hunt group usage patterns for better call allocation.
- B. Provides registration services for phones being used in hunt groups.
- C. Provides state communication between CCM servers and attendant consoles.
- D. Determines overall call agent performance for higher agent satisfaction levels.

Answer: C

QUESTION 70

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the maximum number of CCM subscribers that are allowed in a cluster is.

What will your reply be?

- A. 2
- B. 4
- C. 6
- D. 8
- E. 9

Answer: D

Due to Microsoft SQL restriction, you can have only one publisher server and up to eight subscriber servers per cluster.

QUESTION 71

You are a CCM administrator at Certkiller . You want to route calls from one Certkiller site over the WAN to another site. Your user community dials a full long distance number, but you want to only route the dive digit extension.

Which of the following is the most effective solution?

- A. Change the full long distance number to only five digits using a route filter with a called party transformation mask.
- B. Change the full long distance number to only five digits using a route filter with a calling party transformation mask.
- C. Change the full long distance number to only five digits using a translation pattern with a calling party transformation mask.
- D. Change the full long distance number to only five digits using a translation pattern with a called party transformation mask.

Answer: D

QUESTION 72

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what a route group is.

What will your reply be?

- A. It is a logical grouping of route lists.
- B. It is a logical grouping of route filters.
- C. It is a logical grouping of route patterns.
- D. It is a logical grouping of device gateways.

Answer: D

QUESTION 73

You are a CCM administrator at Certkiller . The Certkiller network has a called party digit string of 9592790. The called party digit string matches a Translation Pattern. The Translation Pattern has a called party transformation mask of 88xxx00. Your newly appointed Certkiller trainee wants to know what the transformed called party result should be.

What will your reply be?

- A. 8592790
- B. 95xxx90
- C. 9592700
- D. 8892700

Answer: D

QUESTION 74

Which of the following are typically placed in a CCM partition?

- A. IP phone only
- B. Route pattern only
- C. Calling search space only
- D. IP phone and Calling search space
- E. Route pattern and Directory number

Answer: E

QUESTION 75

Which of the following is a valid use of a calling partition?

- A. Ensuring 911 is routed to the correct PSTN gateway.
- B. Ensuring that all voice mail is stored in the same physical drive.
- C. Ensuring administrative authority is limited to a single CCM server.
- D. Ensuring only designated partitions of a dialed number is parsed by the route filter.

Answer: A

QUESTION 76

You are a network administrator at Certkiller . You want to keep your IP telephony network from failing if the IP phones lose connectivity with the DNS server.

What should you do?

- A. Nothing, DNS is required.
- B. Configure the TFTP server as a WINS server.
- C. Rename the Cisco CCM server name to its IP address.
- D. Configure the IP phones to use WINS as a backup to DNS.

Answer: C

QUESTION 77

You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know at what point during the boot process the IP phone tries to resolve CCM server name via DNS.

What will your reply be?

- A. After the DHCP acknowledgment.
- B. Just before the DHCP acknowledgment.
- C. After the TFTP server serves the configuration file.
- D. Before the TFTP server serves the configuration file.

Answer: C

QUESTION 78

You are the network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the recommended bandwidth for a Cisco SoftPhone is.

What will your reply be?

- A. 16 Kbps
- B. 56 Kbps
- C. 64 Kbps
- D. 80 Kbps
- E. 128 Kbps

Answer: A

Codec Selection

Cisco IP SoftPhone supports G.711, G.723, and G.729a codecs. Cisco recommends G.729a

low-bandwidth codec configurations in deployments with telecommuters connecting their Cisco IP

SoftPhones across the WAN.

Because Cisco CallManager does not support the G.723 codec, Cisco IP Softphone has two bandwidth

codec settings to use: G.711 is the default setting, with a user-configurable option to select the

low-bandwidth codec setting of G.729 on the TAPI Service Provider (TSP) client.

Reference: Cisco IP Telephony Solution Reference Network Design (SRND), Cisco CallManager Release 4.1, April 2005.

QUESTION 79

You are the network administrator at Certkiller . You want to use a single platform for the gateway and the gatekeeper.

Which platform should you use?

- A. 364X
- B. VG200
- C. Catalyst 3500
- D. Catalyst 6608
- E. Catalyst 6624

Answer: A

QUESTION 80

Which two audio codecs consume less than 15 kbps? (Choose two)

- A. G.711
- B. G.723
- C. G.728
- D. G.729

Answer: B, D

Explanation: The H.323 protocol suite defines the following audio codecs: G.711 consumes 56/64kbps for transmission G.723 consumes 5.3/6.4kbps for transmission G.728 consumes 16kbps for transmission G.729 consumes 8/13kbps for transmission All H.323-compliant devices must support, at a minimum, the G.711 audio codec.

QUESTION 81

What is the maximum number of CCM servers in the list that is downloaded to a Cisco IP phone when the phone contacts the TFTP server?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: C

QUESTION 82

Which device is a peer to peer gateway?

- A. A skinny gateway
- B. An H.323 gateway
- C. An MGCP gateway
- D. A non-IOS MGCP gateway

Answer: B

QUESTION 83

Certkiller .com has multiple geographic locations that are connected by WAN links in a hub and spoke topology. All locations have IP phones but all of the CCM servers are located at corporate headquarters.

Which type of CCM deployment is being used?

- A. single-site
- B. geographic WAN
- C. centralized call processing
- D. distributed multicluster call processing

Answer: C

QUESTION 84

Which two servers perform name resolution for a CCM? (Choose two)

- A. DNS
- B. DHCP
- C. WINS
- D. Active Directory Domain Controller

Answer: A, C

QUESTION 85

Certkiller is running CCM in a cluster over the WAN deployment.

What is the maximum round-trip delay that can be present between two members in a cluster?

- A. 20 ms
- B. 30 ms
- C. 40 ms
- D. 50 ms

Answer: C

WAN Considerations

For clustering over the WAN to be successful, you must carefully plan, design, and implement various

characteristics of the WAN itself. The Intra-Cluster Communication Signaling (ICCS) between

Cisco CallManager servers consists of many traffic types. The ICCS traffic types are classified as either

priority or best-effort. Priority ICCS traffic is marked with IP Precedence 3 (DSCP 26 or PHB AF31 in

Cisco CallManager releases prior to 4.0 and DSCP 24 or PHB CS3 for release 4.0 and later). Best-effort

ICCS traffic is marked with IP Precedence 0 (DSCP 0 or PHB BE). The various types of

ICCS traffic

are described in Intra-Cluster Communications, page 2-17, which also provides further guidelines for provisioning. The following design guidelines apply to the indicated WAN characteristics:

Delay

The maximum one-way delay between any Cisco CallManager server for all priority ICCS traffic should not exceed 20 ms, or 40 ms round-trip time (RTT). Delay for other ICCS traffic should be

kept reasonable to provide timely database and directory access. Measuring the delay is covered in

Delay Testing, page 2-19. Propagation delay between two sites introduces 6 microseconds per

kilometer without any other network delays being considered. This equates to a theoretical

maximum distance of approximately 3000 km for 20 ms delay or approximately 1860 miles. These

distances are provided only as relative guidelines and in reality will be shorter due to other delay

incurred within the network.

Reference: Cisco IP Telephony Solution Reference Network Design (SRND), Cisco CallManager Release 4.1, April 2005.

QUESTION 86

Certkiller has five different geographic locations, each with their own PSTN connection.

How do you ensure you route 911 calls to the local PSTN?

- A. You place each PSTN in the local dialing transform.
- B. You use 911 EXISTS in the dialing pattern call routing.
- C. 911 is automatically routed to local PSTN. No configuration is required.
- D. You place the emergency numbers in separate partitions for each geographic location.

Answer: D

QUESTION 87

What is the purpose of the Cisco Emergency Responder?

- A. To map phones to the appropriate Public Safety Access Point.
- B. To allocate phone device Ids to the appropriate outgoing trunk.
- C. To map IP addresses to office locations for Safety Service Dispatch.
- D. To map a MAC addresses to its CCM server for table lookup for a quick response to the appropriate cubicle.

Answer: A

QUESTION 88

What can be done to eliminate the IP phone's reliance on DNS to find the Cisco CallManager?

- A. Configure CCM to use a WINS server.
- B. Configure the IP phones to use a WINS server.
- C. Rename the IP phone to the phone's IP address.
- D. Rename the CCM server name to its IP address.

Answer: D

QUESTION 89

Certkiller .com wants the flexibility of having the gateway be able to register to either a CallManager or a gatekeeper as they migrate from a Centralized Multi-Site Deployment Model to a Distributed Deployment Model.
What is the best choice?

- A. H.323 36xx
- B. MGCP 36xx
- C. MGCP VG-200
- D. Skinny Catalyst 6608 module

Answer: A

QUESTION 90

In a Distributed Call Manager Deployment Model, which type of gateway can be used for inter-cluster trunks as well as a gatekeeper?

- A. H.323 364X
- B. MGCP 364X
- C. Catalyst 6000
- D. CallManager Server

Answer: A

QUESTION 91

Which command in an IOS H.323 gateway is used to communicate with the CallManager?

- A. destination pattern 110
- B. dial-peer voice 11 pots
- C. session target ipv4:10.10.10.10
- D. ccm-manager redundant-host 10.10.101.10

Answer: C

QUESTION 92

A directory number may be assigned to an endpoint identifier in which type of gateway?

- A. SDP
- B. H.323
- C. MGCP
- D. Skinny

Answer: B

QUESTION 93

For an IOS MGCP gateway, which two configuration parameters are required input in CallManager? (Choose two)

- A. Description
- B. Domain name
- C. MAC address
- D. Gateway type

Answer: B, D

Description is optional, however, Domain Name & Gateway Type are required.

QUESTION 94

Which device protocol is configured in CallManager for an H.323 gateway?

- A. H.225
- B. H.224
- C. H.450
- D. Inter-Cluster trunk

Answer: A

QUESTION 95

What is the maximum number of CallManagers performing call processing that are allowed in a cluster?

- A. 5
- B. 6
- C. 7
- D. 8

Answer: D

QUESTION 96

How is runtime information regarding registered devices propagated from one CallManager to another?

- A. Each CallManager establishes an SDL link to all the other CallManagers in the cluster to propagate runtime information.
- B. One server becomes the designated distributor and is responsible for distributing runtime information to all the cluster members.
- C. Each CallManager in the cluster sends IP Multicast messages to the other CallManagers in the cluster reporting current runtime information such as registered devices.
- D. Each CallManager establishes an SDL link to the publisher.
All runtime information from the subscribers is passed up to the publisher, which then replicates the data back to the subscribers.

Answer: A

QUESTION 97

What happens when the publisher is down and a Call Detail Record is written to the database?

- A. The CDR is ignored by the subscriber database.
- B. The subscriber database stores the CDR and replicates to the publisher when the publisher comes back up.
- C. The subscriber database temporarily stored the CDR, but the CDR is deleted when the publisher comes back up.
- D. The subscriber database temporarily stored the CDR, but the CDR is ignored when the publisher comes back up.

Answer: B

Cisco IP Telephony Solution Reference Network Design (SRND) for Cisco CallManager 4.1

IP Telephony Deployment Models

Call Detail Records (CDR)

Call detail records, when enabled, are collected by each subscriber and uploaded to the publisher periodically. During a period that the publisher is unreachable, the CDRs are stored on the subscriber's local hard disk. When connectivity is re-established to the publisher, all outstanding CDRs are uploaded to the publisher.

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

QUESTION 98

If the TFTP server for the cluster is not available, you are unable to _____.

- A. Move a phone to a new IP subnet.
- B. Change the ringer on the IP Phone.

- C. Access the Services and Directories menus on the 7960.
- D. Reboot an IP Phone because it will be unable to re-register.

Answer: D

QUESTION 99

Which three services are provided by the IP Voice Media Streaming Application?
(Choose three)

- A. Transcoding
- B. Conferencing
- C. Music on Hold
- D. Media Termination Point

Answer: B, C, D

QUESTION 100

What can be used as a Music on Hold source?

- A. Catalyst 4224
- B. WS-X6608-T1
- C. MCS-7835-1000
- D. WS-X4604-GWY

Answer: C

QUESTION 101

What can an IP Phone user do on the Configure Your IP Phone Services page?

- A. Subscribe to all services.
- B. Subscribe to only one service.
- C. Subscribe to subsets of service.
- D. Subscribe to all unrestricted services.
- E. Subscribe to restricted services with password

Answer: A

QUESTION 102

After the administrator configures a user for extension mobility, what does the administrator need to configure on the Cisco IP Phone?

- A. Speed dial numbers to log in and out.
- B. Soft keys for the user to log in and out.
- C. Cisco IP Phone services to log in and out.
- D. Directory list to find their user ID to log in and out.

Answer: C

QUESTION 103

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 Austria region and the other regions.

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

Answer: E

QUESTION 104

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 105

Certkiller .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. Certkiller .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 Certkiller .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 106

A CallManager cluster contains one publisher and three subscribers. If the publisher is unavailable, which one of the following statements is true?

- A. Updates to the CallManager configuration on the subscribers will be accepted and will be uploaded to the publisher when the publisher recovers.
- B. CDRs are collected by the subscribers and will be uploaded to the publisher when the publisher recovers.
- C. New CallManager-managed IP telephony devices can be added to the cluster.
- D. CDRs are posted to the primary subscriber, which uploads them to the publisher when the publisher recovers.

Answer: B

QUESTION 107

Exhibit

```
Partition = Phones
Partition = Service
  Route Pattern X11
Partition = Local
  Route Pattern X11
  Route Pattern 9.[2-9]XXXXXX
Partition = LongDistance
  Route Pattern X11
  Route Pattern 9.[2-9]XXXXXX
  Route Pattern 9.1[2-9]XX[2-9]XXXXXX
Partition = International
  Route Pattern 9.011!
```

```
CSS CertkillerA
  Phones
  Service
  Local
CSS CertkillerB
  Service
  Local
CSS CertkillerC
  LongDistance
CSS CertkillerD
  Phones
  LongDistance
```

Study the exhibit. What CSS should be assigned to a phone in the Phones partition to allow calls to Service and Local numbers while blocking all other calls?

- A. CSS Certkiller A
- B. CSS Certkiller B
- C. CSS Certkiller C
- D. CSS Certkiller D

Answer: B

QUESTION 108

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 109

Exhibit



Two options exist for adding a gatekeeper-controlled trunk to support gatekeeper call administration control. Which two of the following options could be selected to configure the trunk type as shown in the exhibit? Select two.

- A. H.225 Trunk (Gatekeeper Controlled)
- B. Inter-Cluster Trunk (Gatekeeper Controlled)

- C. Intra-Cluster Trunk (Gatekeeper Controlled)
- D. H.323 Trunk (Gatekeeper Controlled)
- E. H.245 (Gatekeeper Controlled)

Answer: A, B

Cisco CallManager System Guide, Release 4.0(1)

Understanding Cisco CallManager Trunk Types

Trunk Types in Cisco CallManager Administration

Your choices for configuring trunks in Cisco CallManager depends on whether the IP WAN uses gatekeepers to handle call routing. Also, the types of call control protocols that are used in the call-processing environment determine trunk configuration options.

You can configure these types of trunk devices in Cisco CallManager Administration:

1. H.225 Trunk (Gatekeeper Controlled)
2. Intercluster Trunk (Gatekeeper Controlled)
3. Intercluster Trunk (Non-Gatekeeper Controlled)
4. SIP Trunk

H.225 Trunk (Gatekeeper Controlled)In a H.323 network that uses gatekeepers, use an H.225 trunk with gatekeeper control to configure a connection to a gatekeeper for access to other Cisco CallManager clusters and to H.323 devices. An H.225 trunk can communicate with any H.323 gatekeeper-controlled endpoint. When you configure an H.323 gateway with gatekeeper control in Cisco CallManager Administration, use an H.225 trunk. To choose this method, use Device> Trunk and choose H.225 Trunk (Gatekeeper Controlled).

You also configure route patterns and route groups to route calls to and from the gatekeeper.

Intercluster Trunk (Gatekeeper Controlled)In a distributed call-processing network with gatekeepers, use an intercluster trunk with gatekeeper control to configure connections between clusters of Cisco CallManager systems. Gatekeepers provide call admission control and address resolution for intercluster calls. A single intercluster trunk can communicate with all remote clusters. To choose this method, use Device> Trunk and choose Inter-Cluster Trunk (Gatekeeper Controlled) in CiscoCallManager Administration.

You also configure route patterns and route groups to route the calls to and from the gatekeeper. In this configuration, the gatekeeper dynamically determines the appropriate IP address for the destination of each call, and the local CiscoCallManager uses that IP address to complete the call

Reference:

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

QUESTION 110

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 111

An IP phone user has dialed "15152211221".
Which of the following route patterns will be used?

- A. 1515[^0-1]2[12]+[34]?
- B. 1515[^0-1]4[012]+
- C. 1515[0-1]4[123]
- D. 1515[0-2]412[012]+
- E. will not match any of the patterns.

Answer: A

Table 22-1: Wildcards and Special Characters

Character	Description	Examples
@	The at symbol (@) wildcard matches all NANP numbers. Each route pattern can have only one @ wildcard.	The route pattern 9.@ routes or blocks all numbers that are recognized by the NANP. The following route patterns examples show NANP numbers that are encompassed by the @ wildcard: <ul style="list-style-type: none">• 0• 1411• 19725551234• 101028819725551234• 01133123455789
X	The X wildcard matches any single digit in the range 0 through 9.	The route pattern 9XXX routes or blocks all numbers in the range 9000 through 9999.
!	The exclamation point (!) wildcard matches one or more digits in the range 0 through 9.	The route pattern 9! routes or blocks all numbers in the range 910 through 919999999999999999999.
?	The question mark (?) wildcard matches zero or more occurrences of the preceding digit or wildcard value.	The route pattern 91X? routes or blocks all numbers in the range 91 through 919999999999999999999.
+	The plus sign (+) wildcard matches one or more occurrences of the preceding digit or wildcard value.	The route pattern 91X+ routes or blocks all numbers in the range 910 through 919999999999999999999.
[]	The square bracket ([]) characters enclose a range of values.	The route pattern 813510[012345] routes or blocks all numbers in the range 8135100 through 8135105.
-	The hyphen (-) character, used with the square brackets, denotes a range of values.	The route pattern 813510[0-5] routes or blocks all numbers in the range 8135100 through 8135105.
^	The circumflex (^) character, used with the square brackets, negates a range of values. Ensure that it is the first character following the opening bracket ([). Each route pattern can have only one ^ character.	The route pattern 813510[^0-5] routes or blocks all numbers in the range 8135106 through 8135109.
.	The dot (.) character, used as a delimiter, separates the Cisco CallManager access code from the directory number. Use this special character, with the discard digits instructions, to strip off the Cisco CallManager access code before sending the number to an adjacent system. Each route pattern can have only one dot (.) character.	The route pattern 9.@ identifies the initial 9 as the Cisco CallManager access code in an NANP call.
*	The asterisk (*) character can provide an extra digit for special dialed numbers.	You can configure the route pattern *411 to provide access to the internal operator for directory assistance.
#	The octothorpe (#) character generally identifies the end of the dialing sequence. Ensure the # character is the last character in the pattern.	The route pattern 901181910555# routes or blocks an international number that is dialed from within the NANP. The # character after the last 5 identifies this digit as the last digit in the sequence.

QUESTION 112

Which two phrases best describe the purposes of a CallManager group? Choose two.

- A. prioritized fail-over list for backup call processing
- B. call processing load balancing
- C. easy configuration of identical CallManagers
- D. single configuration for CallManagers with common devices
- E. prioritized list of gateways

Answer: A, B

Distributing Devices for Redundancy and Load Balancing

Cisco CallManager groups provide both call processing redundancy and distributed call processing. How you distribute devices, device pools, and Cisco CallManagers among the groups determines the level of redundancy and load balancing in your system.

In most cases, you would want to distribute the devices in a way that prevents the other Cisco CallManagers from becoming overloaded if one Cisco CallManager in the group fails

Reference:

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

QUESTION 113

A dial plan uses six-digit numbers where the first two digits are in access code and the last four digits are an extension. Access codes must begin with 7 or 8 and the second digit cannot be 0, 1, 5, or 9.

Which two route patterns will support this dial-plan requirement? Select two.

- A. [78][2-4,6-8]XXXX
- B. [7-8][^0159]XXXX
- C. [^0-6,9][2-4,6-8]XXXX
- D. [^0-69][2-4678]XXXX
- E. [^78][^234678]XXXX

- E. primary, secondary
- F. secondary, primary

Answer: B

preference (dial-peer)

To indicate the preferred order of a dial peer within a hunt group, use the preference command in dial-peer configuration mode. To remove the preference, use the no form of this command.

preference value

no preference

Syntax Description

value	Integer from 0 to 10, where the
	lower the number, the higher the
	preference. The default value is 0
	(highest preference).

Defaults

0 (highest preference)

Command Modes

Dial-peer configuration

http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122tcr/122tvr/vrg_p1.htm#wp9996

QUESTION 116

What method of Call Admission Control (CAC) is used for centralized call processing?

- A. locations
- B. regions
- C. gatekeeper
- D. H.225
- E. gateway
- F. H.323

Answer: A

QUESTION 117

DRAG DROP

As a network technician at Certkiller.com drag each characteristic on the left to its appropriate entity on the right.

Select from these

- Publisher and Subscribers
- Assigned when configuring Device Pool
- Can contain up to nine members
- One member manages the database for others
- All members process IP telephony calls
- Primary, Secondary, Tertiary

CallManager Cluster

-
-
-

CallManager Group

-
-
-

Answer:

As a network technician at Certkiller.com drag each characteristic on the left to its appropriate entity on the right.

Select from these

CallManager Cluster

- Publisher and Subscribers
- Can contain up to nine members
- One member manages the database for others

CallManager Group

- Assigned when configuring Device Pool
- All members process IP telephony calls
- Primary, Secondary, Tertiary

QUESTION 118

Certkiller .com is using Cisco CallManager. The CEO of Certkiller wants all calls from other managers to be sent to the CEO assistant, and all calls from the board of directors to be sent directly to the CEO.

Which tool can enable such filtering?

- A. CRS
- B. IVR
- C. Unity
- D. IPMA

Answer: D

How to Create Filter Lists for a Manager

Filter lists allow managers or assistants to customize the manager's call filtering feature. By default, filter lists are empty. Add numbers to a filter list to customize it. Choose a filter mode to toggle between Inclusive or Exclusive filter lists:

Inclusive-Calls that match the numbers in the Inclusive filter list are sent to manager; the remainder are redirected to the active assistant.

Exclusive-Calls that match the numbers in the Exclusive filter list are redirected to the assistant; the remainder are sent to the manager.

Cisco IPMA compares the caller ID of the incoming call to the phone number(s) in the active filter list.

For example, if you choose if you add the phone number 54321 to a manager's Inclusive filter list, every incoming call placed to the manager's office phone from 54321 will be routed to the manager (not to the assistant) if Inclusive filtering is on.

Or, if you add the number 54xxx to a manager's Exclusive filter list, every incoming call from a phone line with a five digit number that begins with 54 will be routed to the assistant (and not to the manager) if Exclusive filtering is on.

Note Only one filter mode (Inclusive or Exclusive) can be active at any given time.

Managers can toggle between filter modes from the Cisco IPMA menu on their phones.

Assistants can toggle between filter modes for a manager from the Assistant Console.

Filter lists can include the following wildcards:

x-Use x to replace a single digit anywhere in the filter. For example, "123x5" represents five-digit phone numbers, where the fourth digit is 0 - 9. You can use an upper-case or lower-case x.

*-Use * to replace multiple digits at the beginning or end of the filter. For example,

"5*" represents phone numbers of any length that begin with 5.

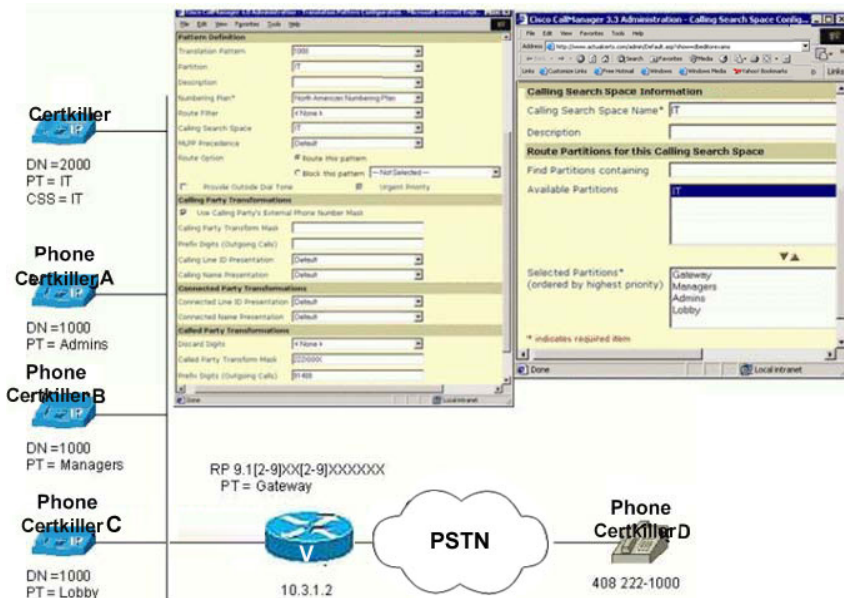
Besides wildcards, filter lists can contain hyphens (-), periods (.), and blank spaces.

Tip Filter lists can be empty. By initial default, the filter is enabled and the Inclusive filter list is empty. This means that all of a manager's incoming calls are redirected to the assistant.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps5015/products_user_guide_chapter09186a008012b

QUESTION 119

Exhibit



Study the exhibit. When Certkiller dials 1000 what phone will ring?

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

Answer: D

Explanation: As the calling search space for Jack Bill phone is IT partition, but either phone Certkiller A or B or C does not belong to IT partition, they won't ring

QUESTION 120

Which three of the following can be assigned a partition? Select three.

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

Answer: B, C, D

QUESTION 121

Which two of the following can be targets of a Route Pattern? Select two.

- A. gateway
- B. route group
- C. route list
- D. translation pattern

Answer: A, C

QUESTION 122

Which four characteristics would typically be used to define a device pool? Select four.

- A. geographic proximity
- B. common use of codecs
- C. common MOH source
- D. common device type
- E. common class of service
- F. common calling search spaces for auto-registration

Answer: A, B, C, F

QUESTION 123

DRAG DROP

An H.323 gateway is being configured for a CallManager with the IP address 10.1.1.102. As a network technician at Certkiller.com you are required to drag the correct commands to the positions that would properly configure the gateway.

Select from these

- session target ipv4:10.1.1.102
- destination-pattern 1.....
- dial-peer voice 102
- session target 10.1.1.102
- preference
- dial-peer voice 102 voip
- dial-peer voice 102 pots

First command

Place command here

Second two commands (in either order)

Place here

Place here

Answer:

First command

dial-peer voice 102 voip

Second two commands (in either order)

session target ipv4:10.1.1.102

destination-pattern 1.....

QUESTION 124

When 1786 is being dialed, which of the following patterns will be selected?

- A. 1[17]XX
- B. 1[4-7]XX
- C. 1XXX!
- D. 1XX6

Answer: D

All the options are potential match. The Cisco CallManager will apply closest match rule to select the best match. The best match is the route pattern in matching table that has the fewest number of route patterns.

- 1[17]XX matches 200 digit strings;
- 1[4-7]XX matches 400 digit strings;
- 1XXX! matches infinite digit strings;
- 1XX6 matches 100 digit strings.

As such 1XX6 will be selected.

QUESTION 125

A range of MeetMe conference numbers is reserved for manager use. Which method can be used to restrict nonmanagers from accessing these MeetMe numbers without limiting the ability to initiate ad hoc conferences?

- A. Place the MeetMe numbers in an MRGL that is only assigned to the manager phones.
- B. Place the MeetMe numbers in a partition that is only assigned to the CSS for the manager phones.
- C. Place the conference bridge resource in an MRGL that is only assigned to the manager phones.
- D. Place the conference bridge resource in a partition that is only assigned to the CSS for the manager phones.

Answer: B

QUESTION 126

Exhibit:

The exhibit shows two screenshots from a Cisco Unified Communications Manager (CUCM) configuration interface. The top screenshot is titled "Region Configuration" and shows the configuration for the "Saint Petersburg" region. It includes buttons for "Update", "Delete", and "Restart Devices". Below the "Region Information" section, the "Region Name" is set to "Saint Petersburg". The "Call Information" section contains a table with columns for "Region", "Audio Codec", and "Video Call Bandwidth". The bottom screenshot is titled "Location Configuration" and shows the configuration for the "Madison" location. It includes buttons for "Copy", "Update", "Delete", and "Resync Bandwidth". Below the "Location Information" section, the "Location Name" is set to "Madison". The "Audio Calls Information" section shows "Audio Bandwidth" set to 512 kbps, and the "Video Calls Information" section shows "Video Bandwidth" set to 768 kbps.

Region	Audio Codec	Video Call Bandwidth
Australia	G.729	<input type="radio"/> None <input type="radio"/> kbps
Madison	G.729	<input type="radio"/> None <input checked="" type="radio"/> 384 kbps
Saint Petersburg (Within this Region)	G.711	<input type="radio"/> None <input checked="" type="radio"/> 384 kbps

Refer to the exhibit. What is the total number of audio and video calls that can exist between St. Petersburg and Madison?

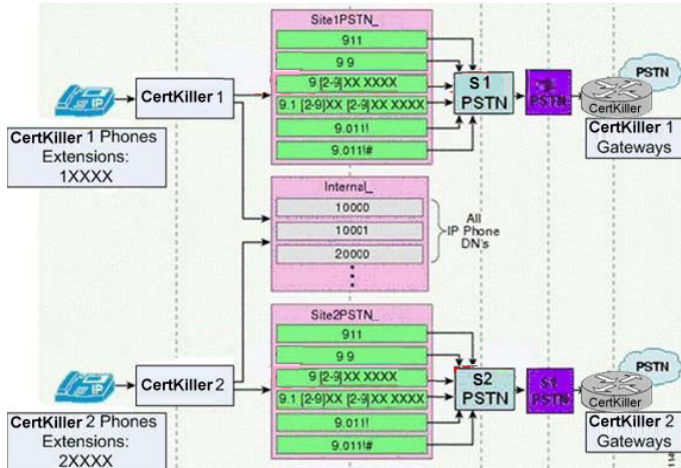
- A. six
- B. eight
- C. ten
- D. twenty-one

- E. twenty-three
- F. twenty-five

Answer: E

QUESTION 127

Exhibit:



In this diagram, what is represented by the green boxes?

- A. partitions
- B. route lists
- C. route groups
- D. route patterns
- E. calling search spaces

Answer: D

QUESTION 128

Which of these configuration parameters provides call admission control in a centralized call processing deployment?

- A. Region
- B. Location
- C. Device Pool
- D. AAR Group
- E. Class of Control

Answer: B

QUESTION 129

Which definition best describes digit matching?

- A. When a digit is dialed, the Cisco CallManager performs an analysis and looks for matching patterns within the answer-address parameter. It then overwrites the

calling-party number or ANI when a match is found.

B. When a call comes in through an MGCP voice gateway, the gateway matches a dial peer based on the incoming called-number, the calling-address parameter, or the answering number destination pattern.

C. When a digit is dialed, the Cisco CallManager performs a digit analysis and looks for matching patterns within a route plan. When a match is found, the destination-pattern is appended to the incoming called-number and the result is reported as the CSS_CallingPartyNumber.

D. When a digit is dialed, the Cisco CallManager performs a digit-by-digit analysis and looks for matching patterns within the route plan.

Answer: D

QUESTION 130

Which of these configuration parameters specifies the codec to be used when a call is placed?

A. Region

B. Location

C. Device Pool

D. AAR Group

E. Class of Control

Answer: A

QUESTION 131

Which of these statements best describes the purpose of route filters?

A. Routefilters are assigned to route plans to reduce the size of the calling search space.

B. Routefilters are assigned to wild card route patterns by using the % character and reducing the number of dial peers required.

C. Route filters are assigned to calling search spaces, are typically used with the @ route filter, and result in reducing the size of the route plan.

D. Route filters are assigned to route patterns, are used only with the @ route pattern, and are geared toward reducing the number of route patterns required.

Answer: D

QUESTION 132

What are Cisco CallManager Regions used for?

A. Specify the bandwidth used for audio and video calls.

B. Define the time zones for devices connected to the Cisco CallManager.

C. Provide alternate call routing when the primary call path is unavailable.

D. Implement call admission control in a centralized call processing deployment.

E. Assign directory numbers to devices as they connect to the IP telephony network.

Answer: A

QUESTION 133

Which definition best describes transformations?

- A. Transformations define and configure discard digits.
- B. Transformations identify and define the tags and operatives used in route filters.
- C. Transformations are a second attempt to allow routing indirection into the call routing process.
- D. Transformations allow the call routing component to modify either the calling number or the dialed digits of a call.

Answer: D

QUESTION 134

Certkiller .com is experiencing poor, choppy audio quality on voice calls placed across their WAN link to and from Madison. What can be done to the Madison Location parameter to help alleviate this problem?

- A. Remove the Madison audio bandwidth parameter in the Location configuration.
- B. Decrease the Madison audio bandwidth setting in the Location configuration.
- C. Increase the Madison audio bandwidth setting in the Location configuration.
- D. Nothing, the Madison audio bandwidth Location parameter is not related to the problem.

Answer: B

QUESTION 135

Certkiller .com has three locations connected via an IP WAN. Each location has a Cisco CallManager cluster, and the headquarters cluster is connected to all other clusters via intercluster trunks. Certkiller wants to allow up to eight 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 eight calls are made, or if the IP WAN is not available, calls should be sent to Certkiller .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 lists required at the headquarters location?

- A. one
- B. two
- C. three
- D. four

- E. five
- F. six

Answer: B

QUESTION 136

You are working with Certkiller .com in their lab to test a non-gatekeeper-controlled inter-cluster trunk between two Cisco CallManager clusters. Which of these parameters needs to be configured so that the inter-cluster trunk functions properly?

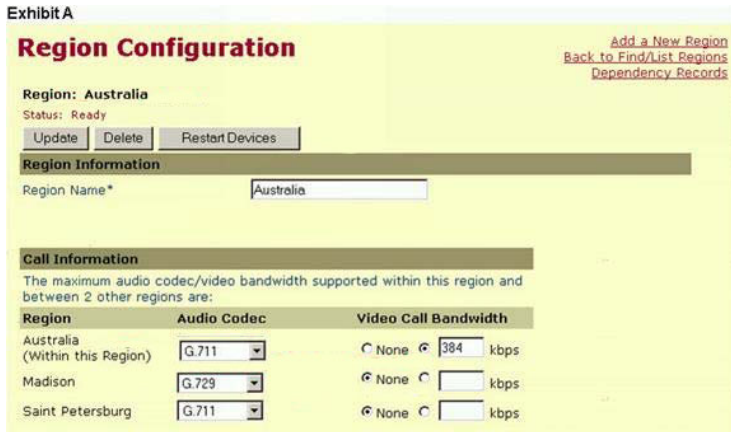
- A. a unique device name throughout the cluster
- B. up to four IP addresses of remote Cisco CallManager server
- C. call classification set to OffNet
- D. a device pool name manually configured for the new trunk

Answer: A

QUESTION 137

Exhibit:


Exhibit A



The screenshot shows the 'Region Configuration' page for the 'Australia' region. The status is 'Ready'. There are buttons for 'Update', 'Delete', and 'Restart Devices'. Under 'Region Information', the 'Region Name' is 'Australia'. Under 'Call Information', a table shows settings for 'Australia (Within this Region)', 'Madison', and 'Saint Petersburg'.

Region	Audio Codec	Video Call Bandwidth
Australia (Within this Region)	G.711	<input checked="" type="radio"/> None <input checked="" type="radio"/> 384 kbps
Madison	G.729	<input type="radio"/> None <input type="radio"/> kbps
Saint Petersburg	G.711	<input checked="" type="radio"/> None <input type="radio"/> kbps

Exhibit B



The screenshot shows the 'Region Configuration' page for the 'Saint Petersburg' region. The status is 'Ready'. There are buttons for 'Update', 'Delete', and 'Restart Devices'. Under 'Region Information', the 'Region Name' is 'Saint Petersburg'. Under 'Call Information', a table shows settings for 'Australia', 'Madison', and 'Saint Petersburg (Within this Region)'.

Region	Audio Codec	Video Call Bandwidth
Australia	G.729	<input type="radio"/> None <input type="radio"/> kbps
Madison	G.729	<input type="radio"/> None <input checked="" type="radio"/> 384 kbps
Saint Petersburg (Within this Region)	G.711	<input type="radio"/> None <input checked="" type="radio"/> 384 kbps

You work as a network technician at Certkiller .com. Refer to the exhibits which came from a centralized call-processing deployment. The administrator configured

the Australia region as in Exhibit

A. The administrator then proceeded to configure the St. Petersburg region as in Exhibit B. If a call is placed from Australia to St. Petersburg, which codec will be used?

- A. G.711.
- B. G.729.
- C. The voice stream from Australia to St. Petersburg will use G.711, and the voice stream from St. Petersburg to Australia will use G.729.
- D. The voice stream from Australia to St. Petersburg will use G.729, and the voice stream from St. Petersburg to Australia will use G.711.
- E. The call cannot complete due to codec mismatch.

Answer: B

QUESTION 138

Which two parts of a route plan are most helpful in configuring a telephony Class of Control? (Choose two.)

- A. partitions
- B. gatekeepers
- C. access lists
- D. intracluster calling
- E. calling search spaces

Answer: A,E

QUESTION 139

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 140

Which two items can a route pattern be assigned? (Choose two.)

- A. gatekeepers that do not perform gateway functions
- B. route groups that contain one or more route filters
- C. gateways
- D. route lists that contain one or more route groups
- E. route filters
- F. route lists that contain one or more route filters

Answer: C,D

QUESTION 141

You are working with Certkiller .com that has made two corporate acquisitions. Each new company has a Cisco CallManager cluster and an associated gateway to the PSTN. The corporate WAN has been extended to each of the acquisitions and includes gatekeeper support.

Which inter-cluster trunking method will be most appropriate for this customer?

- A. H.225 trunk (gatekeeper-controlled)
- B. inter-cluster trunk (non-gatekeeper-controlled)
- C. SIP trunk
- D. inter-cluster trunk (gatekeeper-controlled)

Answer: D

QUESTION 142

DRAG DROP

You work as a network technician at Certkiller .com. Your boss, Mrs. Certkiller, is curious about route plane elements. Match the route plane elements with the proper definitions.

Use each route element once and only once.

- Route pattern
- Route list
- Route group

It is used primary to include digit patterns	Place here
It determines the order of preference for route group usage	Place here
It sets the selection order of the gateway devices	Place here
It works in conjunction with route filters to direct calls to specific devices and to include or exclude specific digits patterns.	Place here

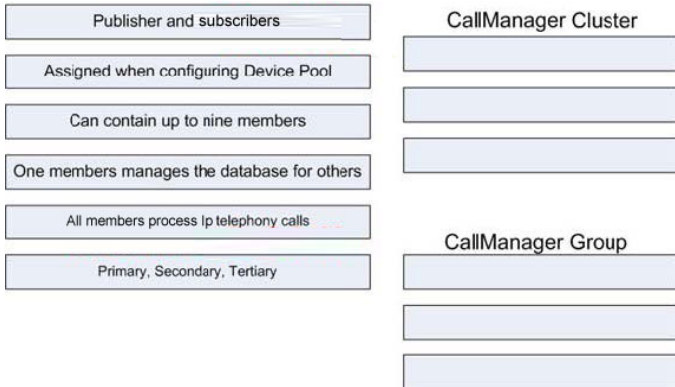
Answer:

It is used primary to include digit patterns	Place here
It determines the order of preference for route group usage	Route list
It sets the selection order of the gateway devices	Route group
It works in conjunction with route filters to direct calls to specific devices and to include or exclude specific digits patterns.	Route pattern

QUESTION 143

DRAG DROP

You work as a network technician at Certkiller .com. Your boss, Mrs. Certkiller, is curious about CallManager characteristics. Match the characteristics with the proper entities.



Answer:

CallManager Cluster

- Publisher and subscribers
- Can contain up to nine members
- One members manages the database for others

CallManager Group

- Assigned when configuring Device Pool
- All members process Ip telephony calls
- Primary, Secondary, Tertiary

Explanation:

QUESTION 144

The Townsend Stamp Activity League wants to configure CAC for a Distributed Deployment to control bandwidth of their Cisco Unified CallManager cluster. In order for the gatekeeper to control voice traffic, where should the bandwidth settings be configured?

- A. Cisco Unified CallManager Administration
- B. Cisco Unified CallManager Trunk Configuration
- C. Gateway
- D. Cisco Unified CallManager Device Configuration

Answer: A

QUESTION 145

Exhibit:

Translation Pattern Configuration

Translation Pattern: 2XX
Status: Ready
Copy Update Delete

Pattern Definition

Translation Pattern: 2XX
Partition: P_CallsFromRoomToRoom
Description: RoomCallingRoom
Numbering Plan*: North American Numbering Plan
Route Filter: <None>
Calling Search Space: CSS_Room
MLPP Precedence: Default
Route Option: Route this pattern
 Block this pattern: — Not Selected —

Provide Outside Dial Tone Urgent Priority

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask:
Prefix Digits (Outgoing Calls):
Calling Line ID Presentation: Restricted
Calling Name Presentation: Restricted

Connected Party Transformations

Connected Line ID Presentation: Restricted
Connected Name Presentation: Restricted

Called Party Transformations

Discard Digits: <None>
Called Party Transform Mask:
Prefix Digits (Outgoing Calls):
* indicates required item.

What will this translation pattern configuration accomplish?

- A. allows the display of the calling number
- B. honors the presentation display of the caller
- C. blocks the display of the calling number
- D. does not change the calling line ID presentation

Answer: C

QUESTION 146

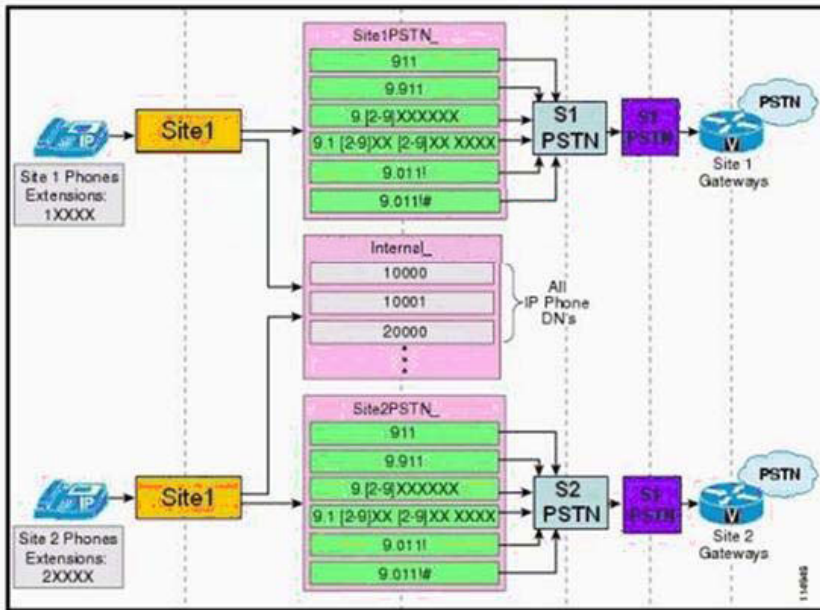
Which two can be targets of a Route Pattern? (Choose two.)

- A. gateway
- B. route list
- C. route group
- D. translation pattern

Answer: A,B

QUESTION 147

Exhibit:



Refer to the exhibit. What is represented by the list of numbers in Site1PSTN and Site2PSTN?

- A. calling search spaces
- B. route lists
- C. route patterns
- D. route groups
- E. partitions

Answer: C

QUESTION 148

Exhibit:

```
Partition = Phones
Partition = Service
Route Pattern X11

Partition = Local
Route Pattern X11
Route Pattern 9.8

Partition = LongDistance
Route Pattern X11
Route Pattern 9.[2-9]XXXXXX
Route Pattern 9.1[2-9]XX[2-9]XXXXXX

Partition = International
Route Pattern 9.011!

CSS A
Phones
Service

CSS B
Service
Local
LongDistance

CSS C
LongDistance

CSS D
Phones
LongDistance
```

Refer to the exhibit. What CSS should be assigned to a phone in the Phones partition to block calls to International numbers while allowing all other calls?

- A. CSS A
- B. CSS C
- C. CSS B
- D. CSS D

Answer: D

QUESTION 149

Which three of these options correctly describe the role of a subscriber in a Cisco CallManager cluster? (Choose three.)

- A. collects CDRs
- B. replicates database to other Cisco CallManager servers
- C. maintains read-only copies of the configuration database
- D. maintains writeable copy of the configuration database
- E. processes IP telephony calls
- F. can have only one in a Cisco CallManager cluster

Answer: A,C,E

QUESTION 150

At Benjamin Church Spyware Co., the Cisco CallManager administrator selects the NANP and then adds the 9.@ route pattern with the filter SERVICE EXISTS. Which pattern will be added?

- A. 9 1 900 [2-9]xx xxxx
- B. 9[2-9]11
- C. 9 011 3[0-469] !

- D. 9[2-9]xx xxxx
- E. 9[2-9]xx [2-9]xx xxxx

Answer: B

QUESTION 151

Which configuration parameter may need to be adjusted when the Region setting is changed?

- A. Location
- B. Region
- C. Device Pool
- D. Class of Control
- E. AAR Group

Answer: A

QUESTION 152

Exhibit:

The exhibit consists of two parts. On the left is a network diagram showing four IP phones: Bob (DN=2000, PT=IT, CSS=IT), Phone A (DN=5000, PT=Admins), Phone B (DN=5000, PT=Managers), Phone C (DN=5000, PT=IT), and Phone D (DN=5000, PT=Lobby). On the right is a screenshot of the Cisco CallManager Administration interface for a Calling Search Space named 'IT'. The 'Route Partitions for this Calling Search Space' section shows a list of available partitions: Managers, Admins, Lobby, and IT. The 'Selected Partitions' section shows the same four partitions, ordered by highest priority.

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

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

Answer: D

QUESTION 153

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

- A. 1515[^0-1]4[123]+
- B. 1515[^0-1]41[2232]
- C. will not match any of these patterns

- D. 1515[^0-2]4[012]+
- E. 1515[^0-2]412[012]+

Answer: A

QUESTION 154

What may occur if the Location audio bandwidth parameter is set too low?

- A. Undesirable codecs may be used to save bandwidth.
- B. The link may be underutilized.
- C. Some calls may experience poor voice quality.
- D. All calls may experience poor voice quality.

Answer: B

QUESTION 155

Which of the following statements regarding Locations are not valid? (Choose all that apply.)

- A. To use Locations successfully, all devices must be registered with different CallManagers.
- B. To successfully use Locations, a single active CallManager is required to maintain CAC.
- C. Locations require that all devices are registered with a single CallManager.
- D. To use Locations successfully, the CallManager must be aware of all devices as well as all call setup, call state and CAC for those devices.
- E. Locations are used between clusters at the central site connected to separate remote sites.
- F. Three Cisco CallManagers in a cluster can be used providing all phones are registered with the same CallManager.

Answer: A, B, C, E, F

With Cisco CallManager Release 3.1 and later, the locations bandwidth is shared among all Cisco CallManager subscribers in the cluster, thus enabling you to use the locations mechanism with any size cluster.

(*PAGE 7-3 Cisco IP Telephony IP Solution Guide)

QUESTION 156

Is the following true or false? The database configuration information is modified on the Subscriber and replicated out to all Publishers.

- A. False
- B. True

Answer: A

QUESTION 157

Which of the following features are offered by Cisco CallManager Groups? (Choose all that apply.)

- A. Redundancy
- B. Centralized Call Processing
- C. Isolated Call Processing
- D. Distributed Call Processing
- E. Transcoding
- F. Conferencing

Answer: A, D

Cisco CallManager Group

Use Cisco CallManager groups to specify which Cisco CallManager controls which devices on your network. Cisco CallManager groups provide two important features for your system:

Distributed call processing-This feature enables you to distribute the control of devices

across multiple Cisco CallManagers. See the "Distributed Call Processing" section.

Redundancy-This feature enables you to designate a primary and backup Cisco CallManagers for each group. See the "Redundancy" section.

QUESTION 158

What is the WAN link percentage limitation when configuring the maximum bandwidth for a zone?

- A. 30%
- B. 50%
- C. 40%
- D. 75%
- E. 10%
- F. 100%

Answer: D

Capacity Planning

Before you place video traffic on a network, ensure that adequate bandwidth exists for all necessary applications. First, calculate the minimum bandwidth requirements for each major application, for example, voice, video, and data. The sum represents the minimum bandwidth requirement for any specific link. This amount should consume no more than 75 percent of the total bandwidth available on that link. This 75 percent rule assumes that some bandwidth is necessary for overhead traffic. Examples of overhead traffic include routing protocol updates and Layer 2 keepalives, as well as additional applications, such as e-mail and HTTP traffic. Have voice and video traffic occupy no more than 33 percent

of link capacity. This Example Scenario explains capacity planning on a converged network.

http://www.cisco.com/en/US/partner/tech/CK543/CK757/technologies_tech_note09186a0080094968.shtml

QUESTION 159

Partitions and Calling Search Spaces are designed to address which types of problems?

- A. Routing by geographical location
- B. Routing by tenant
- C. Routing by gateway
- D. Routing by class of user
- E. Routing by IP address

Answer: A, B, D

Cisco CallManager System Guide, Release 3.1(2)

Partitions and calling search spaces address three specific problems:

Routing by geographical location

Routing by tenant

Routing by class of user

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_administration_guide_chapter0

QUESTION 160

When using the Cisco Multi Site WAN Distributed Call Processing Deployment model, a H.323 gatekeeper achieves CAC (Call Admission Control) by limiting the number of incoming and outgoing calls of specified zones. If you are already in Gatekeeper configuration mode what is the unabbreviated IOS command on the Gatekeeper that you would use to assign a CallManager with the IP Address of 192.168.1.1 to zone 1?

Answer: zone subnet zone1 192.168.1.1/32 enable

QUESTION 161

Disconnect Supervision is a device requirement for the support of Call Preservation. Which of the following statements regarding Disconnect Supervision is valid? (Choose all that apply.)

- A. End User Release Disconnect Supervision is where the device can detect when the user of the connection has hung up.
- B. Timed Disconnect Supervision is where the device can detect when the user of the connection has hung up.
- C. End User Release Disconnect Supervision is used by devices when there is no end-user that has the ability to initiate the release of the connection.
- D. Timed Disconnect Supervision is used by devices when there is no end-user that has the ability to initiate the release of the connection.
- E. Media Streaming Failure (MSF) Disconnect Supervision is achieved by reacting to an

"ICMP" port not reachable, received as a result of transmitting media packets.
F. MSF stands for Multi Streaming Facility

Answer: A, D, E

QUESTION 162

What are the primary forms of intra-cluster communications? (Choose all that apply.)

- A. IP Phone, gateway and DSP resource registration
- B. Call Admission Control requests
- C. SQL database configuration information
- D. Digit Analysis
- E. Routing updates

Answer: A, C

QUESTION 163

The newly appointed Certkiller trainee technician wants to know which type of Gateway have all dial plan information configured internally. What will your reply be?

- A. Not so stubby
- B. H.323
- C. MGCP
- D. Skinny
- E. VG200

Answer: B

QUESTION 164

Is the following true or false? Locations provide Call Admission Control (CAC) in a Cisco Multi Site WAN Centralized Call Processing Deployment model environment.

- A. True
- B. False

Answer: A

QUESTION 165

The newly appointed Certkiller trainee technician wants to know what the primary function of CallManager is. What will your reply be?

- A. Directory Services
- B. Supplementary Services
- C. Call Processing

- D. Layer 3 Switching
- E. Routing
- F. Voice Messaging
- G. None of the above

Answer: C

Routers that reside at the WAN edges require quality of service (QoS) mechanisms, such as priority queuing and traffic shaping, to protect the voice traffic from the data traffic across the WAN, where bandwidth is typically scarce. In addition, a call admission control scheme is needed to avoid oversubscribing the WAN links with voice traffic and deteriorating the quality of established calls. For centralized call processing deployments, the locations construct within Cisco CallManager provides call admission control

QUESTION 166

Which of the following are the device requirements for supporting call preservation? (Choose all that apply.)

- A. Active Connection Maintenance
- B. Call Admission Control
- C. Intracluster Communication
- D. Disconnect Supervision
- E. Switchover Algorithm
- F. Skinny Registration

Answer: A, D, E

QUESTION 167

Is the following true or false? Conferencing and Transcoding resources can be utilized across multiple CallManagers within a cluster and are considered to be shared resources.

- A. False
- B. True

Answer: B

QUESTION 168

What will be the consequence of an eleventh call being placed across the WAN when Call Admission Control is being used in the network when a WAN link has been established between two sites with sufficient bandwidth to carry ten voice calls between the two locations?

- A. The first ten calls will be terminated to permit the eleventh call.
- B. The tenth call will be terminated to permit the eleventh call.
- C. The eleventh call will not be allowed.
- D. The eleventh call will be allowed and will cause poor quality for all the calls.

E. All calls will be terminated and the network will have to back off for a pre-determined time until calls can be placed again.

Answer: C

QUESTION 169

Is the following true or false? Delay refers to the time it takes a packet to reach the receiving endpoint after being transmitted from the sending endpoint.

- A. True
- B. False

Answer: A

QUESTION 170

Which of the following devices provide CAC (Call Admission Control) in a Cisco Multi Site WAN Distributed Call Processing environment?

- A. Cisco Call Manager
- B. NT Server
- C. VG200
- D. Gatekeeper
- E. Switch

Answer: D

QUESTION 171

The newly appointed Certkiller trainee technician wants to know what the core requirements in a CCM deployment are. What will your reply be? (Choose all that apply.)

- A. call survivability
- B. CCM redundancy
- C. trans coding services
- D. supplementary services
- E. all of the above

Answer: A, B, D

QUESTION 172

Which protocol will you recommend to a Certkiller customer who is migrating from a centralized multi-site deployment model to a distributed model, but who wants the flexibility of having a gateway register with either a CCM or gatekeeper.

- A. SMDI
- B. H.323

- C. Not so stubby
- D. MGCP
- E. Skinny

Answer: B

QUESTION 173

The Class of Service utilizing partitions and CSS is a way to restrict or allow devices access to which of the following: (Choose all that apply.)

- A. Gateways
- B. IP Phones
- C. Route patterns
- D. Local PSTN
- E. Gatekeepers
- F. Directory numbers

Answer: C, F

QUESTION 174

Which CallManager dial plan architecture component can be assigned to a partition?

- A. Route List
- B. Route Path
- C. Route Pattern
- D. Route Point
- E. Trunk Group
- F. Route Group

Answer: C

QUESTION 175

Which of the following will restrict destination numbers when a user chooses call forwarding?

- A. The department ID of the caller.
- B. The original destination number.
- C. The device pool of the original destination phone.
- D. The calling search space.
- E. None of the above.

Answer: D

QUESTION 176

What function does the dial plan perform when using a gatekeeper?

- A. The dial plan issues instructions to the gatekeeper to reallocate bandwidth.
- B. The dial plan allows devices to find the correct gatekeeper.
- C. The dial plan determines the action to be taken when a call is rejected by the gatekeeper.
- D. The dial plan controls the amount of bandwidth to request from the gatekeeper.

Answer: C

QUESTION 177

Certkiller .com just installed CCM to replace their entire corporate phone system. The CEO entered his home phone as a speed dial, 9483329. However the phone call is not going through. What is the most likely cause?

- A. The number has been corrupted in the memory of the phone.
- B. The CEO has not been added to the user directory so speed dial is not available.
- C. The administrator neglected to add the CEO to the user directory.
- D. The number is outside the corporate network and needs to be preceded by the PSTN access code.
- E. The CCM is only responding to the first 4 digits of the number and is attempting to make a call within the network.

Answer: D

QUESTION 178

Your newly appointed Certkiller trainee wants to know at what the preferred method of endpoint location when deploying E-911 services is. What will your reply be?

- A. CAM table
- B. Locatable IP address assignment
- C. Port scan with sticky assignment
- D. MAC address discovery using CDP

Answer: D

QUESTION 179

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what will happen if a phone has a calling search space and the line on that phone also has a calling search space. What will your reply be?

- A. CCM will use both calling search spaces.
- B. CCM will use the line calling search space only.
- C. CCM will use the device calling search space only.

D. The administrator will receive an error when trying to configure a calling search space on both the phone and the line.

Answer: A

Explanation: CCM would use both CSS defined in the line and phone.
The CSS defined in line would override that defined in phone.

QUESTION 180

You are a CCM administrator at Certkiller . You have configured your CCM to use the Predot 10-10 Dialing Digit discard instruction with the route pattern "9.@".

Your newly appointed Certkiller trainee wants to know at what is sent to the gateway device when a user dials 9101028812149492215.

What will your reply be?

- A. 12149492215
- B. 28812149492215
- C. 101028812149492215
- D. 91010298812149492215

Answer: A

Discard

DDI	Effect	Example
10-10-Dialing	This DDI removes <ul style="list-style-type: none">• IXC access code	Route pattern: 9.@ Dialed digit string: 910102889728135000 After applying DDI: 99728135000

QUESTION 181

You are a CCM administrator at Certkiller . You want to check CCM routing decisions.

What is the graphic used to display a decision flow showing all possible routing choices?

- A. call flow
- B. call decision tree
- C. call decision profile
- D. call routing summary

Answer: B

QUESTION 182

Which of the following route filter tags support 01 1 33 123456#?

- A. TRANSIT-NETWORK
- B. INTERNATIONAL-ACCESS
- C. INTERNATIONAL OPERATOR
- D. TRANSIT-NETWORK-ESCAPE

Answer: B

Route Filter Tag Descriptions

The tag serves as the core component of a route filter. A tag applies a name to a subset of the dialed-digit string. For example, the NANP number 972-555-1234 comprises LOCAL-AREA-CODE (972), OFFICE-CODE (555), and SUBSCRIBER (1234) route filter tags.

Route filter tags require operators and can require additional values to decide which calls are filtered.

The values for route filter tag fields can contain the wildcard characters X, *, #, [,], -, ^, and the numbers 0 through 9. The descriptions in Table 14-2 use the notations [2-9] and XXXX to represent actual digits. In this notation, [2-9] represents any single digit in the range 2 through 9, and X represents any single digit in the range 0 through 9. Therefore, the description "The three-digit area code in the form [2-9]XX" means you can enter the actual digits 200 through 999, or all wildcards, or any mixture of actual digits and wildcards that results in a pattern with that range.

Table Route Filter Tags

Tag	Description
AREA-CODE	This three-digit area code in the form [2-9]XX identifies the area code for long-distance calls.
COUNTRY CODE	These one-, two-, or three-digit codes specify the destination country for international calls.
END-OF-DIALING	This single character identifies the end of the dialed-digit string. The # character serves as the end-of-dialing signal for international numbers dialed within the NANP.
INTERNATIONAL-ACCESS	This two-digit access code specifies international dialing. Calls originating in the U.S. use 01 for this code.

QUESTION 183

What is a route list?

- A. A collection of dial plans
- B. A collection of access lists
- C. A collection of device pools
- D. A collection of route groups

Answer: D

QUESTION 184

Which of the following can be assigned to a partition? (Choose three)

- A. Gateway
- B. Route pattern
- C. Directory number
- D. Translation pattern

Answer: B, C, D

QUESTION 185

You are a CCM administrator at Certkiller . You want to check if there is an overlaps in the route patterns.

Which CCM feature would you use?

- A. Route Plan Report
- B. Translation Plan Report
- C. Route Plan Detail Report
- D. Route and Translation Report

Answer: A

QUESTION 186

You are a CCM administrator at Certkiller . You need to route the following destinations:

- 1111
- 1311
- 1711
- 1722
- 1922

Which route pattern routes would you use?

- A. 1[12579]XX
- B. 1[1379][12]X
- C. 1[1-69][23][12]
- D. 1[^24568][^12]X

Answer: B

QUESTION 187

Which of the following are types of analog voice gateways?

- A. CO Gateways only
- B. CO and CAS Gateways
- C. CCS and Trunk Gateways
- D. Trunk and Station Gateways
- E. CAS and Station Gateways

Answer: D

Explanation: Station Gateway: Access analog station gateways connect Cisco CallManager to plain old telephone service(POTS) analog telephones,interactive voice response(IVR) systems,fax machines, and voice-mail systems.Station gateways provide Foreign Exchange Station(FXS) ports for connecting to analog devices such as telephones and faxes. Trunk Gateway: Access analog trunk gateways connect Cisco

CallManager to PSTN central office(CO) or PBX trunks. Trunk gateways provide Foreign Exchange Office(FXO) ports for PSTN or PBX access and E&M ports for analog trunk connection to a legacy PBX.

Cisco CallManager System Guide, Release 3.1(2)

Understanding Voice Gateways

Cisco Analog Access Station Gateways

Station gateways let you connect the Cisco CallManager to POTS analog telephones, interactive voice response (IVR) systems, fax machines, and voice-mail systems. Station gateways provide FXS ports. The AS-2, AS-4, and AS-8 models accommodate two, four, and eight Voice over IP (VoIP) gateway channels, respectively.

Cisco AS gateways communicate with Cisco CallManager using SGCP.

Cisco Access Analog Trunk Gateways

Analog trunk gateways let you connect the Cisco CallManager to standard PSTN central office (CO) or PBX trunks. Trunk gateways provide FXO ports. The AT-2, AT-4, and AT-8 models accommodate two, four, and eight VoIP gateway channels. Loop-start signaling type applies.

Cisco AT gateways communicate with Cisco CallManager using SGCP.

156. Given answer is correct, explanation is found at:

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

QUESTION 188

You are a CCM administrator at Certkiller . You notice that devices are not auto-registering with the correct CCM server. You want to verify that the correct device pool has been configured.

What should you check?

- A. The Default Device
- B. The Auto-registration
- C. The DHCP Server field
- D. The TFTP Server field

Answer: B

Note: Uncertainty.

Answer A is not correct, there is no such thing as "The Default Device". The correct answer may be B, or if A gave the option of "The Default Device Pool" that would be the most correct answer.

QUESTION 189

Which of the following gateway protocols have all their dial plan information configured in CCM?

- A. MGCP only
- B. SIP and H.323
- C. SIP and Skinny
- D. MGCP and Skinny

Answer: D

Cisco CallManager System Guide, Release 3.1(2)

Understanding Voice Gateways

Gateways, Dial Plans, and Route Groups

Use dial plans to access or call out to the PSTN, route groups, and group-specific gateways. Ensure remote Cisco CallManagers across the IP WAN are configured as intercluster (H.323) gateways.

The different gateways used within the Cisco IP Telephony Solutions have dial plans configured in different places:

Configure dial-plan information for both Skinny and MGCP gateways in the Cisco CallManager.

Typically configure H.323-based Cisco IOS Software gateways dial plan in Cisco CallManager to access that gateway and configure dial peers in the gateway to pass that call out the gateway.

The route group points to one or more gateways and can select the gateways for call routing based on preference. The route group can direct all calls to the primary device and then use the secondary devices when the primary is unavailable. This serves effectively as a trunk group. One or more route lists can point to the same route group. All devices in a given route group share the same characteristics such as path and digit manipulation. Route groups can perform digit manipulation that will override what was performed in the route pattern.

Configuration information associated with the gateway defines how the call is actually placed.

You can configure an H.323 gateway to be gatekeeper-controlled. This means that before a call is placed to an H.323 device, it must successfully query the gatekeeper. Multiple clusters for inbound and outbound calls can share H.323 gateways, but MGCP and SGCP-based gateways are dedicated to a single Cisco CallManager cluster.

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

QUESTION 190

You are the network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what protocol is used once a call is established between two Cisco IP phones in the same network segment.

What will your reply be?

- A. RTP
- B. VoIP
- C. Skinny
- D. VoATM
- E. Voice Stream Protocol

Answer: A

QUESTION 191

You are the network administrator at Certkiller . You want to assign a redundancy group to a device pool.

What is the maximum number of servers that can be included in the redundancy group?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

Answer: C

QUESTION 192

Which of the following are the core gateway requirements in a CCM deployment?

- A. Transcoding services, CCM redundancy, and Supplementary services
- B. Call survivability, CCM redundancy, and Supplementary services
- C. Transcoding services, and Supplementary services
- D. Supplementary services only

Answer: B

QUESTION 193

In CCM, which two functions does the gatekeeper perform? (Choose two)

- A. call routing
- B. conference controller
- C. call admission control
- D. E.164 dial plan resolution

Answer: C, D

Gatekeeper Functionality

The H.323 standard defines mandatory and optional gatekeeper functions:

Mandatory Gatekeeper Functions

* Address Translation- Translates H.323 IDs (such as gwy1@domain.com) and E.164 numbers (standard telephone numbers) to endpoint IP addresses.

* Admission Control- Controls endpoint admission into the H.323 network. In order to achieve this, the gatekeeper uses these:

- o H.225 Registration, Admission, and Status (RAS) messages
- o Admission Request (ARQ)
- o Admission Confirm (ACF)
- o Admission Reject (ARJ)

* Bandwidth Control- Consists of managing endpoint bandwidth requirements. In order to achieve this, the

gatekeeper uses these H.225 RAS messages:

- o Bandwidth Request (BRQ)
- o Bandwidth Confirm (BCF)
- o Bandwidth Reject (BRJ)

* Zone Management- The gatekeeper provides zone management for all registered endpoints in the zone. For example, controlling the endpoint registration process.

Optional Gatekeeper Functions* Call Authorization- With this option, the gatekeeper can restrict access to certain terminals or gateways and/or have time-of-day policies restrict access.

* Call Management- With this option, the gatekeeper maintains active call information and uses it to indicate busy endpoints or redirect calls.

* Bandwidth Management - With this option, the gatekeeper can reject admission when the required bandwidth is not available.

* Call Control Signaling- With this option, the gatekeeper can route call-signaling messages between H.323 endpoints with the use of the Gatekeeper-Routed Call Signaling (GKRCS) model. Alternatively, it allows endpoints to send H.225 call-signaling messages directly to each other.

http://www.cisco.com/en/US/partner/tech/CK652/CK701/technologies_tech_note09186a00800c5e0d.shtml

QUESTION 194

You want to route calls from one site over the WAN to another site. Your user community dials a full long distance number, but you want to only route the five digit extension.

What is the most effective solution?

- A. Use a route filter with a called party transformation mask to change the full long distance number to only five digits.
- B. Use a route filter with a calling party transformation mask to change the full long distance number to only five digits.
- C. Use a translation pattern with a calling party transformation mask to change the full long distance number to only five digits.
- D. Use a translation pattern with a called party transformation mask to change the full long distance number to only five digits.

Answer: D

QUESTION 195

Which two do you configure to limit call routing by tenant, class of user, and geographic location? (Choose two)

- A. partition
- B. access list
- C. dial route limit
- D. calling search space

Answer: A, D

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Note: These are the three problems addressed by the partition & call search space.

1. Routing by tenant
2. Routing by class of user
3. geographic location

QUESTION 196

What must be configured in CCM prior to adding IP phones to the server?

- A. a partition
- B. a device pool
- C. a subscriber account
- D. a calling search space

Answer: B

QUESTION 197

Which codec is recommended in single-site deployments to make voice mail connections simple and to limit use of DSP resources?

- A. G.711
- B. G.723
- C. G.726
- D. G.729

Answer: A

Explanation: Old Voice mail system use G.711 codec. G.729 would use DSP resource a lot!

Single Site

The single-site model for IP telephony consists of a call processing agent located at a single site, or campus, with no telephony services provided over an IP WAN. An enterprise would typically deploy the single-site model over a LAN or metropolitan area network (MAN), which carries the voice traffic within the site. In this model, calls beyond the LAN or MAN use the public switched telephone network (PSTN).

The single-site model has the following design characteristics:

Single Cisco CallManager or Cisco CallManager cluster

Maximum of 30,000 IP phones per cluster

PSTN for all external calls

Digital signal processor (DSP) resources for conferencing, transcoding, and media termination point (MTP)

Voicemail and unified messaging components

Only G.711 codecs for all IP phone calls (80 kbps of IP bandwidth per call, uncompressed)

Capability to integrate with legacy private branch exchange (PBX) and voicemail systems

Reference: Cisco IP Telephony Solution Reference Network Design (SRND), Cisco

CallManager Release 4.1, April 2005.

QUESTION 198

A called party digit string of 5567890 matches a Translation Pattern. The Translation Pattern has a called party transformation mask of 33xxx11. What is the transformed called party result?

- A. 3367890
- B. 55xxx90
- C. 5567811
- D. 3367811

Answer: D

QUESTION 199

Which three need to be configured to provide alternate call routing when a gatekeeper rejects a call due to lack of bandwidth? (Choose three)

- A. Route List
- B. Route Filter
- C. Route Group
- D. Route Pattern
- E. Translation Pattern

Answer: A, C, D

QUESTION 200

A limited amount of information is available on the Route Plan Report web page in CCM. How can more detailed information be obtained?

- A. By saving the Route Report to a CSV file.
- B. By running the Advanced option on the Route Report page.
- C. By running the Route Report when logged in as Administrator.
- D. By using the prepared ROUTE_REPORT SQL query in Query Analyzer.

Answer: A

Cisco CallManager Administration Guide, Release 3.1(2)

Route Plan Report

The route plan report lists all call park numbers, call pickup numbers, conference numbers, such as Meet-Me numbers, route patterns, and translation patterns in the system. The route plan report allows you to view either a partial or full list, and to go directly to the associated configuration windows, by selecting a route pattern, partition, route group, route list, call park number, call pickup number, conference number, or gateway.

In addition, the route plan report allows you to save report data into a .csv file that you can import into other applications. The .csv file contains more detailed information than the web pages, including directory numbers (DN) for phones, route patterns, and

translation patterns.

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

QUESTION 201

What can you use in a centralized call processing environment to dynamically reroute a call over PSTN if the call exceeds the allocated WAN bandwidth?

- A. PSTN Automated Failover (PAF)
- B. WAN Redirection Algorithm (WRA)
- C. Automatic WAN Provisioning (AWP)
- D. Automated Alternate Routing (AAR)

Answer: D

Cisco CallManager System Guide, Release 4.0(1)

Understanding Route Plans

Automated Alternate Routing

Automated alternate routing (AAR) provides a mechanism to reroute calls through the PSTN or other network by using an alternate number. As a subset of the AAR feature, Cisco CallManager automatically reroutes calls through the PSTN or other networks when Cisco CallManager blocks a call due to insufficient location bandwidth. With automated alternate routing, the caller does not need to hang up and redial the called party.

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

QUESTION 202

Extension Mobility is a series of scripts written on top of a CCM add-on engine. What is that engine known as?

- A. Automated Attendant
- B. Integrated Call Scripting
- C. Customer Response Solution
- D. Extension Mobility Extensions

Answer: C

QUESTION 203

What happens if you do not assign a directory number to a partition?

- A. The directory number will not be allowed to receive calls.
- B. The directory number will be assigned to the null partition.
- C. The directory number will not be assigned to any partition.
- D. The directory number will be assigned to the partition named Default.

Answer: B

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If you do not specify a partition for a route pattern or a DN, CCM lists the route pattern or DN in the null partition to resolve dialed digits. Digit analysis looks through the null partition last.

QUESTION 204

What should be done to a subscriber in the event of a failure of the publisher CallManager?

- A. A subscriber CCM should be promoted to a publisher.
- B. A subscriber CCM should be left alone until a new publisher is built.
- C. A subscriber CCM should be used to restore the publisher database.
- D. A subscriber CCM should become the primary CallManager for all devices.

Answer: B

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If the publisher fails, you must restore the publisher server from the last successful database backup.

QUESTION 205

You have installed a new CCM server. In the services applet you notice that none of the CCM services have started.

What is the first step you should take?

- A. Rerun CCM installation and select Autostart Services.
- B. Manually activate the required CCM services in CCM Admin.
- C. Log on as the CCM service account and check authentication.
- D. Change the service account permissions to include Autostart Services.

Answer: B

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You should activate the CCM services on the Service Activation page.

QUESTION 206

The following calling search space assignments are made:

Person 1 - Sales

Person 2 - Administrators

Person 3 - Executive

The park code of 6000 is assigned to the inbound partition of the sales search space.

Who can pick up when a call comes in that is parked to 6000?

- A. Only Person 1
- B. Only Person 2
- C. Only Person 1 or Person 2
- D. Person 1, Person 2, or Person 3

Answer: A

QUESTION 207

What is the order of placement when creating a route plan?

- A. Route groups are added to gateways and gateways are added to route lists and route lists are added to route pattern.
- B. Gateways are added to route groups and route groups are added to route lists and route lists are added to route patterns.
- C. Gateways are added to route lists and route lists are added to route groups and route groups are added to route patterns.
- D. Route patterns are added to route groups are route groups are added to route lists and route lists are added to gateways.

Answer: B

QUESTION 208

Under which condition is the use of the Cisco Emergency Response most appropriate?

- A. Small offices under 48 phones.
- B. IP phones in a static environment.
- C. Shared-line appearances in multiple physical locations.
- D. SoftPhone and laptops connected through wireless network connections.

Answer: C

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QUESTION 209

You have configured your Cisco CallManager to use the PreDot Dialing Digit discard instruction with the pattern "9.!".

What is sent to the gateway device when a user dials 912145551212?

- A. 2145551212
- B. 12145551212
- C. 92145551212
- D. 912145551212

Answer: B

QUESTION 210

When configuring partitions and CSSs, how do you limit the access that the gateways have?

- A. You should create CSSs for different classes of restriction (i.e. Local Dialing, Internal

Only, Long Distance, International, etc) so that the route patterns can later be assigned the correct CSS to limit their access.

B. You should create partitions for different classes of restriction (i.e. Local Dialing, Internal Only, Long Distance, International, etc) so that the route patterns can later be assigned the correct partition to limit their access.

C. You should create CSSs for different classes of restriction (i.e. Local Dialing, Internal Only, Long Distance, International, etc) so that the gateways can later be assigned the correct CSS to limit the access of those gateways.

D. You should create partitions for different classes of restriction (i.e. Local Dialing, Internal Only, Long Distance, International, etc) so that the gateways can later be assigned the correct partition to limit the access of those gateways.

Answer: C

QUESTION 211

When configuring CallManager, what should be listed in the System>Server configuration page?

A. IP addresses of all the CallManagers in the cluster.

B. Fully Qualifies Domain Name listing of all the CallManagers in the cluster.

C. Names of all the CallManagers in the cluster in the form CM_<hostname>

D. Names of all the CallManagers in the cluster in the form CCM_<hostname>

Answer: A

QUESTION 212

Which gateway protocol is used to interconnect CallManager clusters?

A. SIP

B. H.323

C. MGCP

D. Skinny

Answer: B

QUESTION 213

What is the key element in call admission control when interconnecting CallManager sites via the IP WAN?

A. Gatekeepers

B. Voice messaging

C. Media resources

D. Call processing agents

Answer: A

QUESTION 214

In a distributed call processing model, which three are located at each site? (Choose three)

- A. Gatekeeper
- B. Voice messaging
- C. Media resources
- D. Cisco CallManager cluster

Answer: B, C, D

QUESTION 215

Where do you configure the maximum bandwidth allowed for voice calls, when using a gatekeeper device configured as an "Anonymous Device"?

- A. VG200
- B. Gatekeeper
- C. H.323 gateway
- D. Cisco CallManager
- E. Intercluster trunk gateway

Answer: B

QUESTION 216

Using compressed RTP (cRTP), approximately how many bytes can a 40-byte IP + UDP + RTP header be compressed to?

- A. 2-4 bytes
- B. 8-10 bytes
- C. 12-16 bytes
- D. 18-20 bytes

Answer: A

QUESTION 217

DRAG DROP

Place the amount of bandwidth next to the codec that is delivered to the gatekeeper from the Cisco CallManager.

Codes	
(place bandwidth here)	G.711
(place bandwidth here)	G.723
(place bandwidth here)	G.729

Bandwidths to be placed

128 kbps	14 kbps	20 kbps
----------	---------	---------

Answer:

Explanation:

128kbps = g.711

14kbps = g.723

20kbps = g.729

QUESTION 218

What are three techniques that provide link fragmentation and interleaving?
(Choose three)

- A. MLP
- B. LLQ
- C. FRF. 12
- D. MLP over ATM

Answer: A, B, D

QUESTION 219

A CCS is applied to _____.

- A. Patterns
- B. Route Lists
- C. Route Groups
- D. Calling entities

Answer: D

QUESTION 220

The administrator needs to route to the following destinations:

1111

1311

1711

1722

1922

Which Route Pattern routes to all the specified destinations?

- A. 3[12579]XX
- B. X[1379][12]X
- C. X[1-69][23][12]
- D. Z[^24568][^12]X

Answer: B

QUESTION 221

In order for two phones to be able to call each other, what must be true?

- A. They must both be in the same CSS.
- B. They must both be in the same partition.
- C. They must have a CSS that includes the partition of the other phone.
- D. They must have a CSS that includes the partition of the other phone's line.

Answer: C

Calling Search Spaces & Partitions are basic, fundamental components of Cisco IP Telephony. Phones can call other phones (or more correctly, Directory Numbers on phones) if they are in the same Partition or if they are assigned a Calling Search Space that included a Partition that the called Directory number is in. If two phones are assigned the same CSS they cannot necessarily call one another.

QUESTION 222

In the following line from a CCM trace:

Digit analysis: Add local pattern Line2/1620

What does 'Line 2' refer to?

- A. The name of a CSS.
- B. The name of a partition.
- C. The 2nd line of an IP Phone with the extension 1620.
- D. The 1620 directory number registered as the second line on an IP Phone.

Answer: D

QUESTION 223

What do VoIP endpoints use to turn delay variations into a constant value so voice can be played out?

- A. Jitter buffers
- B. Serialization delay
- C. Low-latency queuing
- D. Link fragmentation and interleave

Answer: A

Delay variation (or jitter) is the difference in the end-to-end delay between packets. Each end station in a

VoIP or Video over IP conversation has a jitter buffer. Jitter buffers are used to smooth out changes in arrival times of data packets containing voice.

Page 1-3, Cisco AVVID Network Infrastructure Enterprise Quality of Service Design

QUESTION 224

From centralized deployment, how do you ensure the local user accesses their local PSTN given that each remote office is set up with their own local partition and CSS?

- A. The local gateway is a member of the local partition.
- B. The remote gateway is a member of the local partition.
- C. The local PSTN Route Pattern is a member of the local partition.
- D. The remote PSTN Route Pattern is a member of the local partition.

Answer: C

QUESTION 225

Which filter can be used to block all 900 calls?

- A. @ where area-code = 9
- B. @ where area-code = 900
- C. @ where area-code exists
- D. @ where national number = 900

Answer: B

Understanding and Troubleshooting Call Routing and Dial Pattern Problems with Cisco CallManager
Document ID: 13920

Blocking access to certain area codes and numbers is accomplished with a separate

Partition (such as Block900 in the examples later in this document) for each pattern that should be denied access (such as 9.@ where AREA-CODE=900). Because this is a closer match than a simple 9.@ where AREA-CODE EXISTS, and the Route Pattern is configured to block (instead of route) anything that matches this Pattern, the filtering works.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_tech_note09186a00800949f0.shtml

QUESTION 226

Which QoS tool is defined as "marking a packet or flow with a specific priority"?

- A. Queuing
- B. Scheduling
- C. Classification
- D. Network provision

Answer: C

QUESTION 227

What does the Digit Discard Instruction of PreDot do to the pattern 9.2148134444?

- A. Prefix a 9 before the '.' if none is dialed.
- B. Discard 2148134444 and send the 9 access code.
- C. Only collect the first four digits counting right to left.
- D. Change it to 2148134444 before presenting it to the PSTN.

Answer: D

QUESTION 228

You have all ten digits being sent to your CM from the PSTN (via a gateway). If you have four digit extensions, how do you make sure the call gets routed?

- A. Update the Phone Calling Party mask.
- B. Change the Route Group configuration.
- C. Configure the GW to only collect four digits.
- D. Change the Network Side/User Side Parameter on the gateway.

Answer: C

QUESTION 229

Which QoS method can be used to compensate for serialization delay?

- A. Separating voice and data into different queues.
- B. Combining Voice and Data into the same queues.
- C. Provisioning a larger bandwidth circuit for the link.
- D. Tagging the voice packets with a COS = 7 and Data = 5.

Answer: C

QUESTION 230

In Cisco CallManager Administration, where do you place the most restrictive CSS?

- A. User
- B. Phone
- C. Gateway
- D. Directory number

Answer: D

Calling Search Spaces cannot be associated with a User. They can be assigned to a phone at the device level and to individual Directory Numbers on the phone. The more specific setting takes precedence over the more general, therefore a Directory Number (or line) setting takes precedence over a general phone or device setting.

QUESTION 231

Which three can be configured via the CallManager Service Parameters? (Choose three)

- A. Services URL
- B. Default MoH source
- C. Message waiting on/off numbers
- D. The preferred packet size for G.711 packets

Answer: B, C, D

Cisco CallManager Administration Guide, Release 3.0(1)

Understanding Service Parameters

ParamName	Values	Description
MessageWaitingOffDN		Specifies the directory number to which calls from a voicemail system are directed to disable or turn off the Message Waiting light for the specified calling party.
MessageWaitingOnDN		Specifies the directory number to which calls from a voicemail system are directed to enable or turn on a Message Waiting light for the specified calling party.
PreferredG711MillisecondPacketSize	Default: 20	This is the preferred amount of time set for delivering packets. Value for this parameter should never be set below 20, as this will add latency.

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

QUESTION 232

When you are configuring SRST, what does the command ip source-address <ip address>[port<port #>]do?

- A. This command enables the router to receive SIP messages on this particular port.
- B. This command enables the router to receive h323 messages on this particular port.
- C. This command enables the router to receive MGCP messages on this particular port.
- D. This command enables the router to receive skinny messages on this particular port.

Answer: D

QUESTION 233

How does the Cisco IP Phone in a branch office know which device will be running SRST when there is a WAN outage?

- A. Cisco IP Phones need to have the devices IP address in the Cisco CallManager list.
- B. Cisco IP Phones are notified by the device when there is an IP WAN outage which IP address to use.
- C. Cisco IP Phones randomly select a router to fail to, so all routers at the branch site must be running SRST.
- D. Cisco IP Phones use the default gateway IP address in their configuration as the last resort for call processing in an IP WAN outage.

Answer: A

Explanation: Answer A is more appropriate, as the SRST IP address information is registered in Cisco IP Phone's Call Manager list.

QUESTION 234

Which statement is true about the last Cisco voicemail port configured in Cisco CallManager?

- A. The last voicemail port should be forwarded to the first voicemail port.
- B. The last voicemail port should be forwarded to the voicemail application.
- C. The last voicemail port should be forwarded to Auto Attendant or the reception directory number.
- D. The last voicemail port should match the voicemail directory number configured in the service parameters.

Answer: C

QUESTION 235

Which two methods can be used to route calls in a Cisco WebAttendant hunt group? (Choose two)

- A. Longest idle hunt group member.
- B. Shortest idle hunt group member.
- C. First available hunt group member.
- D. Last available hunt group member.

Answer: A, C

QUESTION 236

Which Cisco Voice Gateway is able to support H.323 and MGCP at the same time?

- A. Cisco 2600
- B. Cisco AS5300
- C. Cisco Catalyst 6000
- D. Cisco Catalyst 4000

Answer: A

QUESTION 237

What is the maximum number of device units supported by an MCS-7825-800 with a Pentium III 800 MHz and 512 RAM?

- A. 1000
- B. 1500
- C. 2000
- D. 2500
- E. 5000

Answer: C

QUESTION 238

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 239

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# c

Note: B could also be correct

QUESTION 240

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 internet network 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.

NoteCiscoCallManager 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. CiscoCallManager sends the MCID indication to the user, generates the alarm, and updates the CDR. However, CiscoCallManager 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 241

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

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

Answer: C

QUESTION 242

What is the first step to take when changing softkey locations on a standard softkey template?

- A. Select the softkey to move and use the arrows to slide its position higher or lower.
- B. Copy the desired softkey template to change.
- C. Click to Add Application and move the softkeys from the Add Applications screen.
- D. Select the softkeys to display in the template.

Answer: B

QUESTION 243

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 244

Which feature requires users to be added to Cisco CallManager?

- A. XML application use
- B. softkey use
- C. transfer to voice mail
- D. extension mobility

Answer: D

QUESTION 245

How does Cisco CallManager change the phone line and button layout for each user when Extension Mobility is used?

- A. changing device pools
- B. changing device locale
- C. changing device profile
- D. changing device firmware

Answer: C

QUESTION 246

A user wishes to add speed dials. Which step is required to accomplish this?

- A. Add the user to Cisco CallManager
- B. Check the "CTI Application Use" box.
- C. Create a SpeedDial softkey template.
- D. Validate the speed dial entries.

Answer: A

QUESTION 247

What must happen in Cisco CallManager for a user to add speed dials to a phone?

- A. CTI access must be granted.
- B. The user must be added to Cisco CallManager.
- C. The administrator must check Speed Dial in the user's profile.
- D. A speed Dial softkey template must be created.

Answer: B

QUESTION 248

The IPMA filter of a manager has been set to Exclusive and the following numbers entered in the manager's list:

456-1294

589-0923

773-0900

884

927

A call comes in with caller ID 927-8921.

Where will the call go first?

- A. to the manager
- B. to the manager's designated assistant
- C. to voice mail
- D. to the main receptionist

Answer: A

B is here incorrect because 927 is not a match for 927-8921. If the filter was 927* or 927xxxx, then it would be a match and since the filter is "exclusive" the call would be passed to the assistant. As it is presented (927), the correct answer would be "to the manager".

How to Create Filter Lists for a Manager

Filter lists allow managers or assistants to customize the manager's call filtering feature.

By default, filter lists are empty. Add numbers to a filter list to customize it. Choose a filter mode to toggle between Inclusive or Exclusive filter lists:

inclusive-Calls that match the numbers in the Inclusive filter list are sent to manager; the remainder are redirected to the active assistant.

Exclusive-Calls that match the numbers in the Exclusive filter list are redirected to the

assistant; the remainder are sent to the manager.

Cisco IPMA compares the caller ID of the incoming call to the phone number(s) in the active filter list.

For example, if you choose if you add the phone number 54321 to a manager's Inclusive filter list, every incoming call placed to the manager's office phone from 54321 will be routed to the manager (not to the assistant) if Inclusive filtering is on.

Or, if you add the number 54xxx to a manager's Exclusive filter list, every incoming call from a phone line with a five digit number that begins with 54 will be routed to the assistant (and not to the manager) if Exclusive filtering is on.

Note Only one filter mode (Inclusive or Exclusive) can be active at any given time.

Managers can toggle between filter modes from the Cisco IPMA menu on their phones.

Assistants can toggle between filter modes for a manager from the Assistant Console.

Filter lists can include the following wildcards:

x-Use x to replace a single digit anywhere in the filter. For example, "123x5" represents five-digit phone numbers, where the fourth digit is 0 - 9. You can use an upper-case or lower-case x.

*-Use * to replace multiple digits at the beginning or end of the filter. For example,

"5*" represents phone numbers of any length that begin with 5.

Besides wildcards, filter lists can contain hyphens (-), periods (.), and blank spaces.

Tip Filter lists can be empty. By initial default, the filter is enabled and the Inclusive filter list is empty. This means that all of a manager's incoming calls are redirected to the assistant.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps5015/products_user_guide_chapter09186a008012b

QUESTION 249

Which steps must an IP phone user take to activate a prepared stock quote XML application?

- A. Using a PC, log in to the user URL and select the application for use.
- B. Request that the administrator add the directory number to an application list.
- C. Select the "Services" softkey and choose the stock option application.
- D. Initiate an application tftp request.

Answer: C

QUESTION 250

How are music-on-hold files designated for use?

- A. They are dropped into individually numbered directories.
- B. They are assigned a Cisco CallManager audio source number.
- C. They are streamed end-to-end in filename order.
- D. They are given stream-specific filenames.

Answer: B

QUESTION 251

What are three steps required to ensure that audio source MOH_Premium is only streamed to callers placed on hold by the Premium Sales Group? Select three.

- A. Assign MOH_Premium to Media Resources Group MRG_Premium.
- B. Assign MOH_Premium to Media Resources Group LIST MRG_Premium.
- C. Assign MRG_Premium to Media Resources Group LIST MRGL_Premium.
- D. Assign MRGL_Premium to Media Resources Group MRG_Premium.
- E. Assign MOH_Premium to Device Pool Premium_Sales.
- F. Assign MRGL_Premium to Device Pool Premium_Sales.

Answer: A, C, F

QUESTION 252

How does a Cisco CallManager know that there are audio source files to be translated for music-on-hold?

- A. A check box is selected in the Cisco CallManager admin pages each time there is a file to be processed.
- B. Files are dropped into a directory maintained and checked automatically by Cisco CallManager.
- C. A special application is run by the administrator whenever files are added.
- D. The administrator uses TFTP to transfer the files to a special server.

Answer: B

QUESTION 253

Certkiller .com has a hardware conference bridge and a software conference bridge. Remote devices should only be allowed to use the hardware conference bridge, while devices at the main site should be able to use the software conference bridge if the hardware conference bridge is unavailable. All devices should be able to access the existing transcoders and MTPs.

What is the minimum number of MRGs that you must create?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

QUESTION 254

Which two conditions must be met for a device to use a media resource that is not assigned to a media resource group? (Choose two.)

- A. A MRGL cannot be assigned to the device.
- B. The media resource and the device must be registered to the same Cisco CallManager server.
- C. An available media resource cannot be in the MRGL of the device.
- D. The device CSS must include the partition of the media resource.
- E. The media resource CSS must include the partition of the device.

Answer: B,C

QUESTION 255

An auto parts retailer would like their service counter representatives to assist both walk-up customers and telephone customers. Each store has six service counter representatives. Walk-up customers frequently engage all the counter representatives and management is concerned that telephone customer business is being lost.

From the list below, choose the appropriate call distribution algorithm and the appropriate call forwarding treatment which will allow each store to provide the best customer service. (Choose two.)

- A. When hunting is exhausted, apply CFB and CFNA to the DN for the warehouse order puller.
- B. There is no need to configure CFB or CFNA; when hunting is exhausted, the call will automatically be routed to the warehouse order puller.
- C. Top Down
- D. Circular
- E. Longest Idle Time
- F. Broadcast

Answer: A,F

QUESTION 256

When a phone needs a conference resource, which of the following Cisco CallManager objects is queried first?

- A. media resource device list
- B. media resource pool
- C. media resource group list
- D. media resource group

Answer: C

QUESTION 257

An auto parts retailer would like their service counter representatives to be able to assist both walk-up customers and telephone customers. Each store has six service counter representatives.

Which call distribution algorithm will allow each service counter representative to

provide the best customer service?

- A. Top Down
- B. Circular
- C. Longest Idle Time
- D. Broadcast

Answer: D

QUESTION 258

Which of these options will prevent a device from being able to initiate conferences?

- A. Exclude the conference media resource partitions from the CSS.
- B. Exclude the conference media resources from all MRGs.
- C. Place all conference media resources in MRGs and exclude these MRGs from the MRGL.
- D. Remove the default MRGL from the device pool.

Answer: C

QUESTION 259

Which two steps must a user take to use a prepared stock quote XML application on an IP Phone? (Choose two.)

- A. Select the Services button and choose the stock option application.
- B. Use the Settings button to activate the application on the Phone.
- C. Initiate an application TFTP request.
- D. Dial the directory number for the service.
- E. Either the Cisco CallManager administrator or the user needs to subscribe the Phone to the service through the User Options web page.
- F. Request that the administrator add their directory number to the application list.

Answer: A,E

QUESTION 260

A new Cisco Unified CallManager Administrator has joined the team at the Bill George Farmers Co-op. The administrator has been checking softkey templates in Cisco Unified CallManager administration and wants to know why some templates have check marks in the left column, while others do not. What is the accurate response to the query?

- A. The templates with check marks are read-only.
- B. The templates without check marks cannot be used.
- C. The templates without check marks are not complete.
- D. The templates without check marks can be copied but not modified.
- E. The templates with check marks can be renamed.

Answer: E

QUESTION 261

Exhibit:



Refer to the exhibit. An employee of the Charles Lee Resume Writers Guild sees this message while configuring IP Phone Speed Dial buttons. What best describes the action that precedes this message?

- A. The assigned user is updating the speed dials of a phone device that has extension mobility enabled.
- B. A server administrator is changing the speed dial buttons for any user.
- C. A server administrator is changing the speed dial buttons for users with extension mobility.
- D. The assigned user is updating the speed dials of a phone device.

Answer: C

QUESTION 262

Which three options can you use to assign a softkey template? (Choose three.)

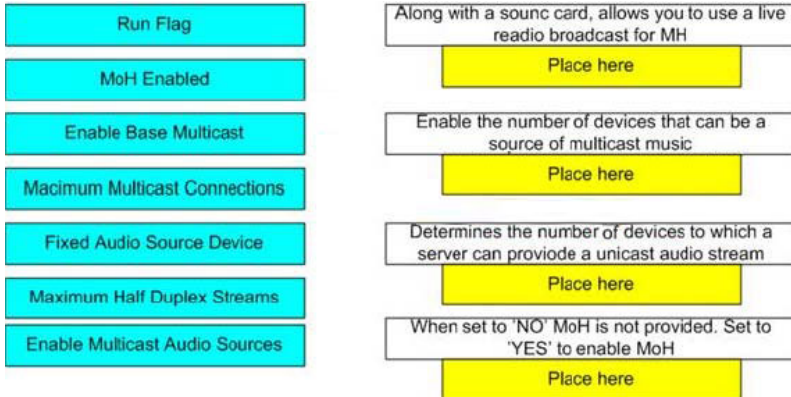
- A. Device > Phone Configuration
- B. System > Device Pool Configuration
- C. Device > Device Settings > Device Profile
- D. System > Device Defaults Configuration
- E. System > Enterprise Parameters
- F. Service > Service Parameters

Answer: A,B,C

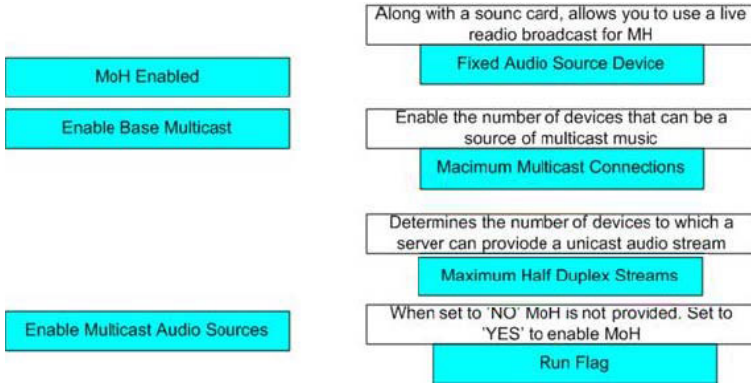
QUESTION 263

DRAG DROP

Drag the MoH parameter on the left to its description. Not all parameters apply.



Answer:



QUESTION 264

The president at the Flora McDonald Costume Factory uses a Cisco 7960 Phone. The last extension is set aside with a private number for the president's personal use. While waiting for an important personal call from Bonnie Charles, the president has to go to the production floor for an emergency. Prior to leaving her office, she uses extension mobility to transfer her extension to a Cisco 7940 Phone on the production floor. However, the call never comes. Later, back in her office, Bonnie calls on the private line and says that she had called earlier but no one had answered. What happened to the call?

- A. The phone on the production floor cannot receive this particular call from a phone configured for 7960 extension mobility.
- B. The president's office phone has incorrect duration limits and she does not have proper login authorization.
- C. Extension mobility is not an available feature with the phone on the production floor.
- D. The telephone on the production floor rang, but the noise on the floor distracted the president and she didn't hear the call.
- E. The phone on the production floor can only be configured by an administrator to have extension mobility capability.

Answer: A

QUESTION 265

A company using Cisco CallManager is considering using hotelling in a new facility. The company also wants to use standard Cisco IP phones. Which Cisco CallManager option will give the company that capability?

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

Answer: D

QUESTION 266

Chew Stone Masonry uses Cisco Unified CallManager and is considering implementing hot CertKiller at their new quarry office. They also plan to use standard Cisco IP phones. Which Cisco Unified CallManager option will allow this capability?

- A. IPMA
- B. IPIVR on the Cisco Unified CallManager Publisher
- C. soft phone
- D. IPIVR on the Cisco Unified CallManager Primary Server
- E. extension mobility
- F. CRS

Answer: E

QUESTION 267

Which option most closely describes how Barge functions?

- A. A supervisor listens in on a call on the same WAN or LAN with or without notification.
- B. A supervisor takes over a call with or without notification and terminates the party that is on the same network.
- C. A supervisor conferences in on a call on the same WAN or LAN with or without notification.
- D. A supervisor listens in on a call without notification and terminates the party that is on the same network.

Answer: C

QUESTION 268

An MRGL is used to control access to which three of these resources? (Choose three.)

- A. MTP

- B. softkey templates
- C. CTI applications
- D. annunciator
- E. Cisco IP Phone Services
- F. MoH

Answer: A,D,F

QUESTION 269

What two requirements will allow the Harvie Highlander Mountain Resort to provide MOH services for their customers? (Choose two.)

- A. MOH Streaming Media Server
- B. Activation of IP Voice Media Streaming Application
- C. E&M Interface for audio source
- D. Activation and configuration of IP MOH Application on the publisher
- E. MOH Server

Answer: B,E

QUESTION 270

Which of the following allows Cisco to provide the user with a scalable IP-based audio conferencing solution that is fully integrated with Cisco CallManager resulting in bringing geographically dispersed people together into a single conference?

- A. Cisco Conference Connection
- B. Cisco Emergency Responder
- C. Cisco Customer Response Application
- D. Cisco IP Contact Centre
- E. Cisco Unity

Answer: A

QUESTION 271

Is the following true or false? One can restrict media resources that are made available to an IP Phone, by assigning to the IP Phone a Media Resource Group List that has not been assigned any Media Resource Groups.

- A. False
- B. True

Answer: B

QUESTION 272

EnterpriseParameters are configured through the permission of which of the

following CallManager Administration menus?

- A. Route Plan
- B. Service
- C. System
- D. Feature
- E. User
- F. Application

Answer: C

QUESTION 273

What are the differences between Call Pickup and Group Call Pickup?

- A. Call Pickup permits the pickup of incoming calls within their own group, while Group Call Pickup allows users to pick up incoming calls within their own group as well as any other group.
- B. Group Call Pickup permits the pickup of incoming calls within their own group, while Call Pickup allows users to pick up incoming calls within their own group or any other group.
- C. Call Pickup permits the pickup of incoming calls within their own group, while Group Call Pickup allows users to place a call on hold so it can be retrieved from another phone in the system.

Answer: A

Understanding Call Pickup and Group Call Pickup

CiscoIP phones provide two call pickup types:

1. Call pickup-Allows users to pick up incoming calls within their own group. CiscoCallManager automatically dials the appropriate call pickup group number when a user activates this feature from a CiscoIPphone.
2. Group callpickup-Allows users to pick up incoming calls within their own group or in other groups. Users must dial the appropriate call pickup group number when activating this feature from a CiscoIPphone.

The same procedures apply for configuring both of these features. Group call pickup numbers apply to lines or directory numbers.

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

QUESTION 274

Which of the following statements is valid regarding Media Resource Management?

- A. Media Resource Management permits the sharing of media resources of all Cisco CallManagers within the cluster.
- B. Media resources are exclusively accessible on the local Cisco CallManager with which the media resources are registered but not available to all Cisco CallManagers within the cluster.
- C. A Cisco CallManager component called Media Resource Management locates and

assigns resources throughout a cluster.

D. Media Resource Management resides on every Cisco CallManager and communicates with MRMs on other Cisco CallManagers.

E. Media Resource Management resides on a single Cisco CallManager and communicates with other Cisco CallManagers.

Answer: A, C, D

QUESTION 275

The configuration of Cisco IP Phone Services is permitted by which CallManager Administration menu?

A. System

B. Route Plan

C. Service

D. Feature

E. Use

F. Application

Answer: D

QUESTION 276

Which of the following statements regarding Phone Button Templates are valid?

A. Phone Button Templates permits the re-assignment of buttons to suit the users' environment.

B. Phone Button Templates must be based on an existing template.

C. The Phone Button Template menu is found under "Devices > Phone Button Template"

D. IP Phones should have at least one Speed Dial Button defined.

E. IP Phones should have at least one Line Button defined.

F. The Phone Button Template menu is found under "Devices > Phone > Button Template"

Answer: A, B, E

Phone Button Template Configuration

Cisco CallManager includes several default phone button templates. When adding phones, you can assign one of these templates to the phones or create a new template.

Creating and using templates provides a fast way to assign a common button configuration to a large number of phones. For example, if users in Certkiller .com do not use the conference feature, you can create a template that reassigns this button to a different feature, such as speed dial.

Make sure all phones have at least one line assigned. Normally, this is button 1. You can assign additional lines to a phone, depending on the Cisco IP phone model. Phones also generally have several features, such as speed dial and call forward, assigned to the remaining buttons.

Step 1 Choose Device > Phone Button Template.

Step 2 Choose a template and click Copy to create a new template.

The new template exactly duplicates the existing template and automatically assigns it a new name. You must update this new template if you want it to differ from the original.

Step 3 Update the appropriate settings.

Step 4 Click Insert to add the new template.

Step 5 Click View Button Layout to verify the button layout.

Not C: The Phone Button Template menu is found under Device > Device Settings

QUESTION 277

Which of the following are the default Soft key Templates? (Choose all that apply.)

- A. Standard user
- B. Standard subscriber
- C. Standard IPMA Manager
- D. Standard IP Manager Assistant
- E. All of the above

Answer: A, C

Explanation:

Softkey Templates

Use softkey templates to manage softkeys that are associated with applications such as Cisco IPMA or call-processing features such as Cisco Call Back on the Cisco IP Phones.

The administrator uses the Softkey Template Configuration windows in Cisco CallManager Administration to create and update softkey templates.

Cisco CallManager supports two types of softkey templates: standard and nonstandard.

Standard softkey templates in the Cisco CallManager database contain the recommended selection and positioning of the softkeys for an application. Cisco CallManager provides the following standard softkey templates:

Standard user

Standard Feature

Standard IPMA Assistant

Standard IPMA Manager

Standard IPMA Shared Mode Manager

D is not the answer. Standard IPMA Assistant is another default Softkey Template, but not Standard IP Manager Assistant.

QUESTION 278

Which of the following statements best describes the relationship between Media Resource Groups (MRGs) and Media Resource Group Lists (MRGLs)?

- A. Media resources are placed in MRGLs, and MRGLs are prioritized in MRGs.
- B. MRGs are assigned to media resources, and MRGLs are assigned to specific devices.
- C. Media resources are placed in MRGs, and MRGs are prioritized in MRGLs.
- D. MRGs are assigned to specific devices, and MRGLs are assigned to media resources.
- E. None of the above.

Answer: C

QUESTION 279

To what does an Automated Attendant pilot, which is a directory number, point to?

- A. Voice mail
- B. A specific device
- C. A hunt group
- D. A specific shared line

Answer: C

QUESTION 280

What are the formats in which IP Voice Media Streaming Application can stream Music on Hold? (Choose all that apply.)

- A. G.711
- B. Wideband
- C. G.723
- D. G.729
- E. All of the above.

Answer: A, B, D

The music on hold server also supports one fixed input source. The system supports the following codecs:

G.711a-law/mu-law, G.729a, and wideband.

*page 4-17, Cisco CallManager Features and Services Guide

QUESTION 281

Which button should users press to see the weather advisories on their phones if weather advisories have been made available to subscribers?

- A. applet
- B. services
- C. advisory
- D. directory

Answer: B

QUESTION 282

The newly appointed Certkiller trainee technician wants to know which CCM feature permits users to answer incoming calls that are directed to a directory number other than their own. What will your reply be?

- A. Call Answer

- B. Group Pickup
- C. Call Pickup
- D. Group Answer

Answer: C

QUESTION 283

Why might a user find it necessary to log on to the CCM server?

- A. To activate the directory path.
- B. To check the activity of the phone directory.
- C. To activate the phone extension.
- D. To customize the phone options.
- E. To indicate presence at the phone.

Answer: D

Users do not have to activate phones, however they can logon to CCMUser on the Call Manager & customize their phone settings.

QUESTION 284

The newly appointed Certkiller trainee technician wants to know what the default Message Waiting Lamp system policy is. What will your reply be?

- A. Never light
- B. Always light
- C. Use System Policy
- D. Use Group Policy
- E. All of the above

Answer: C

QUESTION 285

What would you advice the Certkiller trainee technician to do first when attempting to enable Portuguese menus and buttons on their phones when located in Brazil?

- A. Download the Portuguese locale files from the Cisco website.
- B. Create the directory stub \Port\Brazil on the CCM server in the Java directory tree.
- C. Download the International locale files from the Cisco website.
- D. Unpack the International locale files included on the distribution CD-ROM.

Answer: B

QUESTION 286

The newly appointed Certkiller trainee technician wants to know what a phone must support to enable the use of extension mobility. What will your reply be?

- A. xml
- B. html
- C. cti
- D. perl
- E. java

Answer: A

Cisco CallManager Extension Mobility (an XML-based authentication feature) is comprised of the Cisco CallManager Extension Mobility application and the Cisco CallManager Extension Mobility service.

*page 1-2, Cisco CallManager Features and Services Guide

QUESTION 287

Which of the following web pages can be used to configure fast dial?

- A. Web Services
- B. Directory Services
- C. Administrator Services
- D. Personal Directory
- E. All of the above

Answer: D

There is no Administrator Services web page. Fast Dial is configured as part of a user's Personal Directory.

QUESTION 288

Why is adding users to the CCM directory important?

- A. Different tool rates can be assessed if you add the users to the directory.
- B. Better routing decisions can be made if you add the user to the directory.
- C. The phone is not usable unless users are added and associated with a phone.
- D. The users will not be able to use directory services until they are added to the directory.

Answer: A

The correct answer is definitely not C, it is probably A.

Phones do not have to be associated with users. Phones in Call Manager can very well not be associated with any users. Anyone who thinks C is the correct answer has never worked with Call Manager.

QUESTION 289

You are a CCM administrator at Certkiller . You want to configure the maximum bandwidth allowed for voice calls.

Where can you do this?

- A. CCM and Gatekeeper
- B. VG200 and Gatekeeper
- C. CCM and H.323 gateway
- D. Intercluster trunk gateway

Answer: A

Bandwidth is controlled with Locations in CCM & with H.323 Gatekeepers, not H.323 Gateways.

QUESTION 290

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the requirement for implementing Call Park in a CCM cluster is.

What will your reply be?

- A. Each IP phone must subscribe to the Call Park service.
- B. Each CCM must have a unique Call Park number/range.
- C. A PSTN gateway must be selected to act as the endpoint for Call Park.
- D. An access password must be configured for the Call Park number/bridge.

Answer: B

QUESTION 291

You are a CCM administrator at Certkiller . You want to add a service to a Certkiller user's phone.

Which CCM Administration page should you use?

- A. User Profile
- B. User Information
- C. Phone Configuration
- D. Directory Number Configuration
- E. Cisco IP Phone Services Configuration

Answer: C

Phone services are subscribed to in the Phone configuration page, not the User configurationpage. Services are associated with phones, not users.

QUESTION 292

You are a network administrator at Certkiller . Every help desk employee's phone at Certkiller has a single 800 number on line 3. Your newly appointed Certkiller trainee wants to know what this is called.

What will your reply be?

- A. Multiple line instance
- B. Shared line appearance
- C. Shared extension instance

D. Shared instance appearance

Answer: B

QUESTION 293

You are a CCM administrator at Certkiller . You want Certkiller users to be able to use the extension mobility feature.
What do you need to configure?

- A. User Profiles
- B. The CTI Port
- C. Device Profiles
- D. The CTI Route Point

Answer: C

Device Profiles are created for EM, not User Profiles.)

QUESTION 294

Which of the following are the default Softkey Templates? (Choose two.)

- A. Standard User
- B. Standard Subscriber
- C. Standard IPMA Manager
- D. Standard IPMA Manager Assistant

Answer: A, C

QUESTION 295

In what format is a .csv file?

- A. Database
- B. Rich text
- C. ASCII text
- D. Word document
- E. Excel spreadsheet

Answer: C

QUESTION 296

What is a pilot point with the Cisco Attendant Console?

- A. It is a CTI route point with associated users.
- B. It is a CTI route point with associated CTI ports.
- C. It is a CTI route point that directs calls to voice mail.
- D. It is a CTI route point with an associated hunt group.

Answer: D

QUESTION 297

What is the default behavior when media resources are registered in a CCM cluster?

- A. Media resources are immediately available to devices when placed into a Media Resource Group.
- B. Media resources are unavailable to devices until they are placed into a Media Resource Group and assigned to a device.
- C. Media resources are available to devices even when they are not placed into a Media Resource Group and assigned to a device.
- D. Media resources are available to devices only when first placed in a Media Resource Group and then a Media Resource Group List, which is then assigned to a device.

Answer: C

CCM provides a default list of media resources. The default list of media resources includes all of the media resources that have not been assigned to an MRG. If media resources have been configured but no MRGs have been defined, all media resources are on the default list, and all media resources are available to all CCMs within a given cluster.

Page 323 - CIPT Student Guide 3.3

QUESTION 298

If a user is going to be using Auto Attendant, what box must be checked in their setup?

- A. Enable IVR Application Use.
- B. Enable CTI Application Use
- C. Enable ICM Application Use
- D. Enable JTAPI Application Use

Answer: B

QUESTION 299

An Italian company has a phone support desk that staffs English, Spanish, German and Russian in addition to Italian.

What duties will the CCM administrator be most likely to perform? (Choose two)

- A. Setting the systemwide locale to Italiano.
- B. Entering the proper locale for each user.
- C. Providing custom logins for the non-Italian users.
- D. Downloading the Italiano, Russki, Espanol, and Deutsch locale files.

Answer: A, D

Page 390/391 - CIPT Student Guide 3.3

QUESTION 300

In order to use fast dial, which four steps must users take? (Choose four)

- A. Install jtapi applet.
- B. Press the Services button.
- C. Configure the Address Book applet.
- D. Add their names to the LDAP directory.
- E. Subscribe to the fast dial service on the CCM.
- F. Add their names to the personal address book.
- G. Subscribe to the personal address book service on the CCM.

Answer: B, E, F, G

Page 387/388 - CIPT Student Guide 3.3

QUESTION 301

The calling search space was changed for a phone with extension x4827. That phone used a shared line.

What must be done to make that change to all the other devices that use that shared line?

- A. You cannot change a calling search space on a device with a shared line.
- B. All devices using that shared line must have their calling search space changed.
- C. All devices using that shared line must be disconnected from the network and reattached to register the changes.
- D. Nothing needs to be done because a calling search space device change on one device rolls forward to a devices using that shared line.

Answer: D

Page 368 - CIPT Student Guide 3.3

If you change the Calling Search Space, Call Waiting, or Call Forward and Pickup settings on any device that uses the shared line, the changes are applied to all of the devices that use the shared line.

QUESTION 302

Which URL should CallManager users access to subscribe to an IP phone service if the DNS name of the CallManager is cmname.domain.com?

- A. <http://cmname.domain.com/CCMUser>
- B. <http://cmname.domain.com/Cisco/CMUser>
- C. <http://cmname.domain.com/CMUser/logon.asp>
- D. <http://cmname.domain.com/CMUser/serviceconfig.asp>

Answer: A

QUESTION 303

Which two applications are required for using extension mobility? (Choose two)

- A. CRS
- B. CCM
- C. Cisco Unity
- D. Personal Assistant

Answer: A, B

Page 440 - CIPT Student Guide 3.3

To use Extension Mobility feature, you must configure two applications, CRS and CCM.

QUESTION 304

A commodities has provided a service tracking apple peel prices directly to the phones.

What must users do to access this service?

- A. Activate the jtapi ApplePeel interface.
- B. Download the ApplePeel XML applet to the phone.
- C. Program their phone to point to the ApplePeel server.
- D. Subscribe to the ApplePeel service on the CCM server.

Answer: D

Page 370/371 - CIPT Student Guide 3.3

QUESTION 305

What do users do in order to log on and change phone options?

- A. Activate a small XML script at the phone.
- B. Press a button on the phone then respond with a pin.
- C. Point their browser to a URL on the CCM server and log in.
- D. Submit their requests to the CCM server admin via a scripted e-mail.

Answer: C

QUESTION 306

What IP phone Softkey would a user press to pick up a call that is coming into a directory number that is assigned to a group call pickup?

- A. PickUP
- B. GPickUp
- C. CallPickup
- D. PkupGroup

Answer: B

Note: "Softkey" key word & "group call pickup" keyword; then you can easily select the Answer B as the correct one.

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QUESTION 307

Media resources are configured to devices by assigning a media resource _____.

- A. group to devices
- B. group list to devices
- C. group to the CCM server the device is registered to
- D. group list to the CCM server the device is registered to

Answer: B

Note: Media Resource Group List (MRGL) assigned to devices.

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QUESTION 308

How do you configure media resources for a device?

- A. Configure a device in a media resource group, then take that media resource group and add it to a media resource group list.
- B. Configure a media resource group list, then from that list build a media resource group, and then make the device part of the media resource group.
- C. Configure media resources in a media resource group list, then add that media resource group list to a media resource group, then assign that media resource group to a device or devices.
- D. Configure media resources in a media resource group, then add that media resource group to a media resource group list, then assign that media resource group list to a device or devices.

Answer: D

QUESTION 309

What are the two levels of MRGL selection and the priority associated with each level? (Choose two)

- A. Level two MRGL; the lower priority one configured at the device level.
- B. Level one MRGL; the lower priority one configured at the device level.
- C. Level two MRGL; the higher priority one configured at the device level.
- D. Level one MRGL; the higher priority one configured at the device level.
- E. Level two MRGL; the lower priority one configured at the device pool level.
- F. Level one MRGL; the lower priority one configured at the device pool level.
- G. Level two MRGL; the higher priority one configured at the device pool level.
- H. Level one MRGL; the higher priority one configured at the device pool level.

Answer: D, E

Configure Media Resource Groups/Media Resource Group Lists

MRGs are logical groupings of media resources. A single MRG can contain hardware conference resources, software conference resources, transcoder resources, MOH servers, and software Media Termination Points. An MRG has no user-defined order. All resources in an MRG are considered equal. Therefore, Cisco CallManager loads share between resources of each type in one MRG.

MRGLs are an ordered list of MRGs. All resources in one MRG must be exhausted before Cisco CallManager attempts to use a media resource from another MRG in the same MRGL.

MRGLs can be associated on a per-device basis, which mean that you can give specific devices access to media resources on an individual basis. A second MRGL can also be configured at the device pool level.

o If a device has an MRGL configured at the device pool level as well as on the device itself, the MRGL configured at the Device Level is searched first, followed by the MRGL on the device pool.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_tech_note09186a008020f198.shtml

QUESTION 310

When configuring the Cisco Messaging Interface, what should you check if you are having a problem with the Message Waiting indicators on the phones?

- A. MwiPartition
- B. MwiSearchSpace
- C. VoicemailPartition
- D. VoicemailSearchSpace

Answer: B

QUESTION 311

When an IP Phone user places a PSTN caller on hold, which Music on Hold source will the PSTN caller hear?

- A. User Hold
- B. PSTN Hold
- C. Network Hold
- D. Gateway Hold

Answer: A

User Hold occurs anytime a user puts a call on hold whether the call is from the PSTN or an internal phone. Network Hold is initiated by the Call Manager during Call Transfers, Call Park, Conference Setup, Application Hold (i.e. ICD or AA hole).

(There are two basic types of user hold:

User on hold at an IP phone or other endpoint device

User on hold at the PSTN, where MoH is streamed to the gateway

Network hold includes the following types:

Call Transfer

Call Park
Conference setup
Application-based hold
Page 5-5,6 , Cisco Music On Hold)

QUESTION 312

What is configured in Cisco CallManager for a user to be able to use Cisco IP SoftPhone in first party control?

- A. CTI Port
- B. Cisco IP Phone
- C. CTI Route Point
- D. Cisco IP SoftPhone

Answer: A

Cisco CallManager System Guide, Release 3.1(1)

Computer Telephony Integration

CTI Controlled Devices

The following three types of CTI control devices exist:

Cisco IP phones

CTI ports

CTI route points

CTI-controlled Cisco IP phones comprise regular phones that a CTI application can control.

CTI ports as virtual devices can have one or more virtual lines, and software-based Cisco CallManager applications such as Cisco SoftPhone, Cisco AutoAttendant, and Cisco IP Interactive Voice Response (IVR) use them. You configure CTI ports through the same Cisco CallManager Administration area as phones. For first-party call control, you must add a CTI port for each active voice line.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_administration_guide_chapter09186

a

QUESTION 313

A company is deploying Cisco IP Telephony at its headquarters to support 5000 users. It will have a four server cluster; stand-alone publisher, two Primary Cisco CallManagers and a backup Cisco CallManager. Music on Hold is configured on the primary CallManagers for a simplex stream (unicast) environment. The company wants to provide music on hold to all users.

Given the configuration described, how many concurrent users can Music on Hold support?

- A. 500
- B. 1000
- C. 2000
- D. 3000
- E. 5000

Answer: A

QUESTION 314

When troubleshooting a problem with Music on Hold, which SDI trace is used to examine the problem?

- A. CTI
- B. CMI
- C. CCM
- D. CMS

Answer: D

QUESTION 315

If a PC connected to an IP Phone is having trouble obtaining an IP address, which setting on the phone might help to resolve the problem?

- A. Admin VLAN
- B. Spanning Tree
- C. Default Gateway
- D. Forwarding Delay

Answer: D

QUESTION 316

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 317

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 318

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 319

According to Cisco, what is the primary advantage of the SAFE security model?

- A. Applications deployed under SAFE function well together.
- B. A failure of one part is generally covered by another layer.
- C. SAFE eliminates the possibility of security breaches.
- D. Upgrades are simpler.

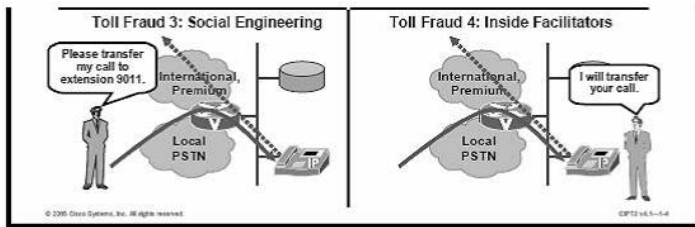
Answer: B

QUESTION 320

A receptionist is unwittingly used to pass a toll fraud attempt to a toll line. What is called?

- A. social engineering
- B. inside facilitation
- C. forwarding fraud
- D. transferring fraud

Answer: B



There figure shows different types of toll fraud.

- **Call Forward All (CFA):** The first example describes a scenario where an employee forwards his or her office number to, for example, an international or mobile number. This employee then tells friends to call the office number. The call is forwarded to the number that the employee specified, making the company pay the costs of the calls.
- **Transfer from voice mail:** The second toll fraud example shows an attacker making an external call to the voice-mail system, which forwards the call to an international premium destination. The attacker is billed only for a local call, while the company, from which the call is forwarded, pays for the international call.
- **Social engineering:** The third example shows a scenario where an attacker calls from outside the company and uses social engineering tricks (for instance, pretending to be an employee working from home) to be transferred to an external number, such as 9011. The 9011 prefix is used in the United States to place international calls. This attacker is also charged only for a local call, while the company again pays for the connection to an international telephone number.
- **Inside facilitators:** The fourth example is very similar to the third one. But in this case, an employee inside the company transfers the external call to another external number. In this case the toll fraud has an internal source.

QUESTION 321

It is feared that competitors are listening in an IP phone conversations in the research and development.

What can be done to thwart this?

- A. Implement intrusion detection.
- B. Secure all access ports.
- C. Implement secure RTP.
- D. Require passwords on all phones.

Answer: C

QUESTION 322

A group of Cisco CallManager servers needs to be secured from viruses that may propagate over the network. Which of the steps below will be the most help?

- A. Stop using Internet Explorer on Cisco CallManagers servers.
- B. Apply operating system patches regularly and often.
- C. Close down all server ports but port 80.
- D. Shut down FTP services on all servers.

Answer: B

QUESTION 323

What solution will effectively address the concern that software for IP phones might

be hacked?

- A. the implementation of approved anti-virus software
- B. the regular and frequent application of operating system patches
- C. the deployment of a well-configured firewall
- D. a signed firmware loads requirement
- E. a requirement that password logins be used for phone usage
- F. the deployment of secure RTP

Answer: D

QUESTION 324

What does secure RTP authentication provide?

- A. scrambling of the voice signal
- B. verification of the voice signal origin
- C. scrambling of the call signaling
- D. verification of the dialed digits

Answer: B

QUESTION 325

Which two steps should be taken to prevent malicious software from running on Cisco CallManager servers? Select two.

- A. Implement approved anti-virus software
- B. Apply operating system patches regularly.
- C. Deploy a well-configured firewall.
- D. Require a signed firmware loads.
- E. Require password logins for phone usage.
- F. Deploy secure RTP.

Answer: A, B

QUESTION 326

An attacker calls Certkiller .com from outside, pretending to be an employee working from home, and asks to be transferred to an external number. Which type of toll fraud is this?

- A. Call Forward All
- B. transfer from voice mail
- C. social engineering
- D. inside facilitator

Answer: C

QUESTION 327

Which two of these statements are true once MLA has been enabled on a Cisco CallManager server? (Choose two.)

- A. Both the administrator accounts and the MLA accounts are active.
- B. The CCMAAdministrator is the only user that can log in the first time after installation.
- C. The Windows NT administrator account has no access rights to Cisco CallManager administration anymore.
- D. Only the Windows domain username and password are active until MLA has been authenticated to Cisco CallManager.
- E. The LDAP directory username and password remain active after MLA has been configured.

Answer: B,C

QUESTION 328

There are many settings that a Windows administrator might make to secure a server. Which of these options should not be set, because, if set, they would cause the Cisco CallManager server to fail to automatically reboot?

- A. Setting a CMOS power-on password
- B. Deleting, disabling, or renaming Cisco CallManager or SQL-created accounts
- C. Changing the security permissions for any Windows 2000 or Cisco installed folder, files, or registry keys, other than what is set by Cisco installs
- D. Changing the setting so that the passwords of the Cisco CallManager service accounts will expire

Answer: A

QUESTION 329

You are working with Certkiller .com to develop the methodology to secure IP Phones at their new research facility. Certkiller .com will be providing IP Phones in their lobby for vendor and guest use. Which two of these IP Phone hardening methods should be applied to these devices? (Choose two.)

- A. Enable GARP.
- B. Disable PC port on phone.
- C. Use signed IP phone firmware.
- D. Disable the Directory button.
- E. Disable the Services button on the IP phone.

Answer: B,C

QUESTION 330

A Cisco CallManager system is a multi-PKI system. How many certificate

authorities may be present in the PKI system?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: B

QUESTION 331

Which two of these services should be disabled during post-installation of Cisco CallManager to prevent potential intruders from finding server vulnerabilities? (Choose two.)

- A. Distributed File System
- B. FTP Publishing Service
- C. SSL Security Service
- D. Forward Publishing Service
- E. SRTPservice
- F. SRCP service

Answer: A,B

QUESTION 332

A group of Cisco CallManager servers needs to be secured from viruses that may propagate over the network. Which of these steps will provide the most security? (Choose two.)

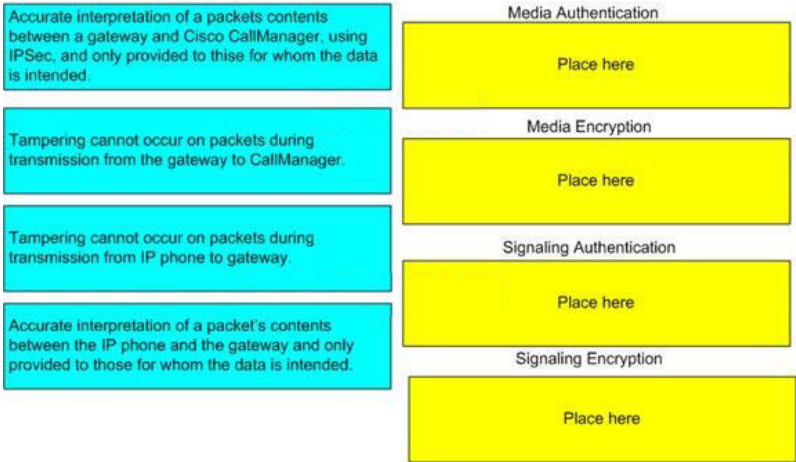
- A. Stop using Internet Explorer on Cisco CallManager servers.
- B. Apply operating system patches regularly and often.
- C. Close down all server ports except port 80.
- D. Shut down FTP services on all servers.
- E. Install approved antivirus software.
- F. Apply latest antivirus updates and virus definition files.

Answer: E,F

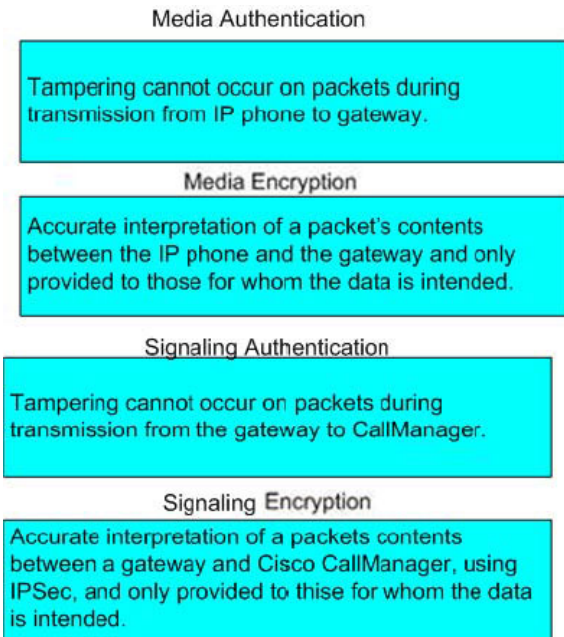
QUESTION 333

DRAG DROP

Drag the characteristic on the left to the Secure RTP service on a Cisco Access Router that it relates to on the right.



Answer:



QUESTION 334

You are contacted by your customer who has deployed a Cisco Unified CallManager cluster. They received an e-mail warning about a critical Microsoft operating system vulnerability that may impact their Cisco Unified CallManager cluster. What should you tell the customer to do about this e-mail warning?

- A. Verify that the latest Microsoft and Cisco operating system patches have been applied to the cluster and then go to both Cisco and Microsoft and download and apply the patches that are specific to the latest vulnerability.
- B. Verify the latest Cisco operating system patches have been applied and use the Cisco Security Agent to download and apply the patches related to the new vulnerability to the cluster.
- C. Verify that the latest Cisco operating system patches have been applied, then wait for the next monthly operating system service release and update the cluster.
- D. Verify that the latest Cisco operating system patches have been applied. Then, wait 24

hours to determine if the warning results in a critical hot fix patch by Cisco and use this patch to update the cluster. Otherwise, wait for the next monthly operating system service release.

Answer: D

QUESTION 335

Exhibit:

%Failed to find Certificate Server's trustpoint at startup % Failed to find Certificate Server's cert.

Refer to the exhibit. This message appears when there is a temporary inability to configure the certificate server. What causes this inability?

- A. The startup configuration has not been saved properly.
- B. The startup configuration has not been fully parsed yet.
- C. The status of the boot procedure has not been verified.
- D. The startup configuration has not been completed.

Answer: B

QUESTION 336

How many Certificate Authorities may be present in the PKI system on a Cisco Unified CallManager cluster?

- A. 6
- B. 9
- C. 1
- D. 3
- E. 4
- F. 7

Answer: D

QUESTION 337

Which two of these options can you use to prevent toll fraud? (Choose two.)

- A. forced authentication codes
- B. IPSec encryption
- C. Call Transfer CSS
- D. MLA
- E. Call Forward CSS

Answer: A,E

QUESTION 338

Which type of certificate is used by Cisco Unified CallManager to authenticate with

supported Cisco IP phones?

- A. Cisco Manufacturing CA
- B. self-signed
- C. external CA
- D. Cisco Unified CallManager CA, Proxy Function, or external CA

Answer: B

QUESTION 339

Is the following true or false? Cisco IP Phones have DHCP enabled by default.

- A. True
- B. False

Answer: A

QUESTION 340

It is possible to a user to forward calls to a long distance number, incurring unapproved charges to the organization. How can this be avoided?

- A. Limit the translation digits in the Call Forward Configuration page.
- B. Attach a special device pool to the Call Forward Configuration page.
- C. Create an appropriate route plan for the Directory Number Configuration page.
- D. Apply an appropriate calling search space to the Directory Number Configuration page.

Answer: D

QUESTION 341

DRAG DROP

As a network technician at Certkiller.com you are required to drag the actions in the correct order in which the Batch Update Tool (BAT) and the Tool for Auto-Registered Phones Support (TAPS) work together to install phones on an IP telephony network.

Select from these

Place here

user or administrator dials TAPS directory number	Place first step here
administrator plugs phones into network	Place second step here
phone updates CallManager with correct MAC address	Place third step here
BAT adds dummy MAC address into Cisco CallManager administration	Place fourth step here
CallManager downloads configuration	Place last step here

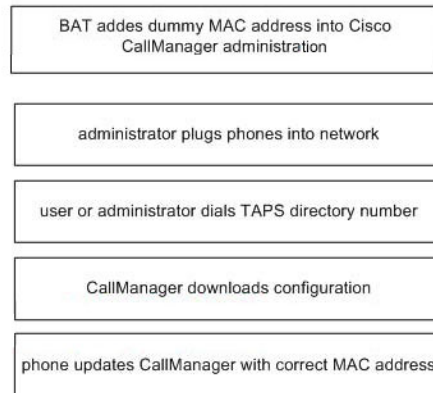
Answer:

642-444

As a network technician at Certkiller.com you are required to drag the actions in the correct order in which the Batch Update Tool (BAT) and the Tool for Auto-Registered Phones Support (TAPS) work together to install phones on an IP telephony network.

Select from these

Place here



Explanation:

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.

Reference:

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_configuration_example09186a00802

QUESTION 342

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 343

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_example09186a00802

QUESTION 344

What are four prerequisites for installing the Tool for Auto-registered Phones Support (TAPS)? Select four.

- A. The publisher database for Cisco CallManager is running.
- B. The Cisco CRS server is configured.
- C. The latest BAT is installed on the publisher database server.
- D. The Windows 2000 Services window is open.
- E. Auto-registration must be enabled in Cisco CallManager Administration.
- F. DHCP disabled.

Answer: A, B, C, E

QUESTION 345

Which three steps must you complete to enable collection of Call Detail Records for analysis by CAR? (Choose three.)

- A. Set the CDR Enabled Flag to True on all Cisco CallManager servers.
- B. Enable the CDR Insert Service on the subscribers.
- C. Enable the CDR Insert Service on the publisher.
- D. Enable the Cisco RIS Data Collector on the subscribers.
- E. Enable the Cisco RIS Data Collector on the publisher.
- F. Install the CAR plug-in.

Answer: A,C,F

QUESTION 346

Which four of these items can you back up using BARS? (Choose four.)

- A. Emergency Responder database
- B. Call Detail Records
- C. ISN database
- D. security certificates
- E. LMHosts file
- F. Cisco CallManager binary files

Answer: A,B,D,E

QUESTION 347

How is a backup target changed to a backup server?

- A. Modify the BARS service parameter from Target to Server.
- B. Uninstall BARS and reinstall as a backup server.
- C. Use BARSadministration to change from Target to Server.
- D. Use BARSadministration to delete the destination target.

Answer: B

QUESTION 348

Which two statements must be true to run the TAPS? (Choose two.)

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

Answer: A,C

QUESTION 349

Which three of these statements must be true when installing the TAPS? (Choose three.)

- A. The latest BAT is installed on the publisher database server.
- B. The Cisco CRS server is configured.
- C. Windows Terminal Services may be used to install TAPS.
- D. The publisher database for Cisco CallManager is running.
- E. DHCP is disabled.
- F. The Windows 2000 Services window is open.

Answer: A,B,D

QUESTION 350

Which four of these items can be obtained from Call Detail Records? (Choose four.)

- A. call duration
- B. quality of service information
- C. circuit utilization
- D. Client Matter Codes
- E. blocked call attempts
- F. malicious call information

Answer: A,B,D,F

QUESTION 351

Which of the following statements regarding BAT is valid? (Choose all that apply.)

- A. BAT is a plug-in application to Cisco CallManager, lets you add, update, or delete a large number of phones, users, Cisco VG200 gateways and ports.
- B. BAT can be accessed from Cisco CallManager Administration and vice versa using the Feature menu.
- C. BAT is a web-based application that operates in an Internet Explorer 4.01 Service Pack 2 or later or Netscape 4.5 or later environment.
- D. BAT can be accessed from Cisco CallManager Administration and vice versa using the Application menu.
- E. The acronym BAT is short for The Bulk Administration Tool
- F. The acronym BAT is short for The Bulk Additions Tool

Answer: A, C, D, E

QUESTION 352

You are a network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know at what must users have when installing the Cisco IP SoftPhone application.

What will your reply be?

- A. A User ID, a password, the MAC address of their PC.
- B. A User ID, a password, and an IP address of the CCM.
- C. A User ID, a password, and the IP address of the phone.
- D. A User ID, a password, and the MAC address of the phone.

Answer: B

QUESTION 353

You are a CCM administrator at Certkiller . You want to add a new phone to the CCM database.

How would you accomplish this? (Choose two)

- A. Use auto registration.
- B. Import the phones using BAT.
- C. Import the phones using CDR add.
- D. Add a row via SQL Query Analyzer.

Answer: A, B

QUESTION 354

You are a CCM administrator at Certkiller . You want to import users into the CCM database using the BAT tool.

Which file type can you use?

- A. A text file
- B. Microsoft Word file
- C. Microsoft Excel file
- D. Tab-delimited text file
- E. Comma separated values

Answer: E

QUESTION 355

You have not yet set up a phone button template in CCM.

With regard to the BAT tool, which of the following statements is true?

- A. The button template is automatically added to CCM when it is added in the BAT template.
- B. The button template will be pushed to the phone but not the CCM database.
- C. The button template must be added if it is included in the BAT template.
- D. BAT will ignore the button template entry and process all other data.

Answer: C

QUESTION 356

What is the user associated with when you install a SoftPhone?

- A. A CTI port
- B. The SoftPhone
- C. A switch port ID
- D. A CTI application
- E. A CTI socket number

Answer: A

QUESTION 357

A CCM administrator tested BAT on just a lab phone. After performing a phone button template update, the administrator called TAC to complain that the new button template would not appear.

What is the most likely problem?

- A. The .csv file had errors in it.
- B. The BAT tool malfunctioned.
- C. The phone has not been reset.
- D. The BAT template was incorrect.

Answer: C

QUESTION 358

Which Microsoft tool is the Cisco-approved way to create BAT .csv files?

- A. Word
- B. Excel
- C. Access
- D. Notepad

Answer: B

Bulk Administration Tool User Guide, Release 4.0(1)

Creating the CSV File for Users

To add users into the Cisco CallManager, you must create a CSV file by completing the BAT.xlt file.

Using the User Tab in BAT.xlt

Follow this procedure to add multiple users.

Procedure

Step 1 Open BAT.xlt

Step 2 Choose the Users sheet tab.

Step 3 Complete all mandatory fields and any relevant optional fields. Each column heading specifies the length of the field.

Note The system treats blank rows in the spreadsheet as "End of File" and discards subsequent records.

Step 4 Click Export to BAT Format to transfer the data from the BAT Excel spreadsheet into a CSV file.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/products_user_guide_chapter09186a00800c4d

QUESTION 359

What needs to be checked on the user configuration page to allow a user to use the Cisco IP SoftPhone application?

- A. Enable CTI Port use
- B. Enable SoftPhone use
- C. Enable CTI Application use
- D. Enable SoftPhone Application use

Answer: C

QUESTION 360

Which two tools are most appropriate for configuring 4,000 IP Phones prior to deploying the phones and allow the phones to auto register? (Choose two)

- A. ART
- B. BAT
- C. AST
- D. TAPS

Answer: B, D

QUESTION 361

Which three are required for TAPS to function correctly? (Choose three)

- A. ART
- B. BAT
- C. IP/IVR
- D. CallManager

Answer: B, C, D

QUESTION 362

When an IP Phone says "Configuring CM List", what is wrong?

- A. Downloading a .cnf.xml file via TFTP.
- B. Retrieving the OS79XX.txt files from TFTP.
- C. Downloading the application load from the TFTP server.
- D. Attempting to register with the first two CallManagers on its list of configured CallManagers.

Answer: A

QUESTION 363

When does an IP Phone receive the ring tones on the phone?

- A. The phone downloads the wave file on boot.
- B. The phone downloads based upon user selection.
- C. The phone downloads the wave file on every request.
- D. The phone downloads based on CallManager request.

Answer: A

QUESTION 364

Which network protocols does an IP Phone use to communicate?

- A. TCP/IP for both skinny signaling and RTP voice streams.
- B. UDP/IP for both skinny signaling and RTP voice streams.
- C. TCP/IP for skinny signaling and UDP/IP for RTP voice streams.
- D. UDP/IP for skinny signaling and TCP/IP for RTP voice streams.

Answer: C

QUESTION 365

Where is the setup found for personal address books?

- A. through the services softkey of the phone
- B. on a web page accessible by the user
- C. on a web page accessible by the administrator
- D. in an XML application

Answer: B

QUESTION 366

What tool should be used to stop or restart services on a Cisco CallManager server?

- A. Windows Administrative Tools\Services
- B. CallManager Serviceability\Control Center
- C. CallManager Serviceability\Service Activation Tool
- D. CallManager Administration\Service Parameters

Answer: B

QUESTION 367

An IP telephony network is being planned with two hundred phones. The phones can be divided into three different types. Limited personnel resources will be available for managing the network and it is expected that IP phones will be changed in and out on a continual basis. Which of the following would be represent

the best way to administer the network? Select two.

- A. Bulk Administration Tool
- B. Tool for Auto-Registered Phones Support
- C. CVS Update Tool
- D. Auto-Load Phones Tool
- E. Auto-registration Tool
- F. Total Load Tool

Answer: A, B

QUESTION 368

A user reports poor quality on voice calls and is instructed to select the QRT softkey. How can you access the information generated by this call?

- A. use Tools\QRT Viewer under the Cisco CallManager Serviceability page
- B. use the perfmon counter application under Administrative Tools
- C. use the System\Real-time Monitor Tool under Cisco CallManager Administration
- D. use the QRT plug-in on the PC of an administrator

Answer: A

QUESTION 369

Which two of these tools can be used to reestablish a Cisco CallManager cluster SQL subscription? (Choose two.)

- A. DNA
- B. RTMT
- C. DBLHelper
- D. SQL Server Service Manager
- E. SQLServer Enterprise Manager

Answer: C,E

QUESTION 370

Which four statements regarding the RTMT are correct? (Choose four.)

- A. RTMT is a stand-alone plug-in installed from the Cisco CallManager Serviceability page.
- B. RTMT monitors a preconfigured set of management objects.
- C. RTMT alert thresholds are not user-configurable.
- D. RTMT can generate e-mail alerts when thresholds are exceeded.
- E. RTMT generates daily reports on system resources.
- F. Real-time monitoring of management objects is stopped when RTMT is not running.

Answer: A,B,D,E

QUESTION 371

Which three options are capabilities of the RTMT? (Choose three.)

- A. It has the capability to generate e-mail alerts when thresholds are exceeded.
- B. It records device-level or port-level information in the gatekeeper table, based on Cisco Unified CallManager alarms.
- C. It generates daily reports on system resources.
- D. It monitors a preconfigured set of management objects.
- E. It monitors call quality through SNMP MIBs.
- F. It stores each H.323 gateway as a device in an H.323 table.

Answer: A,C,D

QUESTION 372

Certkiller makes use of the Cisco Multi Site WAN Distributed Call Processing Deployment model, a H.323 gatekeeper achieves CAC (Call Admission Control) through limiting the number of calls in or out of specified zones. What is the unabbreviated IOS command on the Gatekeeper that you will enter when you need to define the maximum bandwidth allowed in or out of Zone 1 to cater for 128K when you are already in the Gatekeeper configuration mode?

Answer: bandwidth total zone zone1 128
bandwidth

To specify the maximum aggregate bandwidth for H.323 traffic and verify the available bandwidth of the destination gatekeeper, use the bandwidth command in gatekeeper configuration mode. To disable maximum aggregate bandwidth, use the no form of this command.

bandwidth {interzone | total | session} {default | zone zone-name} bandwidth-size
no bandwidth {interzone | total | session} {default | zone zone-name}

Syntax Description

interzone	Total amount of bandwidth for H.323 traffic from the zone to any other zone.
total	Total amount of bandwidth for H.323 traffic allowed in the zone.
session	Maximum bandwidth allowed for a session in the zone.
default	Default value for all zones.
zone	A particular zone.
zone-name	Name of the particular zone.
bandwidth-size	Maximum bandwidth, in kbps. For interzone and total , the range is from 1 to 10000000. For session , the range is from 1 to 5000.

Defaults

Maximum aggregate bandwidth is unlimited by default

Command Modes

Gatekeeper configuration

http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122tcr/122tvr/vrg_b1.htm#wp15032

QUESTION 373

What are the methods available for Starting and Stopping Cisco CallManager?

- A. Cisco CallManager Control Center
- B. Cisco CallManager Server configuration
- C. CTL-ALT-DEL from the Cisco CallManager console
- D. Windows 2000 Services Control Panel
- E. Remove the power cable from the rear of the Cisco CallManager server
- F. The Cisco CallManager server can never be stopped and restarted

Answer: A, D

QUESTION 374

Which of the following System parameter changes will necessitate a restart of Cisco CallManager? (Choose all that apply.)

- A. CallManager Server IP Address
- B. New Route Group
- C. TCP port settings for the Cisco CallManager server
- D. Auto-Registration Partition
- E. External phone number mask

Answer: A, C, D, E

QUESTION 375

Which of the following software functions is provided by Cisco IP Voice Media Streamer Application?

- A. Software Conference Bridge
- B. Software H.323 Gateway
- C. Software Media Termination Point
- D. Software Group Pickup
- E. Music On-Hold
- F. Software Transcoding

Answer: A, C, E

QUESTION 376

You are a network administrator at Certkiller . You are configuring SRST. You issue the ip source-address <ip address>[port<port #>]command. What does this command do?

- A. It enables the router to receive SIP messages on the specified port.

- B. It enables the router to receive H.323 messages on the specified port.
- C. It enables the router to receive MGCP messages on the specified port.
- D. It enables the router to receive skinny messages on the specified port.

Answer: D

QUESTION 377

You are a network administrator at Certkiller . You want to upgrade the publisher database server to CCM 3.3.

What additional task are you required to perform?

- A. Manually format the hard drive.
- B. Replicate the database from the subscriber.
- C. Perform a complete re-image of the server.
- D. Remove the server's account from the domain.

Answer: D

You must perform the following tasks on all servers at the same time:

1. Remove the System From the NT Domain or Microsoft Active Directory Domain and Reboot the Server (Required, If Configured)

*Page 20, Upgrading Cisco CallManager Release 3.3(4)

QUESTION 378

Which of the following files support the resolution of a CCM server's NetBIOS name?

- A. DNS
- B. nbhosts
- C. lmhosts
- D. RADIUS
- E. NetBIOSMap

Answer: C

QUESTION 379

You are a CCM administrator at Certkiller . You need to configure the network so that a Voice Services manager is notified immediately if certain CCM alerts are raised.

How would you accomplish this?

- A. Use an AST log trigger
- B. Use a snmp mib for AST.
- C. Use the e-mail feature in AST.
- D. Use the dial-out in AST.
- E. Use System Monitor.

Answer: C

QUESTION 380

You are a CCM administrator at Certkiller . You want to see network sessions and open port numbers.

Which of the following commands should you use?

- A. ping
- B. nslookup
- C. net start
- D. netstat -a

Answer: D

QUESTION 381

You are a CCM administrator at Certkiller . You have just configured CCM AST alarms. Your newly appointed Certkiller trainee wants to know where these configurations are held.

What will your reply be?

- A. In the database.
- B. In a .ini configuration file.
- C. In a .cfg configuration file.
- D. In the header of the .log file.
- E. In the registry of the publisher.

Answer: A

QUESTION 382

When data is pushed from the publisher SQL2000 database to the subscriber SQL2000 database it is called _____.

- A. Replication
- B. Restoration
- C. Synchronization
- D. Backup processing
- E. Transaction mirroring

Answer: A

QUESTION 383

You are a CCM administrator at Certkiller . You want to compare the performance of two subscribers at different sites. What tool can you use?

- A. PerfMon

- B. Event Viewer
- C. Application Monitor
- D. Performance Monitor
- E. Admin Serviceability Tool

Answer: E

QUESTION 384

For which purpose is Cisco's Emergency Response application ideally suited?

- A. Blocking mis-dialed numbers to 911.
- B. Clearing a PSTN line for emergency dial-out.
- C. Mapping IP addresses to office cubes for emergency response.
- D. Reporting the correct emergency location regardless of moves and changes.

Answer: D

QUESTION 385

A CCM administrator has a suspicion that data for a particular phone in the database are corrupted.

What standard Microsoft SQL2000 tool allows adhoc lookups of the data in the database?

- A. Access
- B. SQL Toolkit
- C. SQL Query Analyzer
- D. Excel linked via ODBC

Answer: C

QUESTION 386

Which CCM page is used to add a CTI port?

- A. add a phone
- B. add a service
- C. add a device pool
- D. add an application

Answer: A

QUESTION 387

Which is the standard command line tool provided by CCM?

- A. show
- B. netstat
- C. ccmstat

D. nslookup

Answer: A

QUESTION 388

A CallManager administrator decides to more closely monitor the performance of a particular server. He takes steps he believes are appropriate in monitoring. Shortly after this, call processing becomes very sluggish on the monitored system. What is the most likely reason?

- A. Monitoring the database has caused it to be corrupt.
- B. A failure just not surfaced and caused the slowdown.
- C. Monitoring the CDR tables has caused them to become inefficient.
- D. The tracefile operation has been turned on, thereby slowing processing.

Answer: D

QUESTION 389

For troubleshooting a problem where all calls on a PRI are intermittently dropped at the same time, which alarm is best to monitor?

- A. BChannelSV
- B. DChannelSV
- C. BChannelOOS
- D. DChannelOOS

Answer: D

Error Message

%CCM_CALLMANAGER-CALLMANAGER-3-DChannelOOS: D channel out of service. Channel Id. [UInt], Unique channel Id [String], Device Name. [String], Device IP address [String], Reason [Optional]. [Enum]

Explanation Indicated D channel has gone out of service.

Recommended Action Contact TAC for help if this alarm continue to generate.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/prod_error_message09186a00802eb191.html

QUESTION 390

Which alarm can be generated when CallManager runs out of DN's for Auto Registered devices?

- A. OutOfDnForAutoRegistration
- B. DnTimeoutForAutoRegistration
- C. AutoRegistrationNumDevRegExceeded
- D. AutoRegistrationDatabaseDeviceNoDirNum

Answer: A

Error Message

%CCM_CALLMANAGER-CALLMANAGER-4-OutOfDnForAutoRegistration:Out of directory numbers for auto-registration.

ExplanationCisco CallManager ran out of directory numbers for auto-registration.

Recommended ActionInvestigate auto-registration configuration.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/prod_error_message09186a00802eb191.html

QUESTION 391

What is the most useful SDI trace used for Call Routing and/or Digit Analysis troubleshooting?

- A. CTI trace
- B. CMI trace
- C. CCM trace
- D. TFTP trace

Answer: C

QUESTION 392

In the following line from a CCM trace:

```
Digit analysis: match(fqcn="9195555692", cn=15692",  
pss="PA:Line1:Cisco:Local:Long  
Distance:International", dd="85552663")
```

What does "PA" represent?

- A. Pattern analysis.
- B. The name of a CSS.
- C. The name of a partition.
- D. A Personal Assistant Interceptor port.

Answer: C

Route Partitions and Calling Search Spaces

Route partitions inherit the error-handling capabilities for the CiscoCallManager software. That is, a console and SDI file trace are provided for logging information and error messages. These messages will be part of the digit analysis component of the traces. You must be sure that you know how the Partitions and Calling Search Spaces are configured and what devices are in each partition and its associated calling search space to determine the source of the problem. Refer to the route plan chapters in the CiscoCallManager Administration Guide and the CiscoCallManager System Guide for more information.

The following trace shows an example of a dialed number that is in the device Calling Search Space. For more detailed explanations about SDI traces, review the case studies in this document.

```
08:38:54.968 Cisco CallManager|StationInit - InboundStim -OffHookMessageID tcpHandle=0x6b88028  
08:38:54.968 Cisco CallManager|StationD - stationOutputDisplayTexttcpHandle=0x6b88028, Display=  
500008:38:54.968 Cisco CallManager|StationD - stationOutputSetLamp stim:9=Line instance=1  
lampMode=LampOn tcpHandle=0x6b8802808:38:54.968 Cisco CallManager|StationD -
```

stationOutputCallStatetcpHandle=0x6b8802808:38:54.968 Cisco CallManager|StationD
-stationOutputDisplayPromptStatustcpHandle=0x6b8802808:38:54.968 Cisco CallManager|StationD -
stationOutputSelectSoftKeystcpHandle=0x6b8802808:38:54.968 Cisco CallManager|StationD
-stationOutputActivateCallPlanetcpHandle=0x6b8802808:38:54.968 Cisco CallManager|Digit analysis:
match(fqcn="5000",cn="5000", pss="RTP_NC_Hardwood:RTP_NC_Woodland:Local RTP", dd="")In
the Digit Analysis component of the previous trace, the pss (Partition Search Space, also
known as Calling Search Space) gets listed for the device placing the call.

In the following trace, RTP_NC_Hardwood;RTP_NC_Woodland;Local RTP represent
the partitions that this device is allowed to call.

```
08:38:54.968 Cisco CallManager|Digit analysis:potentialMatches=PotentialMatchesExist08:38:54.968
Cisco CallManager|StationD - stationOutputStartTone:33=InsideDialTone tcpHandle=0x6b88028
08:38:55.671 Cisco CallManager|StationInit - InboundStim -KeypadButtonMessageID kpButton: 5
tcpHandle=0x6b8802808:38:55.671 Cisco CallManager|StationD -
stationOutputStopTonetcpHandle=0x6b8802808:38:55.671 Cisco CallManager|StationD -
stationOutputSelectSoftKeystcpHandle=0x6b8802808:38:55.671 Cisco CallManager|Digit analysis:
match(fqcn="5000",cn="5000", pss="RTP_NC_Hardwood:RTP_NC_Woodland:Local RTP", dd="5")
08:38:55.671 Cisco CallManager|Digit analysis:potentialMatches=PotentialMatchesExist08:38:56.015
Cisco CallManager|StationInit - InboundStim -KeypadButtonMessageID kpButton: 0
tcpHandle=0x6b8802808:38:56.015 Cisco CallManager|Digit analysis: match(fqcn="5000",cn="5000",
pss="RTP_NC_Hardwood:RTP_NC_Woodland:Local RTP", dd="50")08:38:56.015 Cisco
CallManager|Digit analysis:potentialMatches=PotentialMatchesExist08:38:56.187 Cisco
CallManager|StationInit - InboundStim -KeypadButtonMessageID kpButton: 0 tcpHandle=0x6b88028
08:38:56.187 Cisco CallManager|Digit analysis: match(fqcn="5000",cn="5000",
pss="RTP_NC_Hardwood:RTP_NC_Woodland:Local RTP", dd="500")08:38:56.187 Cisco
CallManager|Digit analysis:potentialMatches=PotentialMatchesExist08:38:56.515 Cisco
CallManager|StationInit - InboundStim -KeypadButtonMessageID kpButton: 3 tcpHandle=0x6b88028
08:38:56.515 Cisco CallManager|Digit analysis: match(fqcn="5000",cn="5000",
pss="RTP_NC_Hardwood:RTP_NC_Woodland:Local RTP", dd="5003")08:38:56.515 Cisco
CallManager|Digit analysis: analysis results08:38:56.515 Cisco
CallManager|PretransformCallingPartyNumber=5000
http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/prod_troubleshooting_guide_chapter09186a0
0
```

QUESTION 393

QoS tools minimize which three problems with IP voice quality? (Choose three)

- A. Jitter
- B. Loss
- C. Delay
- D. Distortion

Answer: A, B, C

QUESTION 394

Messages in the CCM trace that start with 'StationD' refer to messages _____.

- A. To an IP phone.
- B. From StationInit
- C. From an IP Phone
- D. To and from an IP Phone

Answer: A

StationD messages are sent from CCM to the phone.

StationInit messages are sent from the phone to CCM.

Reference: Cisco Press book, Troubleshooting Cisco IP Telephony, Page 52.

ISBN: 1-58705-075-7

Cisco CallManager Intra-Cluster Call Flow Traces

The following SDI traces explore the intra-cluster call flow in detail. The Cisco IP Phones in the call flow can be identified by the directory number (dn), tcpHandle, and IP address. A Cisco IP Phone (dn: 1001, tcpHandle: 0x4fbbc30, IP address: 172.16.70.231) located in Cluster 2 is calling another Cisco IP Phone in the same Cluster (dn=1000, tcpHandle= 0x4fbb150, IP address= 172.16.70.230). Remember that you can follow a device through the trace by looking at the TCP handle value, time stamp, or name of the device. The TCP handle value for the device remains the same until the device is rebooted or goes offline.

The following traces show that the Cisco IP Phone (1001) has gone off-hook. The trace below shows the unique messages, TCP handle, and the called number, which are displayed on the Cisco IP Phone. There is no calling number at this point, because the user has not tried to dial any digits. The information below is in the form of Skinny Station messages between the Cisco IP Phones and the Cisco CallManager.

```
16:05:41.625 CCM|StationInit - InboundStim - OffHookMessageID
tcpHandle=0x4fbbc30
```

```
16:05:41.625 CCM|StationD - stationOutputDisplayText
tcpHandle=0x4fbbc30, Display= 1001
```

The next trace shows Skinny Station messages going from Cisco CallManager to a Cisco IP Phone. The first message is to turn on the lamp on the calling party's Cisco IP Phone.

```
16:05:41.625 CCM|StationD - stationOutputSetLamp stim: 9=Line
instance=1 lampMode=LampOn tcpHandle=0x4fbbc30
```

```
http://www.cisco.com/en/US/partner/products/sw/voicesw/ps556/prod_troubleshooting_guide_chapter09186a00
```

QUESTION 395

Which statement is true about SQL database replication in a cluster?

- A. One server is designated as the publisher and all others are subscribers. Database replication for CallManager configuration information is one-way from publisher to subscribers.
- B. All SQL servers are equal in the cluster. Each server establishes SDL links to all the other servers in the cluster to replicated changes to the CallManager configuration information.
- C. All SQL servers are equal in the cluster. All the SQL databases are kept synchronized by the Microsoft SQL Synchronization

Service.

Updates from any server are replicated to all other services in the cluster.

D. One server is designated as the publisher and all others are subscribers.

Database replication for CallManager configuration information can occur from publisher to subscriber or subscriber to publisher depending on where the data are updated.

Answer: A

QUESTION 396

In the following line from a CCM trace:

```
Digit analysis: match(fqcn="9195555692", cn="15692",
```

```
pss="PA:Line1:Cisco:Local:Long
```

```
Distance:International", dd="15644")
```

What is the called party number?

- A. 15644
- B. 15692
- C. 9195555692
- D. International

Answer: A

QUESTION 397

If the following message appears in a CCM trace, what does

LONG-DISTANCE-DIRECT-DIAL EXISTS represent?

```
|DialingPattern=9.@
```

```
|DialingRoutePatternRegularExpression=(9)(1)([2-9]x[02-9])([2-9]xx)(xxxx)
```

```
|DialingWhere=(LONG-DISTANCE-DIRECT-DIAL EXISTS)
```

```
|PatternType=National
```

```
|PotentialMatches=NoPotentialMatchesExist
```

- A. A clause in a Route Filter.
- B. The name of a Route Filter.
- C. Part of the 9@ Route Pattern.
- D. A route pattern in the Long Distance partition.

Answer: C

QUESTION 398

What is the primary aim of the Cisco PDIOO model?

- A. to approach security as an ongoing concern
- B. to establish a lasting, thorough security policy
- C. to provide a framework for security application design
- D. to provide a guideline for making security decisions

Answer: A

Critical to the success of IP communications security is adherence to a well-thought-out and comprehensive security policy. The security policy should enforce the planning, design, implementation, operation, and optimization (PDIOO) approach. The PDIOO approach is an ongoing process that results in continual monitoring and improvement of IP communications security.

Reference:

http://www.cisco.com/en/US/partner/netsol/ns340/ns394/ns165/ns391/networking_solutions_design_guidance09

QUESTION 399

Which hardware option will support a maximum of 10 simultaneous conference bridges per port?

- A. WS-X6608-xx
- B. IPVC-35xx
- C. NM-HDV
- D. IP Voice Media Application

Answer: A

QUESTION 400

Which two of the following can be used to create a .csv file? Select two.

- A. BAT .xlt template file
- B. text editor such as Microsoft Notepad
- C. command line interpreter
- D. CallManager CSV screen
- E. BAT.doc document

Answer: A, B

QUESTION 401

DRAG DROP

You work as a network technician at Certkiller .com. Your boss, Mrs. Certkiller, is curious about Cisco services. Match the service with the proper applications.

- Cisco CallManager Service
- Cisco Messaging Interface
- Cisco IP Voice Media Streaming
- Cisco Real-Time information Service
- Cisco Database Layer Monitor

- | | |
|---------------------|------------|
| SMDI integration | Place here |
| Trace files | Place here |
| Music on Hold | Place here |
| Call Detail Records | Place here |
| Call processing | Place here |

Answer:

- | | |
|---------------------|-------------------------------------|
| SMDI integration | Cisco Database Layer Monitor |
| Trace files | Cisco CallManager Service |
| Music on Hold | Cisco IP Voice Media Streaming |
| Call Detail Records | Cisco Messaging Interface |
| Call processing | Cisco Real-Time information Service |

QUESTION 402

Which two of these items can be used to create a CSV file? (Choose two.)

- A. Cisco CallManager CSV screen
- B. BAT .xlt template file
- C. BAT.doc document
- D. text editor
- E. command-line interpreter

Answer: B,D

QUESTION 403

Which of the following statements regarding the Cisco MCS-7825-1133 server is true?

- A. The MCS7825-1133 has the ability to support Clustering capabilities for up to 8 servers to be managed as a single entity
- B. The MCS7825-1133 has the ability to support Cisco IP IVR software
- C. The MCS7825-1133 has the ability to support redundant hot swap power supplies

- D. The MCS7825-1133 does not have the ability to support Cisco IP IVR software
- E. The MCS-7825-1133 is a mere 1U rack form factor high
- F. The MCS7825-1133 does not have the ability to support redundant hot swap power supplies

Answer: A, B, E, F

QUESTION 404

What is the maximum amount of connection that the Cisco Power Patch Panel can support?

- A. 24
- B. 64
- C. 1
- D. 48
- E. 32

Answer: D

QUESTION 405

What is the acceptable one-way delay budget to achieve high quality voice in an integrated network based on the G.114 standard?

- A. 20ms
- B. 100ms
- C. 150ms
- D. 250ms
- E. 500ms
- F. None of the Above

Answer: C

QUESTION 406

What is the name of the value that each IP telephony device is allocated, that you would use to determine the overall number of devices a CallManager can support?

- A. user
- B. size
- C. weight
- D. capacity
- E. resource

Answer: C

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 407

What are the new CDP fields that had been added for use with IP Telephony?
(Choose all that apply.)

- A. Layer 3 Protocol Address
- B. Voice VLAN ID (VVID)
- C. Chassis Type
- D. Power Field
- E. Serial Number
- F. Trigger Field

Answer: B, D, F

QUESTION 408

Which of the statements regarding Inline Power on Catalyst switches are valid?
(Choose all that apply.)

- A. When using dual Supervisors both power management and port power status is synchronized across the Active and Stand-by Supervisors.
- B. Insufficient power to power a particular point is indicated by a Power-Deny Syslog message.
- C. A Power-Deny Syslog message indicates that the attached device is not an IP Phone and therefore the switch will not supply power to that port.
- D. When using dual Supervisors power management and the port power status is maintained only by the Active Supervisor.
- E. Power status on a per port basis is displayed by the CatOS command "show port status" .

Answer: A, B, E

QUESTION 409

Which of the following Catalyst switches is capable of trusting QOS on ports?

- A. Catalyst 6000
- B. Catalyst 3524
- C. Catalyst 4000
- D. Catalyst 5000
- E. Catalyst 2900
- F. Catalyst 5500

Answer: A, B, C, E

QUESTION 410

The newly appointed Certkiller trainee technician wants to know which of the following IP Phones offers a full-featured, IP-based, full duplex hands-free

conference station for use in small to medium sized conference rooms. What will your reply be?

- A. 7960
- B. 7914
- C. 7935
- D. 7910
- E. 7940

Answer: C

QUESTION 411

Is the following true or false? When Inline power is being used to supply power to an IP Phone, the Catalyst switch sends a special Fast Link Pulse (FLP) signal down the cable to discover whether or not the attached device is an IP Phone.

- A. True
- B. False

Answer: A

Explanation: [http:// <CCM server name or IP address>/ccmuser/logon.asp](http://<CCM server name or IP address>/ccmuser/logon.asp) is the web-site accessible by the user to find setup for personal address books. Cisco has been shipping its PoE solution since 2000 and currently has more than 16 million IP PoE ports installed. The currently shipping Cisco solution uses a differential discovery scheme based on a special tone. The PSE (Power Sourcing Equipment) sends a unique fast link pulse (FLP) over the transmit (Tx) pair. If the connected device is PoE-capable, it returns this FLP back to the switch. At this point, the switch recognizes that the attached device is PoE-capable and powers the device with the default power allocation. Cisco IP phones and wireless access points use the Cisco Discovery Protocol to subsequently refine the power requirement for the particular device. The current default allocation is 6.3W. The Cisco prestandard implementation uses the link signal of the port physical layer (PHY) to shut the port down. When the link is lost, power is removed from the port. Figure 1 shows this process of powering a Cisco powered device.

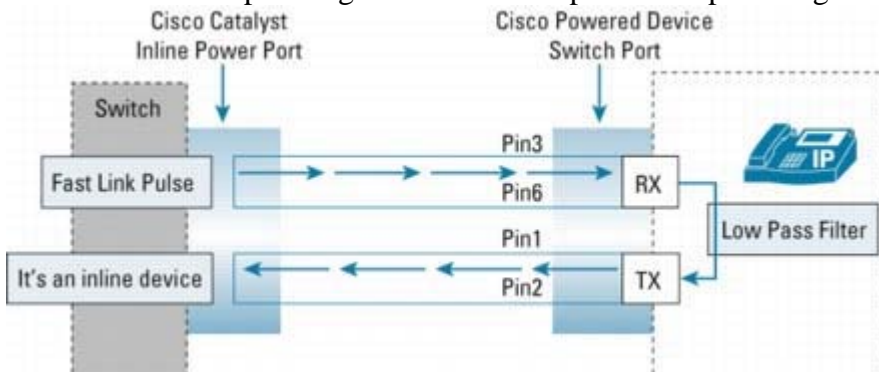


Figure 1. Cisco Prestandard Powered-Device Power Delivery

QUESTION 412

Which of the following is the unabbreviated CatOS command that will set the amount of power, in watts that can be provided by the switch to each port?

- A. set inline-power default-allocation <value>
- B. inlinepower defaultallocation <value>
- C. set inlinepower defaultallocation <value>
- D. inline-power default-allocation <value>
- E. set inline powerallocation <value>

Answer: C

set inlinepower defaultallocation

To set the default power allocation for a port, use the set inlinepower defaultallocation command.

set inlinepower defaultallocation value

Syntax Description

value Default power allocation; valid values are from 4000 to 15400 milliwatts.

http://www.cisco.com/univercd/cc/td/doc/product/lan/cat6000/sw_8_3/cmd_ref/set_f_1.htm#wp1292088

QUESTION 413

Which of the following modes will be made available when a Catalyst switch port to provide inline power to attached IP Phones is configured?

- A. Auto
- B. On
- C. Enable
- D. Off
- E. Deny
- F. No Power

Answer: A, D

QUESTION 414

The newly appointed Certkiller trainee technician wants to know which of the following are the available Loads which is an executable code image for a device. What will your reply be? (Choose all that apply.)

- A. Phone
- B. Cluster
- C. CallManager
- D. Gateway
- E. Region
- F. Trunk

Answer: A, D

QUESTION 415

Which of the following statements regarding CallManager Redundancy Groups is valid? (Choose all that apply.)

- A. A CallManager Redundancy Group is a subset of a cluster.
- B. Members of a cluster are also members of a Redundancy Group.
- C. All devices in a cluster should be assigned to multiple CallManager Redundancy Groups.
- D. All devices in a cluster should be assigned to a single CallManager Redundancy Group.
- E. Devices are not assigned to CallManager Redundancy Groups.
- F. Members of a Cluster substitutes as a subset of a CallManager Redundancy Group.

Answer: A, B, D

QUESTION 416

The newly appointed Certkiller trainee technician wants to know what the acronym AVVID stands for. What will your reply be?

- A. Architecture for Voice Video and Intelligent Data
- B. Architecture for Voice Video and Integrated Data
- C. Any Voice Video and Integrated Data
- D. A Lot of Voice Video and Integrated Data
- E. All Voice Video and Integrated Data

Answer: B

QUESTION 417

What is the unabbreviated CatOS command on a Catalyst 6000 switch that you will enter to use In Line Power on port 4/1 should an IP Phone be connected to that port?

Answer: set port inlinpower 4/1 auto
set port inlinpower

To set the inline power mode of a port or group of ports, use the set port inlinpower command.

set port inlinpower mod/port { auto | static } [max-wattage]

set port inlinpower mod/port off

Syntax Description

<i>mod/port</i>	Number of the module and the port on the module.
auto	Powers up the port <i>only</i> if the switching module has discovered the phone.
static	Powers up the port to a preallocated value so that the port is guaranteed power. See the "Usage Guidelines" section for more information.
<i>max-wattage</i>	(Optional) The maximum power allowed on the port in either auto or static mode; valid values are from 4000 to 15400 milliwatts.
off	Prevents the port from providing power to an external device.

Defaults

The default is auto.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

If you specify auto or static mode but do not specify a max-wattage argument, the maximum wattage that is supported by the hardware is used.

If you specify static mode, power is preallocated to the specified port even if no devices are connected to that port. Connecting any device to that port ensures priority of service because that port is guaranteed power.

If you enter the off keyword, the inline power-capable device is not detected.

If you enter this command on a port that does not support the IP phone power feature, an error message is displayed.

You can enter a single port or a range of ports, but you cannot enter the module number only.

http://www.cisco.com/univercd/cc/td/doc/product/lan/cat6000/sw_8_3/cmd_ref/set_po_r.htm#wp1644821

QUESTION 418

The newly appointed Certkiller trainee technician wants to know which pins are used to supply power on a standard category 5 cable when connecting an IP Phone to an In-Line Power 10/100-line card in a Catalyst 6000 switch. What will your reply be?

- A. 1,2,3,6
- B. 4,5,6,7
- C. 0,1,2,3,4,5,6
- D. 4,5,7,8
- E. 1,2,3,4
- F. 1-10, 15-20

Answer: A

CISCO PRESTANDARD PoE IMPLEMENTATION

Two entities are directly connected in a PoE implementation: the power sourcing equipment (PSE), which is the line card in the switch, and the powered device, which receives power from the PSE. Examples of powered devices include IP phones, wireless access points, IP cameras, or any other PoE-powered device. The PSE requires a power supply capable of generating the -48V of power required. Power is provided over the same twisted pairs used by data (pins 1, 2, 3, and 6). This is also referred to as a PSE end span. Another alternative (not covered in this paper) is referred to as a PSE midspan. The PSE is a patch panel-type device placed between the switch and a powered device. Power is transmitted from the PSE midspan to the powered device using the unused Ethernet pins: 4, 5, 7, and 8.

http://www.cisco.com/en/US/partner/products/hw/switches/ps708/products_white_paper0900aecd80233a77.shtml

QUESTION 419

What is the bandwidth that the Gatekeeper allocates per call when requested by CallManager to place a call across the WAN using G.711? NB: An IOS Gatekeeper provides Call Admission Control (CAC) across Inter-Cluster links.

- A. 128 kbps
- B. 64 kbps
- C. 80 kbps
- D. 24 kbps
- E. 8 kbps
- F. 256 kbps

Answer: A

QUESTION 420

What is the consequence of entering the following key sequence on a 7960 IP Phone:
**#

- A. The phone will lose power.
- B. The phone will perform a local reset.
- C. The phone will allow changes to be made to the Network Configuration options.
- D. The phone will erase its local configuration.
- E. The phone will check for Voice Mail Messages.
- F. The phone will initiate last number re-dial.

Answer: C

QUESTION 421

Is the following true or false? Only one of the three available power options, Inline Power, External Power Patch Panel and Wall Power, can be used at the same time to provide power to an IP Phone.

- A. True
- B. False

Answer: B

QUESTION 422

Which Cisco CallManager model that has the following specifications:

- 1 GHz Pentium III Processor
- 1 GB Error Correcting SDRAM
- Dual 18.2 GB Ultra3 Hot Swap SCSI Hard Drives
- Redundant Hot Swap Power Supplies

Hardware RAID Controller

- A. MCS-7822
- B. MCS-7835-1000
- C. MCS-7845-1400
- D. MCS-7825-1133
- E. MCS-7815-1000
- F. MCS-7830

Answer: B

QUESTION 423

Which of the following statements regarding Restarting and Resetting IP Phones are valid? (Choose all that apply.)

- A. Restarting a device restarts it without performing a complete shutdown.
- B. Restarting a device restarts it by performing a complete shutdown and then bringing it back up.
- C. Resetting a device resets it by performing a complete shutdown and then bringing it back up.
- D. Resetting a device resets it without performing a complete shutdown.
- E. Restarting and resetting a device are the same action.
- F. There is no such action as Resetting only Restarting a device.

Answer: A, C

Cisco Technical Support IP Phone FAQ

Document ID: 16049

Q. What is the difference between restarting and resetting a phone?

A. A restart only re-registers the phone with the Cisco CallManager whereas a reset does a complete re-initialization of the phone. In the case of a reset, the phone fetches its configuration file again from the TFTP path which will not happen if you restart the phone. Using the sequence `**#**` also makes the phone fetch its configuration file from the TFTP path.

http://www.cisco.com/en/US/partner/products/hw/phones/ps379/products_qanda_item09186a00800a6763.shtml
#

QUESTION 424

The newly appointed Certkiller trainee technician wants to know which of the following IP Phones offers a full-featured, IP-based, full duplex hands-free conference station for use in small to medium sized conference rooms. What will your reply be?

- A. 7935
- B. 7910
- C. 7960

- D. 7914
- E. 7940

Answer: A

QUESTION 425

Which of the following describes a virtual device that can receive multiple, simultaneous calls for application-controlled redirection?

- A. Route Pattern
- B. Route Group
- C. Media Resource Group
- D. CTI Route Point
- E. Gateway
- F. IVR

Answer: D

Cisco CallManager Administration Guide, Release 3.1(2)

CTI Route Point Configuration

A computer telephony integration (CTI) route point designates a virtual device that can receive multiple, simultaneous calls for application-controlled redirection.

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

QUESTION 426

What is the unabbreviated CatOS command on a Catalyst 6000 switch that you would use to view the In Line Power status on port 2/15?

Answer: show port inlinpower 2/15

show port inlinpower

To display the port power administration and operational status, use the show port inlinpower command.

show port inlinpower [mod[/port]] [detail]

mod	(Optional) Number of the module.
port	(Optional) Number of the port on the module.
detail	(Optional) Displays detailed inline power information.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Normal.

Usage Guidelines

An inline power-capable device can still be detected even if the inline power mode is set to off.

The Operational (Oper) status field descriptions are as follows:

on-Power is being supplied by the port.

off-Power is not being supplied by the port.

denied-The system does not have enough available power for the port; power is not being supplied by the port.

faulty-The port is unable to provide power to the connected device.

http://www.cisco.com/univercd/cc/td/doc/product/lan/cat6000/sw_8_3/cmd_ref/sh_p_sn.htm#wp1029737

QUESTION 427

What are the methods available to supply power to IP Phones?

- A. Inline Power
- B. No Power
- C. External Power Patch Panel
- D. Wall Power
- E. Battery Power
- F. Power from the attached PC

Answer: A, C, D

QUESTION 428

Is the following true or false? The Catalyst 6000, 5000, 4000 and 3500 switches all have the capability to re-classify CoS at layer 2.

- A. True
- B. False

Answer: A

QUESTION 429

An IP Phone can be assigned a list of CallManagers with which to register within a cluster. How many CallManagers can be included in this specific list?

- A. 1
- B. 3
- C. 5
- D. 10
- E. 100

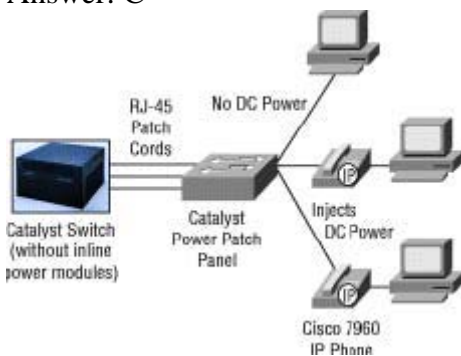
Answer: B

QUESTION 430

The newly appointed Certkiller trainee technician wants to know which pins are used to supply power on a standard category 5 cable when connecting an IP Phone to an External Power Patch Panel. What will your reply be?

- A. 1,2,3,6
- B. 4,5,6,7
- C. 4,5,7,8
- D. 1-10, 15-20
- E. None of the Above

Answer: C



The Catalyst Inline Power Patch Panel can also work in conjunction with the existing patch-panel configuration (see Figure 2). Ethernet terminals use pins 1, 2, 3, and 6 for data transmission, and the Catalyst Inline Power Patch Panel

does not access or insert power into these wire pairs. The Catalyst Inline Power Patch Panel acts as a normal patch panel for Ethernet connections that do not require inline power, ensuring reliable performance by keeping unnecessary

circuitry out of these normal patch-panel connections. The Catalyst Inline Power Patch Panel provides power only on

the unused Fast Ethernet pins 4, 5, 7, and 8. Network administrators can count on reliable power distribution that will

not interfere with network operations that do not require inline power.

http://www.cisco.com/en/US/partner/products/hw/modules/ps2797/products_data_sheet09186a00800a9ea3.htm

1

QUESTION 431

What is the correct syntax that you will advise the Certkiller trainee technician to use when assigning an Auxiliary Voice VLAN 200 to switch port 3/2 on a Catalyst 6509 switch?

- A. set port auxiliaryvlan 200 3/2
- B. set auxiliary vlan 3/2 200
- C. set port vlan 200 3/2
- D. set port auxiliaryvlan 3/2 200

- E. set port auxiliary vlan 3/2 200
- F. none of the above

Answer: D

QUESTION 432

Which of the following audio codec uses less than 15 kbps? (Choose all that apply.)

- A. G723
- B. G728
- C. G729
- D. G711

Answer: A, C

QUESTION 433

The newly appointed Certkiller trainee technician wants to know what the default CoS that Cisco 7940 assigns to all voice packets is. What will your reply be?

- A. 5
- B. 6
- C. 10
- D. 12

Answer: A

QUESTION 434

Under which condition will Cisco Emergency Responder absolutely not be needed in a single site implementation?

- A. With stationary IP phones
- B. With shared line appearances
- C. In a 30 employee company using SoftPhone
- D. When IP phones are attached to Catalyst switches

Answer: A

QUESTION 435

You are a CCM administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what the maximum number of phones that are supported under SRST running on a Cisco 7200 series router is. What will your reply be?

- A. 480
- B. 580
- C. 680

- D. 720
- E. Unlimited

Answer: A

Table 2.SRST Platform Density and Feature License Part Numbers

Platform	Number of Phones Supported	Part Number	Part Number (spare)
Cisco 1751-V, Cisco 1760, Cisco 1760-V, and Cisco 2801	Up to 24 phones	FL-SRST-SMALL	FL-SRST-SMALL=
Cisco 2600*, Cisco 2600XM, and Cisco 2811	Up to 36 phones	FL-SRST-36	FL-SRST-36=
Cisco 2650, Cisco 2650XM, and Cisco 2821 routers	Up to 48 phones	FL-SRST-MEDIUM	FL-SRST-MEDIUM=
Cisco 2851 router	Up to 96 phones	FL-SRST-96	FL-SRST-96=
Cisco 3725 router	Up to 144 phones	FL-SRST-144	FL-SRST-144=
Cisco 3825 router	Up to 336 phones	FL-SRST-336	FL-SRST-336=
Cisco 3745, Cisco Catalyst® 6500 Communication Media Module (CMM)**	Up to 480 phones	FL-SRST-480	FL-SRST-480=
Cisco 7200 Series NPE-400 and NPE-G1 network processing engines***	Up to 480 phones	FL-SRST-480	FL-SRST-480=
Cisco 3845 router	Up to 720 phones	FL-SRST-720	FL-SRST-720=

* The Cisco 2600 supports Cisco SRST 2.1 only with Cisco IOS Software Release 12.3 mainline images; releases after

Cisco SRST 2.1 are not supported on any of the Cisco 2600 routers.

** The Cisco Catalyst 6500 CMM supports SRST 3.2 in Cisco IOS Software Release 12.3(8)XY and supports SRST 2.1

with Release 12.2(13)ZC.

*** The Cisco 7200 supports SRST 2.1 only with Cisco IOS Software Release 12.3 Mainline.

**** Combine part numbers: FL-SRST-SMALL and FL-SRST-MEDIUM two FL-SRST-36 licenses or three FL-SRST-SMALL licenses to support 72 IP phones in SRST.

http://www.cisco.com/en/US/partner/products/sw/voicesw/ps2169/products_data_sheet09186a00800888ac.html

QUESTION 436

You are a network administrator at Certkiller . You want to configure the Catalyst 3524 switch to trust the CoS of the device attached to the Cisco 7060 IP phone. What command would you use?

- A. set port priority extend trust
- B. switchport priority extend trust
- C. set port co 2/1 trust-ext trust-cos
- D. switchport cos 2/1 trust-ext trust-cos

Answer: B

Quality of Service on Catalyst 2900 XL and 3500 XL Series Switches Frequently Asked Questions

Q. Can I re-classify Class of Service (CoS) value of data generated from a PC connected to an IP phone which is attached to the Catalyst 2900 XL and 3500 XL series switches?

A. Yes, you can configure the interface level switchport priority extend trust command. This feature instructs the first Cisco IP phone to trust the dot1p tag received from the phone or any device connected to it on the phone's secondary port. This command needs to be used with caution. If the user connects a workstation which sets the tag to the IP

phone, the data traffic from the user gets the user set priority. It has a negative impact on the quality of the voice.

http://www.cisco.com/en/US/partner/products/hw/switches/ps607/products_qanda_item09186a0080116ffe.shtml

QUESTION 437

You are a network administrator at Certkiller . The Certkiller network has a 7060 IP phone that is drawing power from a Catalyst 6000 series switch. Your newly appointed Certkiller trainee wants to know what the power requirements for this phone are.

What will your reply be?

- A. -48 volts, 7 watts
- B. -15 volts, 5 watts
- C. 15 volts, 5 watts
- D. 15 volts, 7 watts
- E. 48 volts, 7 watts

Answer: A

QUESTION 438

You are the network administrator at Certkiller . You want to configure VLAN 3 to be used for voice in CatOS.

Which command should you use?

- A. set voice vlan 3 [mod/port]
- B. set auxiliaryvlan 3 [mod/port]
- C. set port voice vlan 3 [mod/port]
- D. set port auxiliaryvlan 3 [mod/port]
- E. set port auxiliaryvlan [mod/port] 3

Answer: E

D is not correct.

set port auxiliaryvlan

To configure the auxiliary VLAN ports, use the set port auxiliaryvlan command.

set port auxiliaryvlan mod[/port] {vlan | untagged | dot1p | none} [cdpverify {enable | disable}]

Syntax Description

<i>mod/port</i>	Number of the module and (optional) port or multiple ports.
<i>vlan</i>	Number of the VLAN; valid values are from 1 to 4094.
untagged	Specifies the connected device send and receive untagged packets without 802.1p priority.
dot1p	Specifies the connected device send and receive packets with 802.1p priority.
none	Specifies that the switch does not send any auxiliary VLAN information in the CDP packets from that port.
<i>cdpverify</i>	(Optional) Sets automatic detection of IP phones by using CDP.
enable	Enables the automatic detection of IP phones.
disable	Disables the automatic detection of IP phones.

Defaults

The default setting is none.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

If you do not specify a port, all ports are selected. The `vlan` option specifies that the connected device sends packets that are tagged with a specific VLAN.

If you enter the `none` option, voice information will not be sent or received.

Dynamic VLAN support for voice VLAN identifier (VVID) includes these restrictions to the following multiple VLAN access port (MVAP) configuration on the switch port:

You can configure any VVID on a dynamic port including `dot1p` and `untagged`, except when the VVID is equal to `dot1p` or `untagged`. If this is the case, you must configure VMPS with the MAC address of the IP phone. When you configure the VVID as `dot1p` or `untagged` on a dynamic port, this warning message is displayed:

VMPS should be configured with the IP phone mac's.

For dynamic ports, the auxiliary VLAN ID cannot be the same as the native VLAN ID assigned by VMPS for the dynamic port.

You cannot configure trunk ports as dynamic ports, but an MVAP can be configured as a dynamic port.

The presence of an IP phone is determined through CDP packet exchange between the switch and the phone. This detection method is used for both inline-powered IP phones and wall-powered IP phones.

If the auxiliary VLAN ID equals the port-VLAN ID or when the auxiliary VLAN ID is configured as `none`, `dot1p`, or `untagged`, this feature cannot be applied to the port. If any command entry results in the auxiliary VLAN ID equaling the port-VLAN ID, the feature is disabled and the following warning message is displayed:

`cdpverify` feature on port `mod/port` is disabled. Examples

This example shows how to set the auxiliary VLAN port to `untagged`:

```
Console> (enable) set port auxiliaryvlan 5/7 untagged
Port 5/7 allows the connected device send and receive untagged packets and without 802.1p priority.
```

This example shows how to set the auxiliary VLAN port to `dot1p`:

```
Console> (enable) set port auxiliaryvlan 5/9 dot1p
Port 5/9 allows the connected device send and receive packets with 802.1p priority.
```

This example shows how to set the auxiliary VLAN port to `none`:

```
Console> (enable) set port auxiliaryvlan 5/12 none
Port 5/12 will not allow sending CDP
```


packets with AuxiliaryVLAN information. Console> (enable) This example shows how to set the auxiliary VLAN port to a specific module, port, and VLAN:

Console> (enable) set port auxiliaryvlan 2/1-3 222 Auxiliaryvlan 222 configuration

successful. AuxiliaryVlan AuxVlanStatus Mod/Ports-----

-----222 active 1/2,2/1-3 Console> (enable)

http://www.cisco.com/univercd/cc/td/doc/product/lan/cat6000/sw_8_3/cmd_ref/set_po_r.htm#wp1235003

QUESTION 439

You are the network administrator at Certkiller . Your newly appointed Certkiller trainee wants to know what protocol passes changes to the phones. What will your reply be?

- A. RIP
- B. TCP
- C. UDP
- D. CDP

Answer: B

QUESTION 440

How does the Cisco IP phone in a branch office know which device will be running SRST when there is a WAN outage?

- A. The phone uses the IP address configured for failover.
- B. The phone needs to have the device's IP address in the CCM.
- C. The SRST device sends its IP address to the phone when there is a WAN outage.
- D. All routers at the branch site run SRST so the phone randomly selects a router to fail to.

Answer: B

QUESTION 441

What command changes the standard 10 watts of power to the required 7 watts to the powered ports on a Cisco 6000 series switch?

- A. set power allocation 7
- B. set power allocation 7000
- C. set inlinepower defaultallocation 7
- D. set inlinepower defaultallocation 7000

Answer: D

set inlinepower defaultallocation

To set the default power allocation for a port, use the set inlinepower defaultallocation command.

set inlinepower defaultallocation value

Syntax Description

value Default power allocation; valid values are from 4000 to 15400 milliwatts.

Defaults

The default is 15400 milliwatts.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

The set inlinepower defaultallocation command is global and only affects Cisco IP phones.

Caution

The set inlinepower defaultallocation command can be harmful when there is not enough power in the system to bring up all connected inline power devices. If you set a small value for the power allocation, all connected inline power devices initially will be powered up. However, after receiving CDP messages, the system will learn that devices are consuming more power and deny power to some of the ports. Setting a small value might also result in the overdrawing of power for some time with unanticipated results, such as hardware failures and unexpected resets.

7000 milliwatts is the maximum power supported for these modules: WS-X6148-RJ21V, WS-X6148-RJ45V, WS-X6348-RJ21V, and WS-X6348-RJ45V.

Examples

This example shows how to set the default power allocation to 9500 milliwatts:

```
Console> (enable) set inlinepower defaultallocation 9500
Default inline power allocation set to 9500 mWatt per applicable port.
Console> (enable)
```

QUESTION 442

What are three criteria to narrow the view of AST? (Choose three)

- A. specific node(s)
- B. specific cluster(s)
- C. specific subnet(s)
- D. specific error code (s)
- E. specific directory number (s)

Answer: A, C, E

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You can further refine the Device Monitor aspect of AST to narrow the search characteristics to directory numbers or subnet. In addition, you may select only that you wish to monitor, such as Node or Status Reason.

QUESTION 443

Which two are required to support the use of the switch CAM table to find telephone devices for E-911 services? (Choose two)

- A. A list of switch IP address.

- B. Enabling and telneting passwords.
- C. CAM phone port on a Catalyst switch.
- D. CAM Sniffer (CAM-S) on a trunk port of a Catalyst switch.

Answer: A, B

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When using the switch CAM table (alternate) to find telephone devices, the following guidelines need to be followed:

1. Requires a list of switch IP addresses, telnet and enable passwords, and SNMP read strings.

QUESTION 444

Cisco Catalyst switches support inline power on which group of pins?

- A. 1, 2, 7, 8
- B. 1, 2, 3, 6
- C. 3, 6, 4, 5
- D. 3, 6, 7, 8
- E. 4, 5, 7, 8
- F. 4, 5, 1, 2

Answer: B

QUESTION 445

You create VLAN 12 to be used for voice. Which command configures VLAN 12 to be used for voice and a Catalyst 3524?

- A. switchport voice vlan 12
- B. switchport auxiliaryvlan 12
- C. switchport trunk voice vlan 12
- D. switchport access voice clan 12

Answer: A

switchportvoice vlan

To configure the voice VLAN on the port, use the switchport voice vlan command in interface configuration mode. To return the setting to its default, use the no form of this command.

switchport voice vlan {vlan-id | dot1p | none | untagged}

no switchport voice vlan

Syntax Description

vlan-id	VLAN used for voice traffic. Valid IDs are from 1 to 1005 (IDs 1006 to 4096 are not supported). Do not enter leading zeros. The switch port is an 802.1Q trunk port.
dot1p	The telephone uses priority tagging and uses VLAN 0. The switch port is an 802.1Q trunk port.
none	The telephone is not instructed through the command-line interface (CLI) about the voice VLAN. The telephone uses the configuration from the telephone keypad.
untagged	The telephone does not tag frames; it uses VLAN 4095. The switch port can be an access port or an 802.1Q trunk port.

QUESTION 446

For VoIP control traffic, the layer 2 CoS value should be set to _____.

- A. 0
- B. 2
- C. 3
- D. 5

Answer: C

COS for Control traffic should be set to 3, COS for Voice bearer traffic should be set to