



**Cisco**

## **Exam Questions 350-801**

Implementing and Operating Cisco Collaboration Core Technologies

## NEW QUESTION 1

Refer to the exhibit.

```

Gateway1#show sccp
SCCP Admin State: UP
Gateway Local Interface: Loopback0
IPv4 Address: 192.168.12.1
Port Number: 2000

Gateway1#
Gateway1#show ccm-manager
% Call Manager Application is not enabled
Gateway1#

Gateway1#show mgcp
MGCP Admin State DOWN, Oper State DOWN - Cause Code NONE
MGCP call-agent: none Initial protocol service is MGCP 0.1
MGCP validate call-agent source-ipaddr DISABLED
MGCP validate domain name DISABLED
MGCP block-newcalls DISABLED
MGCP send SGCP RSIP: forced/restart/graceful/disconnected DISABLED
    
```

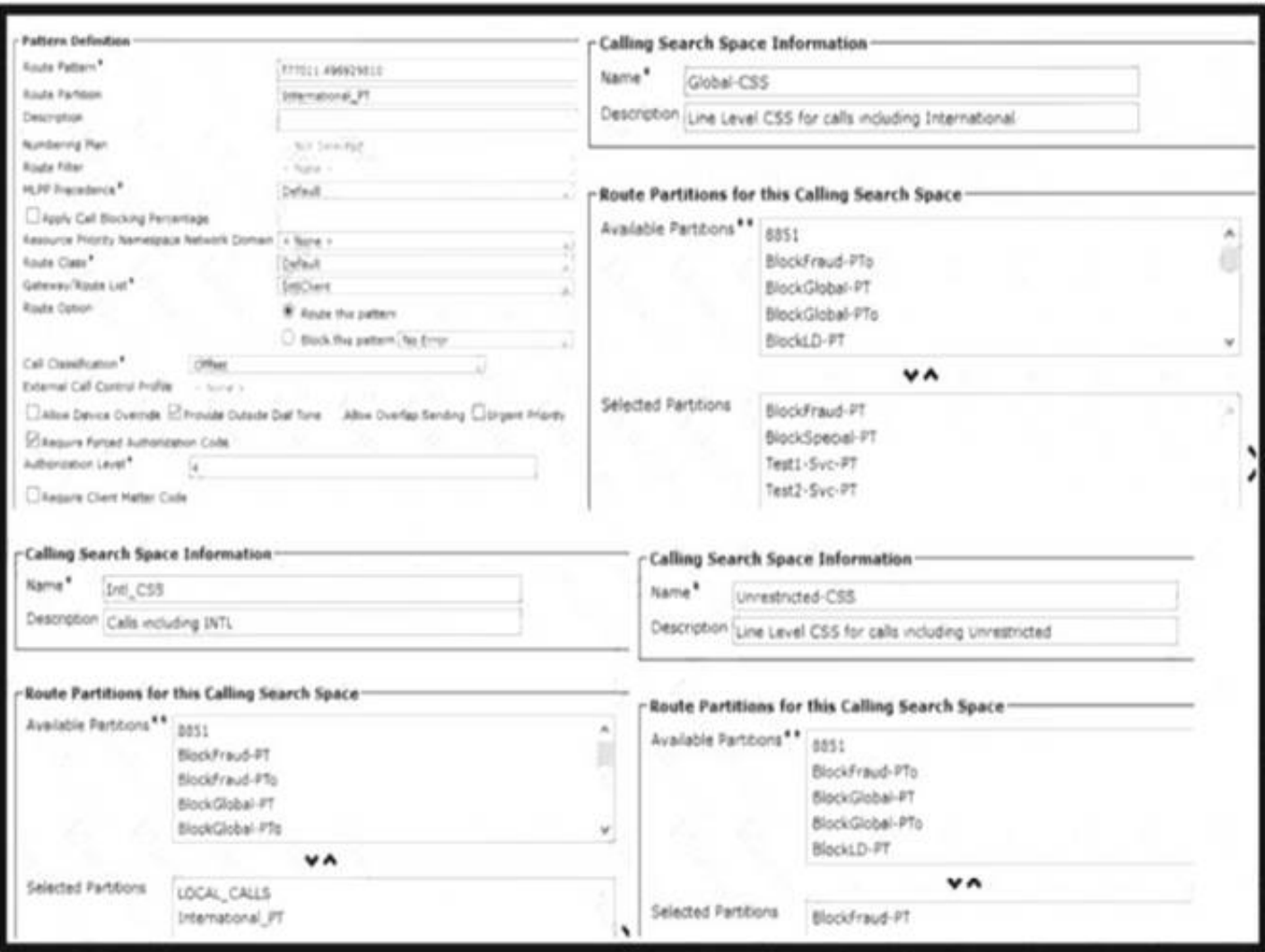
A collaboration engineer adds an analog gateway to a Cisco UCM cluster. The engineer chooses MGCP over SCCP as the gateway protocol. Which two actions ensure that the gateway registers? (Choose two.)

- A. Enter "no seep" on the gateway in configuration mode.
- B. Enter "ccm-manager mgcp" on the gateway in configuration mode.
- C. Enter "mgcp" on the gateway in configuration mode.
- D. Enter "ccm-manager config" on the gateway in configuration mode.
- E. Delete and re-add the gateway configuration in Cisco UCM.

Answer: BC

## NEW QUESTION 2

Refer to the exhibit.



The screenshot shows the Cisco UCM Configuration Tool interface. The 'Pattern Definition' section on the left shows a pattern 'E164 496929810' with a description 'International\_PT'. The 'Calling Search Space Information' section on the right shows a name 'Global-CSS' with a description 'Line Level CSS for calls including International'. The 'Route Partitions for this Calling Search Space' section shows a list of available partitions: '8851', 'BlockFraud-PT', 'BlockGlobal-PT', 'BlockGlobal-PT', and 'BlockLD-PT'. The 'Selected Partitions' section shows 'BlockFraud-PT', 'BlockSpecial-PT', 'Test1-Svc-PT', and 'Test2-Svc-PT'.

How must the +E.164 translation pattern be configured to reach international number 496929810?

- ☐ Pattern= \+.496929810, CSS=Unrestricted-CSS, PreDot, Prefix=777011
- ☐ Pattern= \+.777011496929810, CSS=IntI\_CSS
- ☐ Pattern= \+.011496929810, CSS=Global-CSS, PreDot, Prefix=777
- ☐ Pattern= \+.496929810, CSS=IntI\_CSS, PreDot, Prefix=777011

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

### NEW QUESTION 3

According to the QoS Baseline Model, drag and drop the applications from the left onto the Per-Hop Behavior values on the right.

voice	AF11
interactive video	CS2
bulk data	EF
call-signaling	AF31/CS3
network management	AF41

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

voice	interactive video
interactive video	network management
bulk data	voice
call-signaling	call-signaling
network management	bulk data

### NEW QUESTION 4

Refer to the exhibit.

```
C:\Users\CISCO>nslookup
Default Server: dns.example.com
Address: 192.168.100.1

> set type=SRV
> _collab-edge.tcp.example.com
Server: dns.example.com
Address: 192.168.100.1

Non-authoritative answer:
_collab-edge.tcp.example.com      SRV service location:
  priority      = 10
  weight        = 10
  port          = 8443
  svr hostname  = expe.example.com
```

You deploy Mobile and Remote Access for Jabber and discover that Jabber for Windows does not register to cisco Unified Communications Manager while outside

of the office. What is a cause of this issue?

- A. The DNS record should be created for \_cisco-uds.\_tcp example.com.
- B. The DNS record should be changed from \_collab-edge.\_tls example.com.
- C. The DNS record type should be changed from SRV to A.
- D. Server 4.2.2.2 is not a valid DNS server.

**Answer: B**

#### NEW QUESTION 5

Refer to the exhibit.

```
Sent:
INVITE sip:2004@192.168.100.100:5060 SIP/2.0
Via: SIP/2.0/UDP 192.168.100.200:5060;branch=z9hG4bKFI1FED
From: "7000" <sip:7000@192.168.100.200>;tag=43CDE-1A22
To: <sip:2004@192.168.100.100>
Call-ID: 26BCA00-4C4E11EA-80169514-B1C46126@192.168.100.200
Supported: 100rel,timer,resource-priority,replaces,sdp-anat
Min-SE: 1800
User-Agent: Cisco-SIPGateway/IOS-16.9.5
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER
CSeq: 101 INVITE
Contact: <sip:7000@192.168.100.200:5060>
Expires: 180
Max-Forwards: 68
P-Asserted-Identity: "7000" <sip:7000@192.168.100.200>
Session-Expires: 1800
Content-Type: application/sdp
Content-Length: 254

v=0
o=CiscoSystemsSIP-GW-UserAgent 5871 9974 IN IP4 192.168.100.200
s=SIP Call
c=IN IP4 192.168.100.200
t=0 0
m=audio 8002 RTP/SAVP 0
c=IN IP4 192.168.100.200
a=rtpmap:0 PCMU/8000
a=ptime:20
```

Calls to Cisco Unity Connection are failing across Cisco Unified Border Element when callers try to select a menu prompt Why is this happening and how is it fixed?

- A. Cisco Unity Connection is configured on G.729 onl
- B. Cisco Unity Connection must be reconfigured to support iLBC.
- C. Cisco Unified Border Element is not sending any support for DTM
- D. OTMF configuration must be added to the appropriate dial peer.
- E. Cisco Unified Border Element is sending the incorrect media IP address
- F. The IP address of the loopback interface must be advertised in the SDP
- G. The Cisco Unity Connection Call Handler is configured for a "Release to Switch" transfer type Transfers must be disabled for the Cisco Unity Connection Call Handler

**Answer: B**

#### NEW QUESTION 6

Which option must be used when configuring the Local Gateway for a Cisco Webex Calling trunk?

- A. local authentication
- B. certificate-based
- C. mutual TLS
- D. Auth-based

**Answer: B**

#### Explanation:

A certificate-based trunk is a type of trunk that uses certificates to authenticate the connection between Webex Calling and the Local Gateway<sup>1</sup>. A Local Gateway is a supported session border controller that terminates the trunk on the premises<sup>2</sup>. A certificate-based trunk requires a certificate authority (CA) to issue and manage the certificates for both Webex Calling and the Local Gateway<sup>1</sup>.

#### NEW QUESTION 7

An engineer configures a SIP trunk for MWI between a Cisco UCM cluster and Cisco Unity Connection. The Cisco UCM cluster fails to receive the SIP notify messages. Which two SIP trunk settings resolve this issue? (Choose two.)

- A. accept out-of-dialog refer
- B. accept out-of-band notification
- C. transmit security status
- D. allow changing header
- E. accept unsolicited notification

**Answer: AE**



#### NEW QUESTION 8

Which dial plan function restricts calls that are made by a lobby phone to internal extensions only?

- A. manipulation of dialed destination
- B. path selection
- C. calling privileges
- D. endpoint addressing

**Answer:** C

#### NEW QUESTION 9

Refer to the exhibit.

```
voice class codec 20
codec preference 1 g722-64
codec preference 2 ilbc mod 30
!
dial-peer voice 200 voip
destination-pattern ^408555...$
session target ipv4:10.2.3.4
incoming called-number 9T
dtmf-relay h245-alphanumeric rtp-nte
no vad
!
```

An administrator configured a codec preference list with G.722 and ILBC codecs. Which change must the administrator make in the dial-peer section of the configuration to use this list?

- A. add voice-codecs 20
- B. add session codec 20
- C. add codec preference 20
- D. add voice-class codec 20

**Answer:** D

#### NEW QUESTION 10

Which configuration concept allows for high-availability on IM and Presence services in a UC environment?

- A. IM and Presence subclusters (configured on Cisco UCM)
- B. Presence Redundancy Groups (configured on Cisco Unified IM and Presence)
- C. IM and Presence subclusters (configured on Cisco Unified IM and Presence)
- D. Presence Redundancy Groups (configured on Cisco UCM)

**Answer:** D

#### NEW QUESTION 10

An engineer is configuring a phone system CISCO UCM and wants to activate TFTP service. The engineer selects the serviceability page for configuration. Which nodes configurable for TFTP?

- A. any two nodes
- B. any node
- C. only nodes that have Cisco UCM service enabled
- D. any subscriber nodes

**Answer:** C

#### Explanation:

TFTP is a network protocol that is used to transfer files between devices. It is often used to transfer firmware and configuration files to network devices. In order to use TFTP, the device must have a TFTP server configured.

In Cisco UCM, the TFTP server is configured on the serviceability page. The TFTP server can be configured on any node that has Cisco UCM service enabled. The TFTP server cannot be configured on nodes that do not have Cisco UCM service enabled.

#### NEW QUESTION 13

An engineer is configuring Cisco Jabber for Windows and must implement desk phone control mode for some of the users. Which access control group must be configured for those users to enable this functionality?

- A. Allow Control of Device from CTI
- B. Standard CTI Secure Connection
- C. Standard CTI Enabled
- D. Standard CTI Allow Reception of SRTP Key Material

**Answer:** C

#### NEW QUESTION 14

An administrator is designing a new Cisco UCM for a company with many departments and firm structure on their communications policies. The administrator must

make sure that these communication policies are reflected in the phone system setup. Certain departments cannot be accessed directly, even if they have dedicated DID numbers. Some phones, especially public phones, must not be able to dial international numbers Which type of function is configured to control which device is allowed to call another device in Cisco UCM?

- A. partitions and calling search spaces
- B. calling patterns and route patterns
- C. regions and device pools
- D. links and pipes

**Answer:** A

#### NEW QUESTION 17

A remote office has a less-than-optimal WAN connection and experiences packet loss, delay and jitter. Which VoIP codec is used in this situation?

- A. G722.1
- B. iLBC
- C. G.711alaw
- D. G.729A

**Answer:** B

#### NEW QUESTION 20

What are two common attributes of XMPP XML stanzas? (Choase two.)

- A. from
- B. to
- C. destination
- D. version
- E. Source

**Answer:** AB

#### NEW QUESTION 25

Which command must be defined before an administrator changes the linecode value on an ISDN T1 PRI in slot 0/2 on an IOS-XE gateway?

- A. isdn incoming-voice voice
- B. pri-group timeslots 1-24
- C. card type t1 0 2
- D. voice-port 0/2/0:23

**Answer:** C

#### NEW QUESTION 26

If a phone needs to register with cucm1.cisco.com, which network service assists with the phone registration process?

- A. SNMP
- B. ICMP
- C. SMTP
- D. DNS

**Answer:** D

#### Explanation:

According to the Cisco Community website<sup>1</sup>, the phone uses DNS to resolve the hostname of the CUCM server (cucm1.cisco.com) to its IP address. DNS is a network service that translates domain names into IP addresses.

#### NEW QUESTION 29

Which SNMP service must be activated manually on the Cisco Unified Communications Manager after installation?

- A. Cisco CallManager SNMP
- B. SNMP Master Agent
- C. Connection SNMP Agent
- D. Host Resources Agent

**Answer:** A

#### NEW QUESTION 32

Which command in the MGCP gateway configuration defines the secondary Cisco UCM server?

- A. ccm-manager redundant-host
- B. ccm-manager fallback-mgcp
- C. mgcpapp
- D. mgcp call-agent

**Answer:** A

### NEW QUESTION 33

Which two features of Cisco Prime Collaboration Assurance require advanced licensing? (Choose two.)

- A. real time alarm browse
- B. multicluster support
- C. call quality monitoring
- D. email notifications
- E. customizable events

**Answer:** BC

### NEW QUESTION 34

During the Cisco IP Phone registration process, the TFTP download fails. What are two reasons for this issue? (Choose two.)

- A. The DNS server was not specified, which is needed to resolve the DHCP server IP address.
- B. Option 100 string was not specified, or an incorrect Option 100 string was specified.
- C. The Cisco IP Phone does not know the IP address of the TFTP server.
- D. The Cisco IP Phone does not know the IP address of any of the Cisco UCM Subscriber nodes.
- E. Option 150 string was not specified, or an incorrect Option 150 string was specified.

**Answer:** CE

### NEW QUESTION 35

When configuring Cisco UCM, which configuration enables phones to automatically reregister to a Cisco UCM publisher when the connection to the subscriber is lost?

- A. SRST
- B. Route Group
- C. Cisco UCM
- D. Device Pool

**Answer:** A

#### Explanation:

SRST, or Survivable Remote Site Telephony, is a feature that allows Cisco IP phones to continue to function even when the connection to the Cisco UCM publisher is lost. When SRST is configured, the phones will automatically reregister to the publisher when the connection is restored. Route groups are used to route calls to different destinations based on the caller's phone number or other criteria. Cisco UCM is the call management system that controls the IP phones. Device pools are used to group phones together for administrative purposes.

### NEW QUESTION 40

What should be used to detect common issues on a Cisco IOS XE-based Local Gateway and generate an email?

- A. Real-Time Monitoring Tool
- B. diagnostic signatures
- C. syslog
- D. SNMP

**Answer:** B

#### Explanation:

Diagnostic signatures are a feature that proactively detects commonly observed issues in the IOS XE-based Local Gateway and generates email, syslog, or terminal message notification of the event. You can also install the diagnostic signatures to automate diagnostics data collection and transfer collected data to the Cisco TAC case to accelerate resolution time.

### NEW QUESTION 45

Which Webex Calling construct is used to organize calling features within a physical site?

- A. client settings
- B. locations
- C. service settings
- D. call routing

**Answer:** B

#### Explanation:

A location is a physical site that contains users, devices, and resources. Locations are used to organize calling features within a physical site. For example, you can create a location for each of your offices and then assign users, devices, and resources to that location. This will allow you to manage calling features for each office separately.

### NEW QUESTION 49

An engineer is going to redesign a network, and while looking at the QoS configuration, the engineer sees that a portion of the network is marked with AF42. Which type of traffic is marked with this tag?

- A. signaling
- B. voice
- C. video conference
- D. streaming video

**Answer:** D

#### NEW QUESTION 50

On which protocol and port combination does Cisco Prime Collaboration receive notifications (Traps and InformRequests) from several network devices in the Collaboration infrastructure for which it has requested notifications?

- A. UDP161
- B. TCP 161
- C. UDP 162
- D. TCP 80

**Answer:** C

#### NEW QUESTION 53

Refer to the exhibit.

```
Via: SIP/2.0/TCP
10.10.10.2:5060;branch=a8bH5bK7954A198F
From:
<sip:012345678@10.10.10.2>;tag=8D79AF62-DB2
To: <sip:90123456@10.10.4.14>;
tag=811681~ffa80926-5fac-4cc5-b802-
2dbde74ae7w2-
v=0
o=CiscoSystemsCCM-SIP 811681 1 IN IP4
10.10.4.14
s=SIP Call
c=IN IP4 10.5.4.3
t=0 0
m=audio 27839 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

Which Codec is negotiated?

- A. G.729
- B. ILBC
- C. G.711ulaw
- D. G.728

**Answer:** C

#### NEW QUESTION 54

A customer wants to conduct B2B video calls with a partner using on-premises conferencing solution. Which two devices are needed to facilitate this request?

- A. Expressway-C
- B. Cisco Telepresence Management Suite
- C. Expressway-E
- D. MGCP gateway
- E. Cisco Unified Border Element

**Answer:** AC

#### NEW QUESTION 57

An administrator is trying to change the default LINECODE for a voice ISDN T1 PRI. Which command makes this change?

- A. linecode ami
- B. linecode b8zs
- C. linecode hdb3
- D. linecode esf

**Answer:** A

#### NEW QUESTION 60

An engineer configures a new phone in Cisco UCM. The phone boots and gets IP when it connects to the network, however the phone fails to register with Cisco UCM. The engineer observes that the phone has a status Rejected in Cisco UCM. What must be verified first when troubleshooting the issue?

- A. whether auto-registration is enabled in Cisco UCM
- B. whether the Initial Trust List and Certificate Trust List files on the phone are correct
- C. whether the phone is in the correct VLAN



D. whether the phone's MAC address is correct In Cisco UCM

**Answer:** A

**Explanation:**

This is the first thing that must be verified when troubleshooting the issue of phone status showing rejected in Cisco UCM1. Auto-registration allows new phones to register with Cisco UCM without manual configuration 1. If auto-registration is disabled, the phone will not be able to register and will show a rejected status. The other options are not the first things that must be verified when troubleshooting the issue:

➤ B. whether the Initial Trust List and Certificate Trust List files on the phone are correct is not the first thing to verify, but it may be a possible cause of the issue if the phone has an ITL file from another cluster that prevents it from registering with Cisco UCM2. To resolve this issue, the ITL file needs to be deleted from the phone or exchanged between the clusters2.

➤ C. whether the phone is in the correct VLAN is not the first thing to verify, but it may be a possible cause of the issue if the phone is not in the same VLAN as the Cisco UCM server or cannot reach it due to network issues3. To resolve this issue, the network connectivity and VLAN configuration need to be checked and fixed3.

➤ D. whether the phone's MAC address is correct in Cisco UCM is not the first thing to verify, but it may be a possible cause of the issue if the phone's MAC address does not match the one configured in Cisco UCM. To resolve this issue, the MAC address needs to be corrected and updated in Cisco UCM.

**NEW QUESTION 63**

Which location must be assigned to the SIP trunk to replicate enhanced location information via a SIP trunk?

- A. phantom
- B. replica
- C. hub\_none
- D. shadow

**Answer:** D

**NEW QUESTION 67**

Refer to the exhibit.

```
dial-peer voice 10 voip
    destination-pattern 1...
    session target ipv4:10.1.1.1
    no vad
```

An engineer configures a VoIP dial peer on a Cisco gateway. Which codec is used?

- A. G711alaw
- B. No codec is used (missing codec command)
- C. G.711ulaw
- D. G729r8

**Answer:** D

**NEW QUESTION 70**

An administrator is configuring a new Cisco UCM with PSTN capabilities. Due to bandwidth constraints, audio compression is used on the codec. DTMF must work as expected because the customer is calling many call centers where the users must select options in the call. Where is DTMF out-of-band in a CCM 12.5 with SIP-based gateway configured?

- A. in the DTMF setting under SIP profile on the Cisco Unified Border Element
- B. in the dial peer on the Cisco IOS router
- C. in regions on the Cisco UCM where the appropriate codec to use is set
- D. in DTMF settings in the audio codec preference list under regions in the Cisco UCM

**Answer:** B

**NEW QUESTION 74**

A company hosts a conference call with no local users. How does the administrator stop the conference from continuing?

- A. modifies the Drop Ad Hoc Conference service parameter
- B. modifies the Block OffNet to OffNet Transfer service parameter
- C. removes the transcoder
- D. changes the codecs that are supported on the conference resource

**Answer:** A

**NEW QUESTION 75**

Which two functions are provided by Cisco Expressway Series? (Choose two.)

- A. voice and video transcoding
- B. voice and video conferencing
- C. interworking of SIP and H.323
- D. intercluster extension mobility
- E. endpoint registration

**Answer:** AC

**Explanation:**

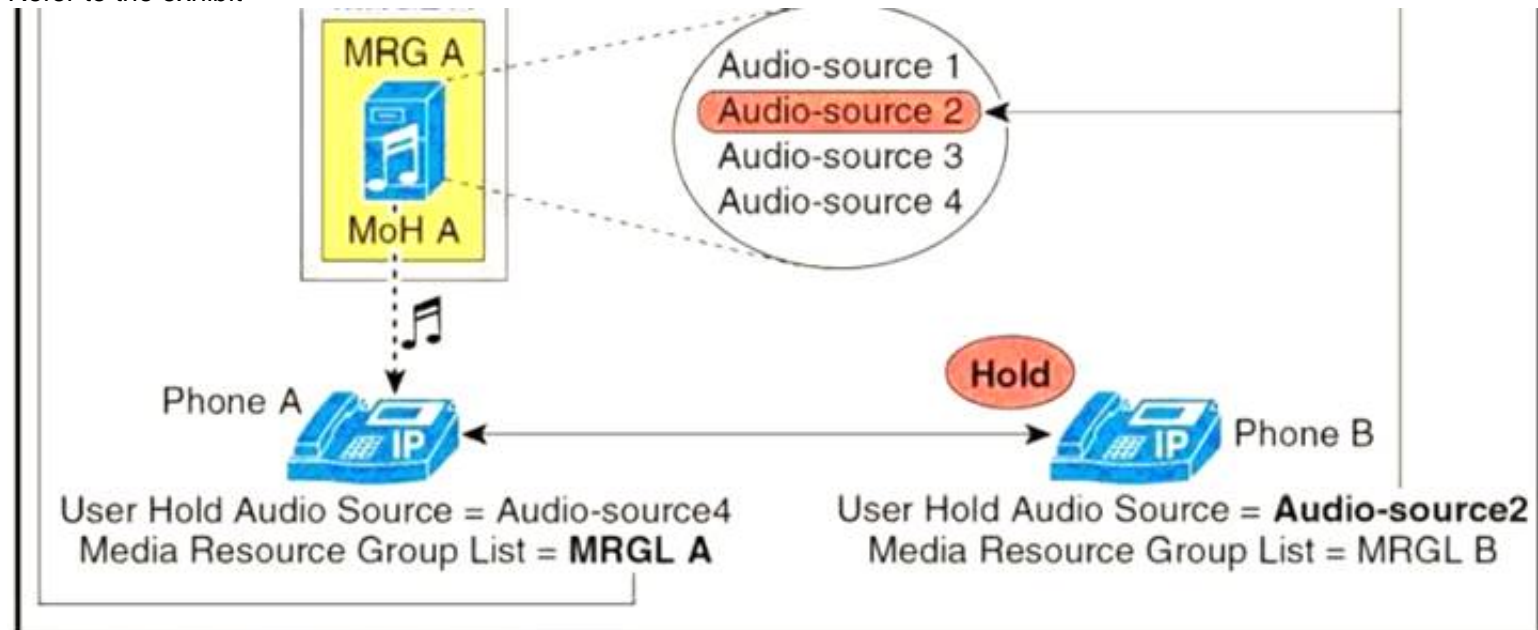
The Cisco Expressway Series provides the following functions:

- Voice and video transcoding
- Interworking of SIP and H.323
- Firewall traversal
- Session border controller (SBC) functionality
- Endpoint registration
- Call admission control (CAC)
- Quality of service (QoS)
- Security

The Cisco Expressway Series does not provide voice and video conferencing or intercluster extension mobility.

#### NEW QUESTION 76

Refer to the exhibit



There is a call flow between Phone A and Phone B Phone B (holder) places Phone A (holder) on hold Which MRGL and Audio Source are played to Phone A?

- A. MRGL A and Audio Source 4
- B. MRGL B and Audio Source 4
- C. MRGL A and Audio Source 2
- D. MRGL B and Audio Source 2

**Answer: C**

#### NEW QUESTION 79

What is the maximum number of servers that are in an IM and Presence presence redundancy group?

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

**Answer: C**

#### NEW QUESTION 82

An engineer with ID012345678 must build an international dial plan in Cisco UCM. Which action is taken when building a variable-length route pattern?

- A. configure single route pattern for international calls
- B. set up all international route patterns to 0.!
- C. reduce the T302 timer to less than 4 seconds
- D. create a second route pattern followed by the # wildcard

**Answer: D**

#### Explanation:

When building a variable-length route pattern, you need to create a second route pattern followed by the # wildcard. This will allow the user to indicate the end of the number by dialing #. For example, if you want to create a route pattern for international calls, you would create a route pattern like this: 9.011!#

This route pattern will match any number that starts with 9.011, followed by any number of digits, and then ends with #.

The other options are incorrect because:

- Configuring a single route pattern for international calls will not allow the user to indicate the end of the number.
- Reducing the T302 timer to less than 4 seconds will not allow the user to indicate the end of the number.

#### NEW QUESTION 87

An administrator has been asked to implement toll fraud prevention in Cisco UCM Which tool is used to begin this process?

- A. Cisco UCM class of service
- B. Cisco Unified Mobility
- C. Cisco UCM Access Control Group restrictions
- D. Cisco Unified Real-Time Monitoring Tool

Answer: A

#### NEW QUESTION 88

To provide high-quality voice and take advantage of the full voice feature set, which two access layer switches provide support?

- A. Use multiple egress queues to provide priority queuing of RTP voice packet streams and the ability to classify or reclassify traffic and establish a network trust boundary.
- B. Use 802, 1Q trunking and 802.1p for proper treatment of Layer 2 CoS packet marking on ports with phones connected.
- C. Implement IP RTP header compression on the serial Interface to reduce the bandwidth required per voice call on point-to-point links.
- D. Deploy RSVP to improve VoIP QoS only where it can have a positive impact on quality and functionality where there is limited bandwidth and frequent network congestion.
- E. Map audio and video streams of video calls (AF41 and AF42) to a class-based queue with weighted random early detection.

Answer: AB

#### NEW QUESTION 90

What is the purpose of Mobile and Remote Access (MRA) in the Cisco UCM architecture?

- A. MRA is used to access Webex cloud services only if authenticated with on-premises LDAP service.
- B. MRA is used to make secure PSTN calls by Cisco UCM only while on-premises authentication.
- C. MRA is used to make B2B calls through Expressway registration.
- D. MRA is used to access the collaboration services offered by Cisco UCM from off-premises network connections

Answer: D

#### NEW QUESTION 95

Refer to the exhibit.

```
ISDN Serial1:23 interface
    dsl 1, interface ISDN Switchtype =
primary-5ess
    Layer 1 Status:
        ACTIVE
    Layer 2 Status:
        TEI = 0, Ces = 1, SAPI = 0, State =
TEI_ASSIGNED
    Layer 3 Status:
        0 Active Layer 3 Call(s)
    Activated dsl 1 CCBs = 0
    The Free Channel Mask: 0x807FFFFF
    Total Allocated ISDN CCBs = 5
```

What causes the PRI issue?

- A. The controller shut down
- B. The cable is unplugged
- C. The framing is configured incorrectly
- D. The clock source is incorrect.

Answer: B

#### Explanation:

The show controller t1 command shows that the T1 interface is up but the line protocol is down. This indicates that the physical layer is working but the data link layer is not. The most likely cause of this is that the cable is unplugged.

#### NEW QUESTION 98

What are two reasons that AF41 is marked for the audio and video channels of a video call? (Choose two.)

- A. to prioritize video over other high -priority traffic classes
- B. to give video calls a higher priority than AP41 in the QoS policy
- C. to allow high-definition quality calls over low-speed links
- D. to preserve lip synchronization between the audio and video channels
- E. to provide separate classes for audio calls and video calls

Answer: DE

#### NEW QUESTION 100

Which external DNS SRV record must be present for Mobile and Remote Access?

- A. \_cisco-uds.Jcp.example.com
- B. \_collab-edge.\_tls.example.com
- C. \_collab-edge.\_tcp.example.com
- D. \_cisco-uds.\_tls.example.com

**Answer:** B

#### NEW QUESTION 101

An engineer is notified that the Cisco TelePresence MX800 that is registered in Cisco Unified communications Manager shows an empty panel, and the Touch 10 shows a corresponding icon with no action when pressed. Where does the engineer go to remove the inactive custom panel?

- A. The phone configuration page in CUCM Administration
- B. The SIP Trunk security profile page in CUCM Administration
- C. The software Upgrades page in CUCM OS Administration
- D. The In-Room control Editor on the webpage of the MX800

**Answer:** D

#### NEW QUESTION 102

The chief officer at a company must reduce collaboration infrastructure costs by onboarding all on-premises equipment to the cloud by using CISCO Webex Control Hub. Administrators need the ability to manage upgrades and set up hot desking for on-premises devices. Which action must be taken before on boarding devices by using the Control Hub?

- A. Configure the Control Hub organization ID on the devices
- B. Acquire a license for each device.
- C. Allow HTTP traffic from each device to Control Hub.
- D. Upgrade all the devices to software version CE9.15 or later

**Answer:** D

#### Explanation:

This is a prerequisite for using the Device Connector tool, which allows you to onboard and register several devices simultaneously to the Webex Control Hub1. The Device Connector tool creates a workspace, an activation code, and activates all of your devices in one go1. This way you don't need to be physically present in the same room to activate the devices.

The other options are not required before onboarding devices by using the Control Hub:

- Configuring the Control Hub organization ID on the devices is not necessary, as the Device Connector tool will send the device information to your Webex organization and generate activation codes for them 1.
- Acquiring a license for each device is not necessary, as you can assign licenses to users and devices after they are registered to the Webex Control Hub2.
- Allowing HTTP traffic from each device to Control Hub is not necessary, as HTTPS connectivity is required for the Device Connector tool to communicate with the devices1.

#### NEW QUESTION 103

An engineer must deploy the Cisco Web\* app to a Windows Virtual Desktop Infrastructure environment that has a roaming database named spark roaming\_store stored in a user's AppData\Roaming directory. Which two command line arguments must be used when running the installer? (Choose two.)

- A. ALLUSERS=0
- B. ENABLEVDI=1
- C. ALLUSERS=1
- D. ENABLEVDI=2
- E. ROAMINGENABLED=1

**Answer:** BE

#### Explanation:

The Cisco Webex app can be installed on a Windows Virtual Desktop Infrastructure (VDI) environment by using the following command-line arguments:

- ENABLEVDI=1 - This argument enables VDI mode for the Webex app.
- ROAMINGENABLED=1 - This argument enables roaming for the Webex app.

The ALLUSERS argument is not required when installing the Webex app on a VDI environment. The ENABLEVDI argument must be set to 1, and the ROAMINGENABLED argument must be set to 1.

The following is an example of the command that can be used to install the Webex app on a VDI environment:

Code snippet

```
msiexec /i WebexApp.msi ENABLEVDI=1 ROAMINGENABLED=1
```

#### NEW QUESTION 108

Which field is configured to change the caller ID information on a SIP route pattern?

- A. Route Partition
- B. Calling Party Transformation Mask
- C. Called Party Transformation Mask
- D. Connected Line ID Presentation

**Answer:** B

#### NEW QUESTION 109

An engineer implements QoS in the enterprise network. Which command is used to verify the classification and marking on a Cisco IOS switch?



- A. show class-map interface GigabitEthernet 1/0/1
- B. show policy-map interface GigabitEthernet 1/0/1
- C. show access-lists
- D. show policy-map

**Answer:** B

#### NEW QUESTION 114

A SIP phone has been configured in the system with MAC address 0030.96D2.D5CB. The phone retrieves the configuration file from the Cisco UCM. Which naming format is the file that is downloaded?

- A. SIP003096D2D5CB.cnf.xml
- B. SEP003096D2D5CB.cnf.xml
- C. SEP003096D2D5CB.cnf
- D. SIP003096D2D5CB.cnf

**Answer:** B

#### NEW QUESTION 117

An engineer wants to manually deploy a CISCO Webex DX80 Video endpoint to a remote user. Which type of provisioning is configured on the endpoint?

- A. Cisco Unified Border Element
- B. Cisco Unity Connection
- C. Cisco Meeting Server
- D. Edge

**Answer:** D

#### Explanation:

The Cisco Webex DX80 Video endpoint can be provisioned in two ways:

- Automatically, using the Cisco Unified Communications Manager (CUCM) or Cisco Video Communication Server (VCS)
- Manually, using the Edge provisioning mode

The Edge provisioning mode is used when the endpoint is not connected to the CUCM or VCS. In this mode, the endpoint is configured with the necessary settings, such as the IP address, SIP/H.323 parameters, and time and date.

The Cisco Unified Border Element (Cisco UBE) is a network element that provides security and call control for IP telephony networks. The Cisco Unity Connection is a unified messaging system that provides voicemail, email, and fax services. The Cisco Meeting Server is a video conferencing system that provides high-quality video and audio conferencing.

#### NEW QUESTION 119

An engineer implements a new Cisco UCM based telephony system per these requirements.

- The local Ethernet bandwidth is sized based on the total bandwidth per call
- A G 736 codec is used.
- The bit rate is 64 kbps
- The codec sample interval is 10 ms
- The voice payload size is 160 bytes per 20 ms

What should the size of the Ethernet bandwidth be per call?

- A. 31.2 kbps
- B. 38.4 kbps
- C. 55.2 kbps
- D. 87.2 kbps

**Answer:** D

#### NEW QUESTION 123

How are network devices monitored in a collaboration network?

- A. The Cisco Discovery Protocol table is shared among devices.
- B. Ping Sweep reports "unmanaged" state devices.
- C. System logs are collected in a Cisco Prime Collaboration Server.
- D. Simple Network Managed Protocol is enabled on each device to poll specific values periodically.

**Answer:** C

#### NEW QUESTION 126

An administrator configures the voicemail feature in a Cisco collaboration deployment. The user mailboxes must be configured when the Cisco Unity Connection server is configured. Which action accomplishes this task?

- A. Configure a SIP integration with Cisco UCM to sync users.
- B. Configure an SCCP integration with Cisco UCM.
- C. Configure an AXL server to access the Cisco UCM users.
- D. Configure an active directory to sync the users who will have a voicemail box.

**Answer:** C

#### NEW QUESTION 131

What are two functions of Cisco Expressway in the Collaboration Edge? (Choose two.)

- A. Expressway-C provides encryption (or Mobile and Remote Access but not (or business-to-business communications.
- B. The Expressway-C and Expressway-E pair can enable connectivity from the corporate network to the PSTN via a T1/E1 trunk.
- C. The Expressway-C and Expressway-E pair can interconnect H.323-to-SIP calls for voice.
- D. Expressway-E provides a VPN entry point for Cisco IP phones with a Cisco AnyConnect client using authentication based on certificates.
- E. Expressway-E provides a perimeter network that separates the enterprise network from the Internet.

**Answer:** CE

#### NEW QUESTION 132

Which version is used to provide encryption for SNMP management traffic in collaboration deployments?

- A. SNMPv1
- B. SNMPv3
- C. SNMPv2
- D. SNMPv2c

**Answer:** B

#### NEW QUESTION 133

A customer is deploying a SIP IOS gateway for a customer who requires that in-band DTMF relay is first priority and out-of-band DTMF relay is second priority. Which 10\$ entry sets the required priority?

- A. dtmf-relay cisco-rtp
- B. dtmf-relay sip-kpml cisco-rtp
- C. sip-notify dtmf-relay rtp-nte
- D. dtmf-relay rtp-nte sip-notify

**Answer:** D

#### NEW QUESTION 134

A Cisco UCM administrator sets up new route patterns to support phones in four different locations, all with local gateways. The administrator wants to use the same route pattern for all four locations. How must the system be configured to achieve this goal?

- A. Use CSS alternate routing rules.
- B. Use standard local route groups.
- C. Add a CSS to each local gateway.
- D. Use transforms in the route groups.

**Answer:** B

#### NEW QUESTION 135

Refer to the exhibit.

```
05:50:14.102: ISDN BR0/1/1 Q921: User TX -> IDREQ ri=21653 ai=127
05:50:14.134: ISDN BR0/1/1 Q921: User RX <- SABMEp sapi=0 tei=0
05:50:14.150: ISDN BR0/1/1 Q921: User TX -> IDREQ ri=19004 ai=127
05:50:14.165: ISDN BR0/1/1 Q921 User RX <- SABMEp sapi=0 tei=0
```

A customer submits this debug output, captured on a Cisco IOS router. Assuming that an MGCP gateway is configured with an ISDN BRI interface, which BRI changes resolve the issue?

- A. **interface BRI0/1/0**  
**no ip address**  
**isdn switch-type basic-net3**  
**isdn point-to-multipoint-setup**  
**isdn incoming-voice voice**  
**isdn send-alerting**  
**isdn static-tei 0**
- B. **interface BRI0/1/1**  
**no ip address**  
**isdn switch-type basic-net3**  
**isdn point-to-multipoint-setup**  
**isdn incoming-voice voice**  
**isdn send-alerting**  
**isdn static-tei 0**
- C.

```
interface BRI0/1/1
no ip address
isdn switch-type basic-net3
isdn point-to-point-setup
isdn incoming-voice voice
isdn send-alerting
isdn static-tei 0
```

D. 

```
interface BRI0/1/1
no ip address
isdn switch-type basic-net3
isdn incoming-voice voice
isdn send-alerting
isdn static-tei 0
```

**Answer:** C

#### NEW QUESTION 136

A network administrator deleted a user from the LDAP directory of a company. The end user shows as Inactive LDAP Synchronized User in Cisco UCM. Which step is next to remove this user from Cisco UCM?

- A. Delete the user directly from Cisco UCM.
- B. Wait 24 hours for the garbage collector to remove the user.
- C. Restart the Dirsync service after the user is deleted from LDAP directory.
- D. Execute a manual sync to refresh the local database and delete the end user.

**Answer:** B

#### NEW QUESTION 137

Which DiffServe PHB preserves backward compatibility with any IP precedence scheme?

- A. expedited forwarding
- B. class selector
- C. assured forwarding
- D. default

**Answer:** B

#### NEW QUESTION 138

A company wants to provide remote users with access to its on-premises Cisco collaboration features. Which components are required to enable Cisco Mobile and Remote Access for the users?

- A. Cisco Expressway-E, Cisco IM and Presence Server, and Cisco Video Communication Server
- B. Cisco Unified Border Element, Cisco IM and Presence Server and Cisco Video Communication Server
- C. Cisco Expressway-E, Cisco Expressway-C, and Cisco UCM
- D. Cisco Unified Border Element, Cisco UCM, and Cisco Video Communication Server

**Answer:** C

#### NEW QUESTION 143

A company deploys centralized cisco ucm architecture for a hub location and two remote sites.

\*The company has only one ITSP connection at the hub connection, and ITSP supports only G.711 calls

\*Remote site A has a 1-Gbps fiber connection to the hub connection and calls to and from remote side A use G.711 codec

\*Remote site B has a 1 T1 connection to the hub location and calls to and from remote site B use G.729 codec Based on the provided guidance, a Cisco voice engineer must design media resource management for the customer What is the method that needs to be followed?

- A. configure the hardware transcoder on the site B router
- B. configure the hardware transcoder on the site A router
- C. configure the hardware transcoder on the hub location router
- D. configure the software transcoder on Cisco UCM to support voice calls to and from both remote sites

**Answer:** C

#### NEW QUESTION 144

A customer asked to integrate Unity Connection with Cisco UCM using SIP protocol. Which two features must be enabled on SIP security profiles? (Choose two.)

- A. accept presence subscription
- B. allow changing header
- C. accept unsolicited notification
- D. enable application-level authorization
- E. accept replaces header

**Answer:** CE

#### NEW QUESTION 148

When multiple potential patterns are present, which two things are considered when Cisco UCM selects a destination pattern? (Choose two.)

- A. The pattern matches the shortest explicit prefix.
- B. The pattern does not match the dialed string.
- C. The pattern represents the smallest number of endpoints.
- D. The pattern matches the dialed string.
- E. The pattern represents the largest number of endpoints.

**Answer:** AD

#### NEW QUESTION 153

An administrator must make a pattern to route calls to two different destinations john.doe@company.com and jane.doe@company.com. Which type of patterns are needed in the Cisco UCM, and what must the pattern look like?

- A. A SIP route pattern that looks like the \*@company.com
- B. A SIP route pattern that looks like this company.com
- C. A regular route pattern with URI feature enable in the configuration page
- D. The pattern must look like this: (\*@company.com)
- E. A regular route pattern with URI feature enable in the configuration page
- F. The pattern must look like this: MATCH(\*@company.com)

**Answer:** C

#### NEW QUESTION 157

An engineer must configure DTMF relay on a Cisco Unified Border Element by using RFC2833 as the preferred relay mechanism and KPML as the next preferred relay mechanism. The engineer logs in to the CUBE and enters the dial-peer configuration level. Which command should be run at dial-peer configuration level?

- A. dtmf-relay sip-kvml rtp-nte
- B. dtmf-relay rtp-nte sip-kpml
- C. dtmf-relay sip-kpml rtp-inband
- D. dtmf-relay rtp-inband sip-kvml

**Answer:** B

#### Explanation:

The dtmf-relay command is used to configure DTMF relay on a Cisco Unified Border Element. The rtp-nte option specifies that RFC2833 is the preferred relay mechanism, and the sip-kpml option specifies that KPML is the next preferred relay mechanism.

#### NEW QUESTION 162

What are two characteristics of jitter in voice and video over IP communications? (Choose two.)

- A. The packets arrive with frame errors.
- B. The packets arrive at varying time intervals.
- C. The packets arrive out of sequence.
- D. The packets never arrive due to tail drop.
- E. The packets arrive at uniform time intervals.

**Answer:** BC

#### NEW QUESTION 165

Which task is required when configuring self-provisioning for an end user in Cisco UCM?

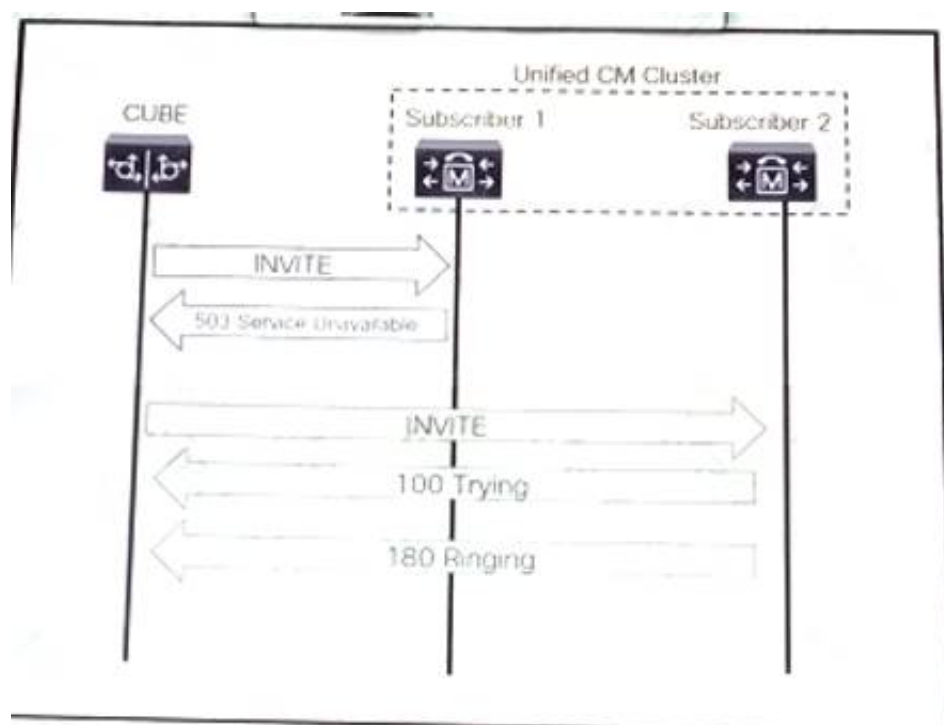
- A. Enable Auto-Registration.
- B. Associate the end user to the Standard CCM Super Users group
- C. Associate the end user to a SIP Profile.
- D. Disable Auto-Registration.

**Answer:** A

#### NEW QUESTION 167

Refer to the exhibit.





Cisco Unified element is attempting to establish a call with Subscribers1, but the call fails. Cisco Unified Border Element then retries the same call with Subscribers2, and the call proceeds normally.

Which action resolves the issue?

- A. Verify that the correct calling search space is selected for the inbound Calls section
- B. Verify that the run on all active United CM Nodes checkbox is enabled
- C. Verify that the Significant Digits field for inbound Calls is set to All.
- D. Verify that the PSTN Access checkbox is enabled.

**Answer: B**

#### NEW QUESTION 168

An engineer configures local route group names to simplify a dial plan. Where does the engineer set the route groups according to the local route group names that are configured?

- A. route list
- B. device pool
- C. CSS
- D. route pattern

**Answer: B**

#### NEW QUESTION 171

Which DSCP value and PHB equivalent are the default for audio calls?

- A. 48 and EF
- B. 34 and AF41
- C. 32 and AF41
- D. 32 and CS4

**Answer: A**

#### NEW QUESTION 172

What are two key features of the Expressway series? (Choose two.)

- A. VPN connection toward the internal UC resources
- B. SIP header modification
- C. B2B calls
- D. device registration over the Internet
- E. IP to PSTN call connectivity

**Answer: CD**

#### NEW QUESTION 173

Drag and drop the SNMPv3 message types from the left onto the corresponding definitions on the right.

TRAP	messages used to modify a value of an object variable
SET	unreliable messages that alert the SNMP manager to a condition on the network
GET	reliable messages that alert the SNMP manager to a condition on the network
INFORM	messages used to retrieve an object instance

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Table Description automatically generated

**NEW QUESTION 174**

What is a characteristic of video traffic that governs QoS requirements for video?

- A. Video is typically constant bit rate.  
B. Voice and video are the same, so they have the same QoS requirements.  
C. Voice and video traffic are different, but they have the same QoS requirements.  
D. Video is typically variable bit rate.

**Answer:** D

**NEW QUESTION 177**

An administrator executes the debug isdn q931 command while debugging a failed call. After a test call is placed, the logs return a disconnect cause code of 1. What is the cause of this problem?

- A. The media resource is unavailable.  
B. The destination number rejects the call.  
C. The destination number is busy.  
D. The dialed number is not assigned to an endpoint.

**Answer:** D

**NEW QUESTION 178**

What is a characteristic of a SIP endpoint configured in Cisco UCM with 'Use Trusted Relay Point' set to 'On'?

- A. It creates a trust relationship with the called party.  
B. It enables the Use Trusted Relay Point setting from the associated common device configuration.  
C. It enables Cisco UCM to insert an MTP or transcoder designated as a TRP.  
D. If TRP is allocated and MTP is also required for the endpoint  
E. calls fail.

**Answer:** C

**NEW QUESTION 181**

A collaboration engineer troubleshoots issues with a Cisco IP Phone 7800 Series. The IPv4 address of the phone is reachable via ICMP and HTTP, and the phone is registered to Cisco UCM However the engineer cannot reach the CU of the phone Which two actions in Cisco UCM resolve the issue? (Choose two)

- A. Enable SSH Access under Product Specific Configuration Layout in Cisco UCM  
B. Disable Web Access under Product Specific Configuration Layout in Cisco UCM  
C. Set a username and password under Secure Shell information in Cisco UCM  
D. Enable Settings Access under Product Specific Configuration Layout in Cisco UCM  
E. Enable FIPS Mode under Product Specific Configuration Layout in Cisco UCM

**Answer:** AB

**NEW QUESTION 183**

An engineer encounters third-party devices that do not support Cisco Discovery Protocol. What must be configured on the network to allow device discovery?

- A. LLDP

- B. TFTP
- C. LACP
- D. SNMP

**Answer:** A

**Explanation:**

LLDP (Link Layer Discovery Protocol) is a vendor-neutral network discovery protocol that is used to discover the topology of a network. LLDP is similar to CDP (Cisco Discovery Protocol), but it is not proprietary to Cisco. LLDP is supported by a wide range of network devices, including switches, routers, and firewalls. To configure LLDP on a network, you must enable LLDP on the devices that you want to discover. You can then use a network management tool, such as Cisco Network Assistant, to view the topology of the network.

The other options are incorrect. TFTP (Trivial File Transfer Protocol) is a network protocol that is used to transfer files between devices. LACP (Link Aggregation Control Protocol) is a network protocol that is used to aggregate multiple network links into a single logical link. SNMP (Simple Network Management Protocol) is a network protocol that is used to manage network devices.

**NEW QUESTION 187**

Which action prevent toll fraud in Cisco Unified Communication Manager?

- A. Configure ad hoc conference restriction
- B. Implement toll fraud restriction in the Cisco IOS router
- C. Allow off-net to off-net transfer
- D. Implement route patterns in Cisco Unified CM

**Answer:** A

**NEW QUESTION 188**

What is a capability of Cisco Expressway?

- A. It functions as an analog telephony adapter.
- B. It has remote endpoint enrollment with Certificate Authority Proxy Function.
- C. It gives directory access for remote users via Cisco Directory Integration.
- D. It provides access to on-premises Cisco Unified Communications infrastructure for remote endpoints.

**Answer:** D

**NEW QUESTION 192**

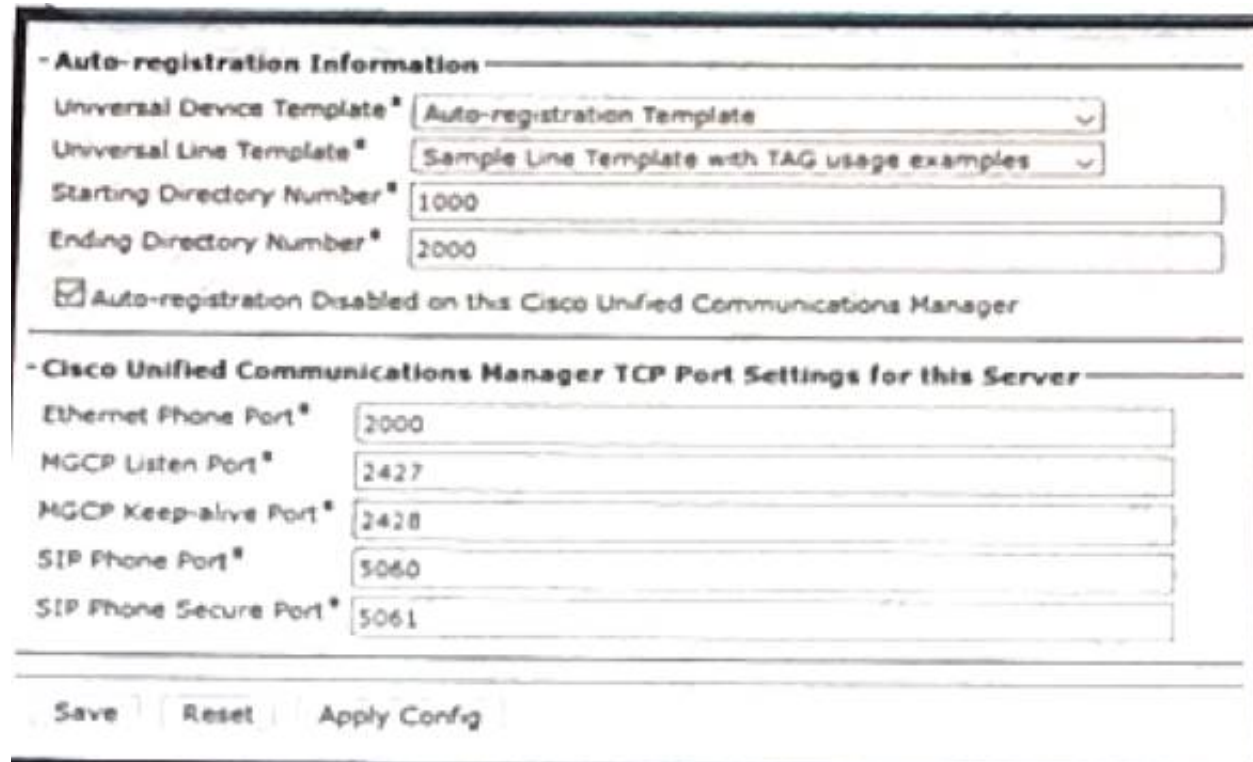
Which Cisco UCM configuration is required for SIP MWI integrations?

- A. Enable "Accept presence subscription" on the SIP Trunk Security Profile.
- B. Select "Redirecting Diversion Header Delivery - Outbound" on the SIP trunk.
- C. Enable "Accept unsolicited notification" on the SIP Trunk Security Profile.
- D. Select "Redirecting Diversion Header Delivery - Inbound" on the SIP trunk.

**Answer:** C

**NEW QUESTION 193**

Refer to the exhibit.



The screenshot shows the configuration page for a Cisco Unified Communications Manager server. It is divided into two main sections: "Auto-registration Information" and "Cisco Unified Communications Manager TCP Port Settings for this Server".

**Auto-registration Information:**

- Universal Device Template: Auto-registration Template (dropdown)
- Universal Line Template: Sample Line Template with TAG usage examples (dropdown)
- Starting Directory Number: 1000 (text field)
- Ending Directory Number: 2000 (text field)
- ☒ Auto-registration Disabled on this Cisco Unified Communications Manager (checkbox)

**Cisco Unified Communications Manager TCP Port Settings for this Server:**

- Ethernet Phone Port: 2000 (text field)
- MGCP Listen Port: 2427 (text field)
- MGCP Keep-alive Port: 2428 (text field)
- SIP Phone Port: 5060 (text field)
- SIP Phone Secure Port: 5061 (text field)

At the bottom, there are three buttons: "Save", "Reset", and "Apply Config".

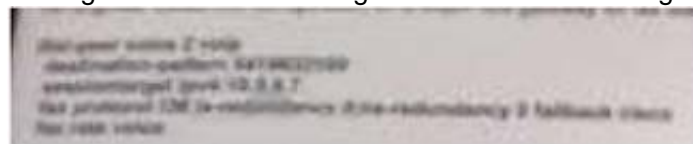
Which action must an engineer take to implement self-provisioning on a primary communications manager server?

- A. Select a different Universal Line Template.
- B. Change the SIP Phone Secure Port.
- C. Uncheck the auto-registration Disabled checkbox.
- D. Select a different Universal Device Template.

**Answer:** C

#### NEW QUESTION 198

An engineer builds the configuration on a Cisco IOS gateway for the dial-peers:



Which command is required to complete the configuration?

- A. Codec g726r32
- B. Codec g729cr81
- C. Codec g723ar63
- D. Codec g711ulaw

**Answer: D**

#### NEW QUESTION 202

An administrator is developing an 8-class QoS baseline model. The CS3 standards-based marking recommendation is used for which type of class?

- A. Scavenger
- B. best effort
- C. voice
- D. call signaling

**Answer: A**

#### NEW QUESTION 204

A company has an excessive number of call transfers to local and long-distance PSTN from Cisco Unity Connection voicemail. Which action in the Cisco Unity Connection restriction table resolves this issue?

- A. Block PSTN patterns on Default Transfers
- B. Default Outdial
- C. and Default System Transfer.
- D. Implement password complexity on voicemail boxes to prevent accounts from being compromised.
- E. Create a custom restriction table ?????????? and block it.
- F. Create a custom restriction table \*\*\*\*\* and block it.

**Answer: A**

#### NEW QUESTION 205

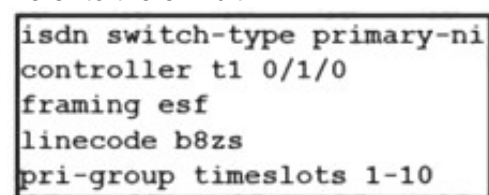
What is a description of the DiffServ model used for implementing QoS?

- A. AF41 has higher drop precedence than AF42, which has higher drop precedence than AF43.
- B. Voice and video calls are marked with different DSCP values and placed in different queues.
- C. AF43 has higher drop precedence than AF42 but lower drop precedence than AF41.
- D. RTP traffic from voice and video calls is marked EF and placed in the same queue.

**Answer: A**

#### NEW QUESTION 206

Refer to the exhibit.



An engineer configures ISDN on a voice gateway. The provider confirms that the PRI is configured with 10 channels the engineer ordered and is working from the provider side, but the engineer cannot get a B-channel to carry voice. The rest of the configuration for the serial interface and voice network is functioning correctly. Which actions must be taken to carry voice?

- A. The engineer must activate the controller card on the voice gateway before configuring the device.
- B. The engineer used a T1 interface but must use an E1 interface.
- C. The pri-group timeslots command must be 0-9 for the 10 channels because all values on a router start with 0.
- D. The engineer must manually revert the order of using the channels.

**Answer: A**

#### NEW QUESTION 208

Which QoS marking is used when an administrator configures voice call signaling?

- A. AF41
- B. CS3
- C. CS4
- D. EF

**Answer: B**



#### NEW QUESTION 212

An engineer troubleshoots outbound call failure on an ISDN-PRI circuit. The engineer is suspecting the "Incomplete Destination". Which debugs or commands are run in the voice gateway to troubleshoot the issue?

- A. debug isdn q921term mon
- B. debug voip ecap inout show controller ti
- C. debug isdn q931 show isdn status
- D. debug isdn q921 debug voip ecap inout

**Answer:** C

#### Explanation:

The engineer should run the following debugs or commands in the voice gateway to troubleshoot the issue: ➤ debug isdn q931 - This debug will show the ISDN Q.931 messages that are being exchanged between the voice gateway and the ISDN switch. This can be used to identify the cause of the "Incomplete Destination" error.

➤ show isdn status - This command will show the status of the ISDN PRI circuit. This can be used to verify that the circuit is up and running.

The other options are not correct. The debug isdn q921 command will show the ISDN Q.921 messages that are being exchanged between the voice gateway and the ISDN switch. This is not necessary for troubleshooting the issue. The term mon command will show the terminal monitor output. This is not necessary for troubleshooting the issue. The debug voip ecap inout command will show the VoIP ECAP messages that are being exchanged between the voice gateway and the VoIP server. This is not necessary for troubleshooting the issue. The show controller ti command will show the status of the T1 controller. This is not necessary for troubleshooting the issue.

#### NEW QUESTION 217

An engineer must enable onboarding of on-premises devices by using activation to a Cisco UCM server. The engineer activated the Cisco Device Activation Service and set the default registration method to use the codes. Which action completes the configuration?

- A. Set Enable Activation Code enterprise parameter to True
- B. Manually provision new phones that have an activation code requirement
- C. Create a Bulk Administration Tool provisioning template.
- D. Generate 16-digit codes by using the Bulk Administration Tool

**Answer:** A

#### Explanation:

The engineer must set the Enable Activation Code enterprise parameter to True. This will enable the use of activation codes for onboarding on-premises devices to a Cisco UCM server. The other options are not necessary to complete the configuration.

Here are the steps to complete the configuration:

- Log in to the Cisco Unified Communications Manager (CUCM) Administration interface.
- Go to System > Enterprise Parameters.
- Set the Enable Activation Code enterprise parameter to True.
- Click Save.

The activation code onboarding feature is now enabled. You can use it to onboard new phones to the CUCM server.

#### NEW QUESTION 220

Which two steps should be taken to provision a phone after the Self-Provisioning feature was configured for end users? (Choose two.)

- A. Ask the Cisco UCM administrator to associate the phone to an end user.
- B. Plug the phone into the network.
- C. Dial the hunt pilot extension and associate the phone to an end user.
- D. Dial the self-provisioning IVR extension and associate the phone to an end user.
- E. Enter settings menu on the phone and press \*,\*,# (star, star, pound).

**Answer:** BD

#### NEW QUESTION 222

A company's employees have been complaining that they have been unable to select options on the internal IVR of the help desk. IT support has been given Cisco UCM traces and below is the snippet of the SDP of the INVITE packet.

```
m=audio 25268 RTP/AVP 18 101
a=rtpmap:0 PCMU/8000
a=rtpmap:18 G729/8000
a=ptime:20
a=fmtp:18 annexb=no
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

How is this issue resolved?

- A. Configure CODEC for G.729.
- B. Configure DTMF for KPML.
- C. Configure CODEC for G.722.
- D. Configure DTMF for RFC 2833.

**Answer:** B

#### NEW QUESTION 223

Cisco UCM delays routing of a call during digit analysis with an overlapping dial plan. How long is the default wait time?

- A. 5 seconds
- B. 10 seconds
- C. 15 seconds
- D. 20 seconds

**Answer:** C

#### NEW QUESTION 224

A Cisco Unity Connection Administrator must set a voice mailbox so that it is accessed from a secondary device. Which configuration on the voice mailbox makes this change?

- A. Attempt Forward routing rule
- B. Mobile User
- C. Alternate Extensions
- D. Alternate Names

**Answer:** C

#### NEW QUESTION 227

An administrator troubleshoots call flows and suspects that there are issues with the dial plan. Which tool enables a quick analysis of the dial plan and provides call flows of dialled digits?

- A. Cisco Dial Plan Analyzer
- B. Dial Plan Analyzer
- C. Digit Analysis Analyzer
- D. Dialed Number Analyzer

**Answer:** D

#### NEW QUESTION 232

Which two DNS records must be created to configure Service Discovery for on-premises Jabber? (Choose two.)

- A. \_cisco-uds.\_tls.cisco.com pointing to the IP address of Cisco UCM
- B. \_cuplogin\_tcp.cisco.com pointing to a record of IM and Presence
- C. \_cuplogin.\_tls.cisco.com pointing to the IP address of IM and Presence
- D. \_cisco-uds.tcp.cisco.com pointing to a record of Cisco UCM
- E. \_xmpp.tls.cisco.com pointing to a record of IM and Presence

**Answer:** BD

#### NEW QUESTION 234

Refer to the exhibit. An engineer is confining class of control for a user in Cisco UCM. Which change will ensure that the user is unable to call 2143?

- A. Change line partition to Partition\_A
- B. Change line CSS to only contain Partition\_B
- C. Set the user's line CSS to <None>
- D. Set the user's device CSS to <None>

**Answer:** D

#### NEW QUESTION 239

Which two technical reasons make QoS a necessity in a video deployment? (Choose Two)

- A. Low response time between endpoints
- B. Provisioned bandwidth of the link
- C. Variable bit rate of the video stream
- D. Bursly behavior of video traffic

**Answer:** CD

#### NEW QUESTION 242

When a remote office location is set up with limited bandwidth resources, which codec would allow the most voice calls with the limited bandwidth?

- A. G.722
- B. G.711
- C. G.729
- D. G.723

**Answer:** C

#### NEW QUESTION 243

An engineer configures Cisco UCM to prevent toll fraud. At which two points does the engineer block the pattern in Cisco UCM to complete this task? (Choose two.)

- A. partition

- B. route partem
- C. translation pattern
- D. CSS
- E. route group

**Answer:** AD

#### NEW QUESTION 244

Why does Cisco UCM use DNS?

- A. It provides certificate-based security for media
- B. It resolves FQDN to IP address resolution for trunks
- C. it connects endpoints to single sign-on services.
- D. It provides SRV resolution to the endpoints registered

**Answer:** D

#### NEW QUESTION 249

Which DSCP marking is represented as 101110 in an IP header?

- A. EF
- B. CS3
- C. AF41
- D. AF31

**Answer:** A

#### NEW QUESTION 254

When setting a new primary DNS server in the Cisco UCM CLI what is required for the change to take affect?

- A. restart of CallManager service
- B. restart of DirSync service
- C. restart of the network service
- D. restart of TFTP service

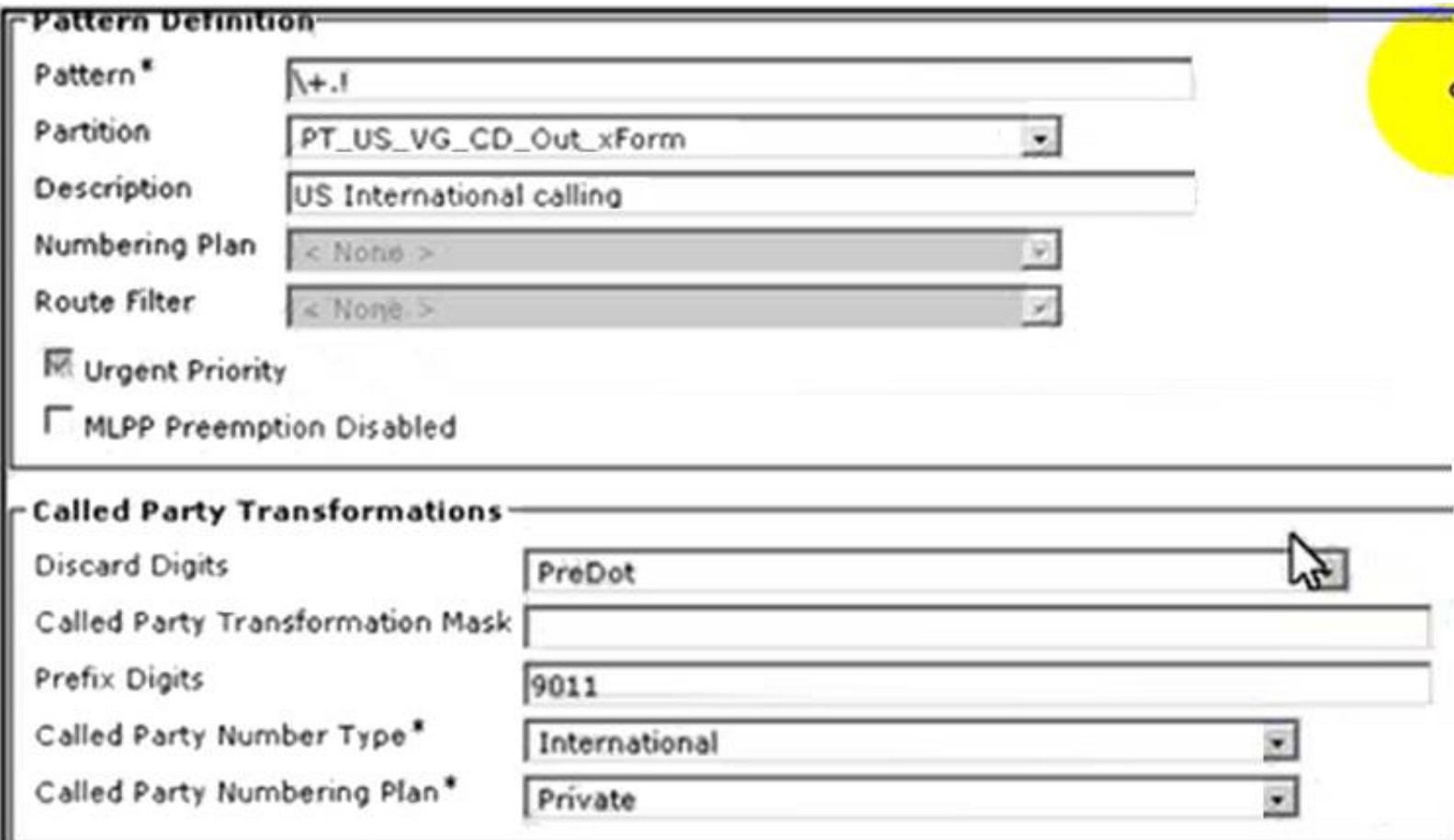
**Answer:** C

#### NEW QUESTION 255

Given this H.323 gateway configuration and using Cisco best practices, how must the called party transformation pattern be configured to ensure that a proper ISDN type of number is set?

```
voice translation-rule 40
 rule 1 /3...$/ /408555&/
!
voice translation-profile INT
 translate calling 40
!
dial-peer voice 9011 pots
 translation-profile outgoing INT
 destination-pattern 9011T
 port 0/1/0:23
```

A.



B.

**Pattern Definition**

Pattern\*

Partition

Description

Numbering Plan

Route Filter

☒ Urgent Priority

☐ MLPP Preemption Disabled

---

**Called Party Transformations**

Discard Digits

Called Party Transformation Mask

Prefix Digits

Called Party Number Type\*

Called Party Numbering Plan\*

**Pattern Definition**

Pattern\*

Partition

Description

Numbering Plan

Route Filter

☒ Urgent Priority

☐ MLPP Preemption Disabled

---

**Called Party Transformations**

Discard Digits

Called Party Transformation Mask

Prefix Digits

Called Party Number Type\*

Called Party Numbering Plan\*

**Pattern Definition**

Pattern\*

Partition

Description

Numbering Plan

Route Filter

☒ Urgent Priority

☐ MLPP Preemption Disabled

---

**Called Party Transformations**

Discard Digits

Called Party Transformation Mask

Prefix Digits

Called Party Number Type\*

Called Party Numbering Plan\*



Answer: C

#### NEW QUESTION 260

An administrator installed a Cisco Unified IP 8831 Conference Phone that is failing to register. Which two actions should be taken to troubleshoot the problem? (Choose two.)

- A. Verify that the switch port of the phone is enabled.
- B. Verify that the RJ-11 cable is plugged into the PC port.
- C. Disable HSRP on the access layer switch.
- D. Check the RJ-65 cable.
- E. Verify that the phone's network can access the option 150 server.

Answer: AE

#### NEW QUESTION 265

Refer to the exhibit.

```
Voice class codec 1
codec preference 1 g711alaw
codec preference 2 g711ulaw
codec preference 3 g729r8

dial-peer voice 13 voip
description incoming dialpeer from ITSP
incoming called-number .
voice-class codec 1

dial-peer voice 19 voip
description outgoing dialpeer to CUCM
destination-pattern T
session protocol sipv2
session-target ipv4.3.3.3
voice-class codec 1

Incoming SDP from ITSP

v=0
o=sip:test@2.2.2.1 16 IN IP4 2.2.2.2
s=sip:test@2.2.2.2
c=IN IP4 2.2.2.2
t=0 0
m=audio 5000 RTP/AVP 18 0
a=rtpmap:0 PCMU/8000/1
a=rtpmap:18 G729/8000/1
```

Which outgoing m-line SDP is sent to Cisco UCM after matching the appropriate dial peers via Cisco Unified Border Element?

- A. 

```
m=audio 16550 RTP/AVP 8 0 18
a=rtpmap:0 PCMU/8000/1
a=rtpmap:8 PCMA/8000/1
a=rtpmap:18 G729/8000/1
```
- B. 

```
m=audio 16550 RTP/AVP 18 0
a=rtpmap:0 PCMU/8000/1
a=rtpmap:18 G729/8000/1
```
- C. 

```
m=audio 16550 RTP/AVP 18 0
a=rtpmap:8 PCMA/8000/1
a=rtpmap:0 PCMU/8000/1
a=rtpmap:18 G729/8000/1
```
- D. 

```
m=audio 16550 RTP/AVP 0 8 18
a=rtpmap:0 PCMU/8000/1
a=rtpmap:8 PCMA/8000/1
a=rtpmap:18 G729/8000/1
```

Answer: B

#### NEW QUESTION 267

An administrator is configuring LDAP for Cisco UCM with Active Directory integration. A customer has requested to use "ipphone" instead of "telephoneNumber" as the phone number attribute. Where does the administrator specify this attribute mapping in Cisco UCM?

- A. LDAP Custom Filter
- B. LDAP Directory user fields
- C. LDAP Directory custom user fields
- D. LDAP Authentication

Answer: B

#### NEW QUESTION 271

Refer to the exhibit.

```

Server: Cisco-SIPGateway/1.0.0.0
CSeq: 101 OPTIONS
Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY,
INFO, REGISTER
Allow-Events: telephone-event
Accept: application/sdp
Supported: 100rel, timer, resource-priority, replaces, sdp-anat
Content-Type: application/sdp
Content-Length: 369

v=0
o=CiscoSystemsSIP-GW-UserAgent 6414 4717 IN IP4 10.8.140.23
s=SIP Call
c=IN IP4 10.8.140.23
t=0 0
m=audio 0 RTP/AVP 18 0 8 4 15
c=IN IP4 10.8.140.23
m=image 0 udptl t38
c=IN IP4 10.8.140.23
a=T38FaxVersion:0
a=T38FaxMaxBitRate:9600
a=T38FaxRateManagement:transferredTCF
a=T38FaxMaxBuffer:200
a=T38FaxMaxDatagram:320
a=T38FaxUdpEC:t38UDPRedundancy
    
```

A customer wants the SIP 200 OK shown to advertise codecs in the following order:

```

v=0
o=CiscoSystemsSIP-GW-UserAgent 6414 4717 IN IP4 10.8.140.23
s=SIP Call
c=IN IP4 10.8.140.23
t=0 0
m=audio 0 RTP/AVP 18 0 8 4 15
c=IN IP4 10.8.140.23
m=image 0 udptl t38
c=IN IP4 10.8.140.23
a=T38FaxVersion:0
a=T38FaxMaxBitRate:9600
a=T38FaxRateManagement:transferredTCF
a=T38FaxMaxBuffer:200
a=T38FaxMaxDatagram:320
a=T38FaxUdpEC:t38UDPRedundancy
    
```

After correcting the codec preferences. What should the audio payload show in the SIP Traces?

- ☒ m=audio 0 RTP/AVP 0 18 8 4 15
- ☐ m=audio 0 RTP/AVP 4 0 8 18 15
- ☐ m=audio 0 RTP/AVP 0 8 10 4 15
- ☐ m=audio 0 RTP/AVP 18 0 8 4 15

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: D**

#### NEW QUESTION 273

A Cisco Telepresence SX80 suddenly has issues displaying main video to a display over HDMI. Which command can you use from the SX80 admin CLI to check the video output status to the monitor?

- A. xStatus HDMI Output
- B. xStatus video Output
- C. xconfiguration video Output
- D. xcommand video status

**Answer: B**

#### NEW QUESTION 276

Refer to the exhibit.

```
Endpoint A:
m=audio 21796 RTP/AVP 108 9 104 105 101
b=TIAS:64000
a=extmap:14 http://protocols.cisco.com/timestamp#100us
a=rtpmap:108 MP4A-LATM/90000
a=fmtp:108 bitrate=64000;profile-level-id=24;object=23
a=rtpmap:9 G722/8000
a=rtpmap:104 G7221/16000
a=fmtp:104 bitrate=32000
a=rtpmap:105 G7221/16000
a=fmtp:105 bitrate=24000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=trafficclass:conversational.audio.immersive.aq:admitted
```

```
Endpoint B:
m=audio 21796 RTP/AVP 105 0 8 18 101
b=TIAS:64000
a=extmap:14 http://protocols.cisco.com/timestamp#100us
a=rtpmap:105 G7221/16000
a=fmtp:105 bitrate=24000
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=fmtp:18 annexb=no
a=rtpmap:101 telephone-event/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=trafficclass:conversational.audio.immersive.aq:admitted
```

Endpoint A calls endpoint B. What is the only audio codec that is used for the call?

- A. G722/8000
- B. Telephone-event/8000
- C. G7221/16000
- D. PCMA/8000

**Answer:** C

#### NEW QUESTION 279

An engineer is integrating Unity Connection with Cisco UCM. Which two actions must be configured so that recording and playback from the IP phones works at all times, including peak traffic hours? (Choose two.)

- A. Increase the number of voice ports.
- B. If it's a Unity Connection Cluster, ensure that replication is fine and not in split-brain mode.
- C. The phone system to which the phones are registered in Unity Connection has the Default Trap Switch check box enabled.
- D. Add dedicated dial-out ports with the allow trap connections setting selected.
- E. Ensure that you have set up SIP Digest Authentication on the SIP trunk security profile.

**Answer:** AC

#### NEW QUESTION 281

What is a capability of the call forwarding feature in a Cisco Webex dial plan?

- A. device pool selection
- B. Call Admission Control
- C. business continuity
- D. ringtone selection

**Answer:** C

#### Explanation:





Call forwarding is a feature that allows users to forward incoming calls to another number. This can be useful in a number of situations, such as when a user is not available to take a call, or when a user wants to forward calls to a different number during certain times of the day.

Call forwarding can be used to improve business continuity by ensuring that calls are always answered, even if the user is not available. For example, if a user is out of the office, they can forward their calls to their voicemail or to another employee. This ensures that customers and clients can always reach someone, even if the user is not available.

#### NEW QUESTION 285


Refer to the exhibit.

### DHCP Server Configuration

 Save
  Delete
  Copy
  Add New

---

**Status**

 Add successful

---

**DHCP Server Information**

Host Server *	192.168.10.240
Primary DNS IPv4 Address	192.168.99.
Secondary DNS IPv4 Address	
Primary TFTP Server IPv4 Address (Option 150)	192.168.10.244
Secondary TFTP Server IPv4 Address (Option 150)	
Bootstrap Server IPv4 Address	
Domain Name	
TFTP Server Name (Option 66)	
ARP Cache Timeout (sec) *	0
IP Address Lease Time (sec) *	0
Renewal (T1) Time (sec) *	0
Rebinding (T2) Time (sec) *	0

Save

Delete

Copy

Add New

A collaboration engineer configures Cisco UCM to act as a DHCP server. What must be done next to configure the DHCP server?

- A. Restart the Cisco DHCP Monitor Service under Cisco Unified Serviceability
- B. Add the new DHCP server to the primary DNS server
- C. Restart the TFTP service under Cisco Unified Serviceability.
- D. Add a DHCP subnet to the DHCP server under Cisco UCM Administration.

**Answer:** D

#### NEW QUESTION 286

Refer to the exhibit.

```
admin:utils ntp status
ntpd (pid 17428) is running...
```

remote	refid	st	t	when	poll	reach	delay	offset	jitter
*192.168.1.1	17.253.14.125	2	u	36	64	377	0.435	0.039	0.047
192.168.1.2	.INIT.	16	u	-	64	0	0.000	0.000	0.000

A collaboration engineer adds a redundant NTP server to an existing Cisco Collaboration solution On the Cisco UCM OS Administration page, the new NTP server shows as "Not Accessible" Which action resolves this issue?

- A. Restart NTPD on the Cisco UCM server.
- B. Delete and re-add the new NTP server via the Cisco UCM command-line interface
- C. Start the NTP service on the new NTP server
- D. Configure the "reach" value as "377" for the new NTP server.

**Answer:** C

#### NEW QUESTION 288

What are the predefined call handlers in Cisco Unity Connection?

- A. opening greeting, welcome, and default system
- B. caller input, greetings, and transfer
- C. greetings, operator, and closed
- D. opening greeting, operator, and goodbye

**Answer:** D

#### NEW QUESTION 291

What are the last two bits of a DS field in DiffServe Byte used for?

- A. INC
- B. AFxy
- C. ECN
- D. RMI

**Answer:** C



**NEW QUESTION 296**

An engineer configures a Cisco Unified Border Element and must ensure that the codecs negotiated meet the ITSP requirements. The ITSP supports G.711ulaw and G.729 for audio and H.264 for video. The preferred voice codec is G.711. Which configuration meets this requirement?

A.

```
voice class codec 10
  codec preference 1 g711ulaw
  codec preference 2 g729r8

dial-peer voice 101 voip
  session protocol sipv2
  destination e164-pattern-map 1
  voice-class codec 10
```

B.

```
voice class codec 10
  codec preference 1 g729r8
  codec preference 2 g711ulaw
  video codec h264

dial-peer voice 101 voip
  session protocol sipv2
  destination e164-pattern-map 1
  voice-class codec 10
```

C.

```
voice class codec 10
  codec preference 1 g711ulaw
  codec preference 2 g729r8
  video codec h264

dial-peer voice 101 voip
  session protocol sipv2
  destination e164-pattern-map 1
  voice-class codec 100
```

D.

```
voice class codec 10
  codec preference 1 g711ulaw
  codec preference 2 g729r8
  video codec h264

dial-peer voice 101 voip
  session protocol sipv2
  destination e164-pattern-map 1
  voice-class codec 10
```

**Answer: D****NEW QUESTION 300**

Refer to the exhibit.



**Answer:** A

#### NEW QUESTION 309

An administrator configures international calling on a Cisco UCM cluster and wants to minimize the number of route patterns that are needed. Which route pattern enables the administrator to match variable-length numbers?

- A. 9.011#
- B. 9.011@
- C. 9.011!
- D. 9.011\*

**Answer:** C

#### NEW QUESTION 310

Users want their mobile phones to be able to access their cisco unity connection mailboxes with only having to enter their voicemail pin at the login prompt calling pilot number where should an engineer configure this feature?

- A. transfer rules
- B. message settings
- C. alternate extensions
- D. greetings

**Answer:** C

#### NEW QUESTION 312

An engineer deploys a Cisco Expressway-E server for a customer who wants to utilize all features on the server. Which feature does the engineer configure on the Expressway-E?

- A. H.323 endpoint registrations
- B. Mobile and Remote Access
- C. SIP gateway for PSTN providers
- D. VTC bridge

**Answer:** A

#### NEW QUESTION 313

An administrator installs a new Cisco TelePresence video endpoint and receives this error:"AOR is not permitted by Allow/Deny list. Which action should be taken to resolve this problem?

- A. Reboot the VCS server and attempt reregistration.
- B. Change the SIP trunk configuration.
- C. Correct the restriction policy settings.
- D. Upload a new policy in VCS.

**Answer:** C

#### Explanation:

The error message "AOR is not permitted by Allow/Deny list" indicates that the endpoint is not allowed to register with the VCS server because it is not on the Allow List or it is on the Deny List. To resolve this problem, you must correct the restriction policy settings.

#### NEW QUESTION 315

A Cisco IP Phone 7841 that is registered to a Cisco Unified Communications Manager with default configuration receives a call setup message. Which codec is negotiated when the SDP offer includes this line of text?

M=audio 498181 RTP/AVP 0 8 97

- A. G.711ulaw
- B. iLBC
- C. G.711alaw
- D. G.722

**Answer:** A

#### Explanation:

The SDP offer includes the following line of text: M=audio 498181 RTP/AVP 0 8 97

This line of text indicates that the following codecs are available:

- 0: G.711ulaw
- 8: G.711alaw
- 97: iLBC

The Cisco IP Phone 7841 is registered to a Cisco Unified Communications Manager with default configuration. This means that the phone will negotiate the G.711ulaw codec.

The G.711ulaw codec is a standard codec that is used for voice communication. It is a low-bandwidth codec that provides good quality.

The iLBC codec is a newer codec that is designed for use in low-bandwidth environments. It provides good quality, but it is not as widely supported as the G.711ulaw codec.

The G.722 codec is a high-quality codec that is used for voice communication. It provides excellent quality, but it requires more bandwidth than the G.711ulaw codec.

#### NEW QUESTION 318

An engineer must configure switch port 5/1 to send CDP packets to configure an attached Cisco IP phone to trust tagged traffic on it's access port. Which command is required to complete the configuration?

```
Router# configure terminal
Router(config)# interface gigabitethernet 5/1
Router config-if)# description Cube E41.228-0097
```

- A. platform qos trust extend cos 3
- B. platform qos trust extend
- C. platform qos extend trust
- D. platform qos trust extend cos 5

**Answer:** B

#### NEW QUESTION 321

.....



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