



**Vendor:** Cisco

**Exam Code:** 300-820

**Exam Name:** Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)

**Version:** DEMO

### QUESTION 1

In a Mobile and Remote Access deployment, where must communications be encrypted with TLS?

- A. Cisco Expressway-E and endpoints outside the enterprise
- B. Cisco Expressway-C, Cisco Unified Communications Manager, and IM&P
- C. Cisco Expressway-C, Cisco Expressway-E, and Cisco Unified Communications Manager
- D. Cisco Expressway-C, Cisco Expressway-E, and endpoints outside the enterprise

**Answer: D**

#### Explanation:

All signaling between the Cisco Expressway-E and the external endpoints must be encrypted and depending on the endpoint software version, traffic must also be authenticated with certificates. The communication between the Cisco Expressway-C and the Cisco Expressway-E must always be encrypted and authenticated using server certificates from both servers.

MRA requires secure communication between Expressway-C and Expressway-E, and between Expressway-E and external endpoints.

<https://www.cisco.com/c/en/us/support/docs/unified-communications/expressway/118798-technote-cucm-00.html>

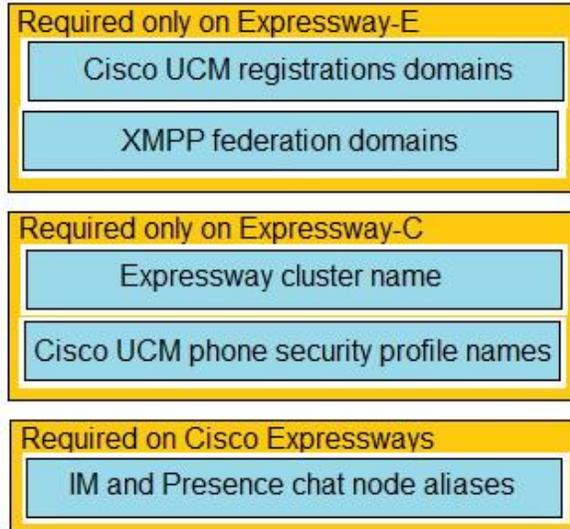
### QUESTION 2

Drag and Drop Question

Drag and drop the required SAN field items from the left onto the features within the server categories on the right.

Expressway cluster name	Required only on Expressway-E <input type="text"/> <input type="text"/>
IM and Presence chat node aliases	
Cisco UCM registrations domains	Required only on Expressway-C <input type="text"/> <input type="text"/>
XMPP federation domains	
Cisco UCM phone security profile names	Required on Cisco Expressways <input type="text"/>

**Answer:**



### QUESTION 3

What is the Cisco-recommended key length in bits for a Cisco Expressway certificate?

- A. 1024
- B. 2048
- C. 4096
- D. 8192

**Answer: C**

**Explanation:**

SIP TLS zones may fail to become active if certificates use a key length of 8192 bits. We recommend using certificates with a key length of 4096 bits.

[https://www.cisco.com/c/dam/en/us/td/docs/voice\\_ip\\_comm/expressway/config\\_guide/X8-9/Cisco-Expressway-Certificate-Creation-and-Use-Deployment-Guide-X8-9.pdf](https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/expressway/config_guide/X8-9/Cisco-Expressway-Certificate-Creation-and-Use-Deployment-Guide-X8-9.pdf)

### QUESTION 4

A company has enabled ICE to optimize call flows and improve video quality between their Cisco Collaboration endpoints internally and externally.

For which reason would you see activity on the TURN server when a call is established between two external endpoints?

- A. The video call is using encryption, which is not supported by ICE with CUCM 12.5
- B. ICE cannot reduce the packet loss on the link
- C. A STUN cannot punch holes in the firewall
- D. The video call is using 4K resolution, which is not supported by ICE with CUCM 12.5

**Answer: C**

**Explanation:**

Those addresses (A, B, and C) populate the SIP SDP offer and answer as ICE candidates, and after the signaling has gone through, both endpoints will have the remote party ICE candidate addresses. It is at that point that the endpoints do a connectivity check by sending STUN

messages to one another in an attempt to punch transport holes in the firewalls in order to establish media connectivity between peers.

<https://www.cisco.com/c/en/us/td/docs/solutions/PA/ICE/icepa125.html>

### QUESTION 5

Refer to the exhibit. An ISDN gateway is registered to Expressway-C with a prefix of 9 and/or it has a neighbor zone specified that routes calls starting with a 9.

	Expressway-E
<b>Rule name</b>	Enter Block ISDN call for example
<b>Description</b>	Enter Block everything (including nonregistered endpoints)
<b>Priority</b>	Enter 41
<b>Protocol</b>	<i>Any</i>
<b>Source</b>	
<b>Request must be authenticated</b>	<i>No</i>
<b>Mode</b>	<i>Alias pattern match</i>
<b>Pattern type</b>	<i>Regex</i>
<b>Pattern string</b>	Enter (9\d+) (.*) (@example.com)
<b>Pattern behavior</b>	<i>Replace</i>
<b>Replace string</b>	Enter do-not-route-this-call for example
<b>On successful match</b>	<i>Stop</i>
<b>Target</b>	<i>TraversalZone</i>
<b>State</b>	<i>Enabled</i>

Which value should be entered into the "Source" field to prevent toll fraud regardless at origin of the call?

- A. Traversal Zone
- B. Any
- C. Neighbor Zone
- D. All

**Answer: B**

**Explanation:**

The dropdown options for the Source field are -

\*Any

\*All zones

\*Local Zone

\*Named

Source:

[https://www.cisco.com/c/dam/en/us/td/docs/voice\\_ip\\_comm/expressway/config\\_guide/X8-8/Cisco-Expressway-Basic-Configuration-Deployment-Guide-X8-8.pdf](https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/expressway/config_guide/X8-8/Cisco-Expressway-Basic-Configuration-Deployment-Guide-X8-8.pdf)

### QUESTION 6

What happens to the encrypted signaling traffic of a collaboration device if you place it inside a firewall with private IP addresses and try to make a call over IP without any collaboration infrastructure?

- A. The signaling makes it back to the endpoint because the firewall is an application layer gateway and provides address translation.
- B. Encrypted IP traffic for collaboration devices always is trusted by the firewall.
- C. The signaling does not make it back to the endpoint because the firewall cannot inspect encrypted traffic.
- D. The signaling makes it back to the endpoint because the endpoint sent the private address to the external endpoint.

**Answer: C**

**Explanation:**

A NAT ALG is similar to a firewall ALG, but a NAT ALG actually changes (maps) the addresses and ports in the signaling messages. The NAT ALG cannot inspect the contents of encrypted signaling messages.

**QUESTION 7**

Which entry in the public (external) DNS is valid to configure DNS SRV records for a Cisco Mobile and Remote Access solution?

- A. `_cisco-uds._tcp.<domain>`
- B. `_cisco-mra._tls.<domain>`
- C. `_collab-edge._tls.<domain>`
- D. `_cisco-expwy._tls.<domain>`

**Answer: C**

**Explanation:**

`_cisco-uds` is used for internal communication, while `_collab-edge` is used for external clients.

**QUESTION 8**

When determining why Mobile and Remote Access to Cisco TelePresence equipment does not work anymore for an organization. There are several administrators and configuration changes could have happened without anyone knowing. Internal communication seems to be working, but no external system can register or call anywhere. Gathering symptoms, you also discover that no internal systems can call out either.

What is TraversalZone missing that causes this issue?

- A. link to the DefaultZone
- B. pipe to the DefaultZone
- C. SIP trunk to the DefaultZone
- D. route pattern to the DefaultZone

**Answer: A**

**Explanation:**

Using Links and Pipes to Manage Access and Bandwidth.

You can also manage calls from unrecognized systems and endpoints by configuring the "links" and "pipes" associated with the Default Zone. For example, you can delete the default links to prevent any incoming calls from unrecognized endpoints, or apply pipes to the default links to control the bandwidth consumed by incoming calls from unrecognized endpoints.

[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/expressway/admin\\_guide/X14-0-2/exwy\\_b\\_cisco-expressway-administrator-guide-x1402/exwy\\_m\\_zones-and-neighbors.html#reference\\_AB9714D9A58AB2411A667F451A8ED9A5](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/expressway/admin_guide/X14-0-2/exwy_b_cisco-expressway-administrator-guide-x1402/exwy_m_zones-and-neighbors.html#reference_AB9714D9A58AB2411A667F451A8ED9A5)

### QUESTION 9

For a Mobile and Remote Access deployment, which server's certificate must include the Unified registration domain as a Subject Alternate Name?

- A. Expressway-C server certificate
- B. Cisco Unified Communications Manager server certificate
- C. Expressway-E server certificate
- D. Expressway-C and Expressway-E server certificate

**Answer: C**

**Explanation:**

The Expressway-E server certificate needs to include the following elements in its list of subject alternative names (SAN):

- Unified CM registrations domains
- XMPP federation domains
- IM and Presence chat node aliases (federated group chat)

### QUESTION 10

Which mode should be used when Call Policy is configured on Expressways?

- A. extended CPL
- B. local CPL, policy service, and off
- C. on
- D. remote CPL

**Answer: B**

**Explanation:**

The Call Policy mode controls from where the Expressway obtains its Call Policy configuration. The options are:

- Local CPL: uses locally-defined Call Policy.
- Policy service: uses an external policy service.
- Off: Call Policy is not in use.

[https://www.cisco.com/c/dam/en/us/td/docs/voice\\_ip\\_comm/expressway/admin\\_guide/Cisco-Expressway-Administrator-Guide-X12-5-1.pdf](https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/expressway/admin_guide/Cisco-Expressway-Administrator-Guide-X12-5-1.pdf)

### QUESTION 11

Which service is available in a cloud-based deployment using Cisco Webex Messenger?

- A. Presence
- B. Phone services
- C. Voicemail
- D. Call forward services

**Answer: A**

**Explanation:**

The following services are available in a cloud-based deployment using Webex Messenger:

- Contact Source
- Presence
- Instant Messaging

- Conferencing

**QUESTION 12**

A company is installing Cisco Collaboration infrastructure and one of the requirements is that they must be able to communicate with many external parties that are using H.323 and SIP. Internally they want to register the endpoints only on SIP.

Which functionality would describe the feature that needs to be enabled and where to achieve this?

- A. Interworking in Expressway-C
- B. Transcoding in Cisco Unified Communications Manager
- C. Transcoding in Expressway-C
- D. Interworking in Cisco Unified Communications Manager

**Answer: A**

**Explanation:**

Interworking - interworking is required on expressway series to interwork H.323 to SIP calls. CUCM is SIP only and does not support H.323 calls. Interworking for B2B calls is always done at expressway level.

**QUESTION 13**

Which two statements about Cisco Webex Video Mesh Nodes are true? (Choose two.)

- A. When Expressway Core works with VMN clusters, Expressway Core decides which VMN is used for signaling/media connection.
- B. Cloud-registered devices choose a VMN cluster based on the lowest STUN round trip delay.
- C. The cascading traffic between VMN must bypass the firewall.
- D. When Cisco Unified Communications Manager works with multiple VMNs, Cisco Unified CM decides which VMN is used for signaling connection.
- E. A VMN can terminate a media connection while operating in maintenance mode.

**Answer: BD**

**Explanation:**

In Unified CM, each SIP trunk can support up to 16 Video Mesh destinations (IP addresses).  
[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cloudCollaboration/wbxt/videomesh/cmgt\\_b\\_webex-video-mesh-deployment-guide/cmgt\\_b\\_hybrid-media-deployment-guide\\_chapter\\_011.html](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cloudCollaboration/wbxt/videomesh/cmgt_b_webex-video-mesh-deployment-guide/cmgt_b_hybrid-media-deployment-guide_chapter_011.html)

**QUESTION 14**

What is a key configuration requirement for Hybrid Message Service High Availability deployment with multiple IM and Presence clusters?

- A. You must have the Intercluster Sync Agent working across your IM and Presence clusters.
- B. You must have the Intercluster Lookup Service working across all of your IM and Presence clusters.
- C. Your IM and Presence Service clusters must have Multiple Device Messaging disabled.
- D. AXL service should be activated only on the publisher of each IM and Presence cluster.

**Answer: A**

**Explanation:**

The Cisco Sync Agent must be running on the database publisher node of each intercluster peer on the local and remote IM and Presence database publisher nodes.  
[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cucm/im\\_presence/configAdminGuide/11\\_5\\_1/cup0\\_b\\_config-and-admin-guide-1151su5/cup0\\_b\\_imp-system-configuration-1151su5\\_chapter\\_01100.pdf](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/im_presence/configAdminGuide/11_5_1/cup0_b_config-and-admin-guide-1151su5/cup0_b_imp-system-configuration-1151su5_chapter_01100.pdf)

#### QUESTION 15

Cisco Collaboration endpoints are exchanging encrypted signaling messages.

What is one major complication in implementing NAT ALG for voice and video devices?

- A. Internal endpoints cannot use addresses from the private address space.
- B. The NAT ALG cannot inspect the contents of encrypted signaling messages.
- C. NAT ALG introduces jitter in the voice path.
- D. Source addresses cannot provide the destination addresses that remote endpoints should use for return packets.

**Answer: B**

#### Explanation:

A NAT ALG is similar to a firewall ALG, but a NAT ALG actually changes (maps) the addresses and ports in the signaling messages. The NAT ALG cannot inspect the contents of encrypted signaling messages.

[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/cucm/srnd/collab11/collab11/security.html](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/srnd/collab11/collab11/security.html)  
[https://www.cisco.com/c/en/us/td/docs/voice\\_ip\\_comm/expressway/config\\_guide/X14-0/basic\\_config/exwy\\_b\\_cisco-expressway-e-and-expressway-c-basic-configuration-deployment-guide-x14-0/exwy\\_m\\_advanced-networking-deployments.html](https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/expressway/config_guide/X14-0/basic_config/exwy_b_cisco-expressway-e-and-expressway-c-basic-configuration-deployment-guide-x14-0/exwy_m_advanced-networking-deployments.html)

#### QUESTION 16

What are two reasons why port 8443 is unreachable from the Internet to the Expressway-E?  
(Choose two.)

- A. The MRA license is missing on the Expressway-E.
- B. The Unified Communications zone is down.
- C. Transform is not configured on Expressway-E.
- D. The SRV record for \_cisco-uds is misconfigured.
- E. The firewall is blocking the port.

**Answer: BE**

#### Explanation:

Traffic is coming from the internet so can not be the cisco\_uds record, as it is created on the internal DNS only. Collab\_edge is the external DNS record. It has to be port blocked or traversal zone down.

<https://www.cisco.com/c/en/us/support/docs/unified-communications/expressway/118798-technote-cucm-00.html#anc6>

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