



# 400-051<sup>Q&As</sup>

CCIE Collaboration Written

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### QUESTION 1

Which two SCCP call signaling messages are initiated by Cisco Unified Communications Manager to an IP phone?  
(Choose two.)

- A. SoftKeyEvent
- B. CloseReceiveChannelAck
- C. CallState
- D. KeypadButton
- E. OpenReceiveChannel
- F. Offhook

Correct Answer: CE

Upon receiving an OpenReceiveChannelmessage, the IP phone selects the UDP port number it wants to use to receive RTP packets and reports this information to call manager. With the SCCP protocol architecture, the majority of the H.323 processing power resides in an H.323 proxy -- the Cisco CallManager. The end stations (IP phones) run the Skinny client, which consumes less processing overhead. The client communicates with CallManager using connection-oriented (TCP/IP-based) communication to establish a call with another H.323-compliant end station. Once Cisco CallManager has established the call, the two H.323 end stations use connectionless (UDP/IP-based) communication for audio transmissions.

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### QUESTION 2

To which Cisco enterprise medianet application class does Cisco Unified Personal Communicator belong?

- A. VoIP Telephony
- B. Real-time Interactive
- C. Multimedia Conferencing
- D. Broadcast Video
- E. Low Latency Data

Correct Answer: C

Enterprise Medianet QoS Recommendations



Application Class	Per-Hop Behavior	Admission Control	Queuing and Dropping	Media Application Examples
VoIP Telephony	EF	Required	Priority Queue (PQ)	Cisco IP Phones (G.711, G.729)
Broadcast Video	CS5	Required	(Optional) PQ	Cisco IP Video Surveillance/Cisco Enterprise TV
Real-Time Interactive	CS4	Required	(Optional) PQ	Cisco TelePresence
Multimedia Conferencing	AF4	Required	BW Queue + DSCP WRED	Cisco Unified Personal Communicator
Multimedia Streaming	AF3	Recommended	BW Queue + DSCP WRED	Cisco Digital Media System (VoDs)
Network Control	CS6		BW Queue	EIGRP, OSPF, BGP, HSRP, IKE
Signaling	CS3		BW Queue	SCCP, SIP, H.323
Ops/Admin/Mgmt (OAM)	CS2		BW Queue	SNMP, SSH, Syslog
Transactional Data	AF2		BW Queue + DSCP WRED	Cisco WebEx/MeetingPlace/ERP Apps
Bulk Data	AF1		BW Queue + DSCP WRED	E-mail, FTP, Backup Apps, Content Distribution
Best Effort	DF		Default Queue + RED	Default Class
Scavenger	CS1		Min BW Queue	YouTube, iTunes, BitTorrent, Xbox Live

References: [http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/WAN\\_and\\_MAN/QoS\\_SRND\\_40/QoSIntro\\_40.html#pgfId-61116](http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/WAN_and_MAN/QoS_SRND_40/QoSIntro_40.html#pgfId-61116)

### QUESTION 3

What is the maximum number of subclusters supported on a Cisco IM and Presence server?

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

Correct Answer: A

### QUESTION 4

Which two SCCP call states support the MeetMe softkey? (Choose two.)

- A. On Hook
- B. Connected
- C. On Hold
- D. Off Hook



E. Ring Out

F. Connected Conference

Correct Answer: AD

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#### QUESTION 5

Which three message types for RTCP are valid? (Choose three.)

A. sender report

B. end of participation

C. source description

D. sender codec

E. receiver packets

F. average MOS

Correct Answer: ABC

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#### QUESTION 6

When multiple greetings are enabled on Cisco Unity Express, which greeting will take the highest precedence?

A. standard

B. meeting

C. busy

D. closed

E. internal

Correct Answer: B

Meeting greeting has the highest priority because it is set by the user when he doesn't want to take the call and notices the caller he is online.

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#### QUESTION 7

Which two file transfer protocols are used to send Call Detail Record flat files to third-party billing servers? (Choose two.)

A. SCP

B. SFTP



- C. TFTP
- D. FTP
- E. SOAP/HTTPS
- F. FTP over SSL

Correct Answer: BD

### QUESTION 8

Refer to the exhibit.

SERVER-NAME	IP ADDRESS	PING (msec)	RPC?	REPLICATION STATUS	REPL. QUEUE	DBver& TABLES	RPL LOOP?	REPL. REPLICATION SETUP (RTMT) & details
CUCMPUB	172.16.100.50	0.033	Connected	0	Match	Yes	(3)	PUB Setup Completed
CUCNSub1	172.16.100.51	0.855	Connected	4	Match	Yes	(4)	Setup Failed
CUCNSub2	172.16.100.52	1.025	Connected	4	Match	Yes	(4)	Setup Failed
CUCNSub3	172.16.100.53	3.250	Connected	4	Match	Yes	(4)	Setup Failed

Users on a four-node CUCM cluster are reporting call problems when attempting to call out to internal extension and PSTN. An engineer troubleshooting issue found a replication of the cluster is in status 4.

Which three steps will resolve the replication problem? (Choose three.)

- A. run the command `utils dbreplication dropadmindb` on all subscribers
- B. run the command `utils dbreplication repairable all` from the publisher
- C. run the command `utils dbreplication stop` on the publisher
- D. run the command `utils dbreplication reset all` from the publisher
- E. run the command `utils dbreplication repair all` from the publisher
- F. run the command `utils dbreplication stop` on all subscribers

Correct Answer: CDF

### QUESTION 9

A client wants to play and compose voice message from Microsoft Outlook.

What is required for this functionality?

- A. Single inbox user message delivery with folder deletion.
- B. Single inbox with mailboxes larger than 2 GB
- C. Single inbox with ViewMail

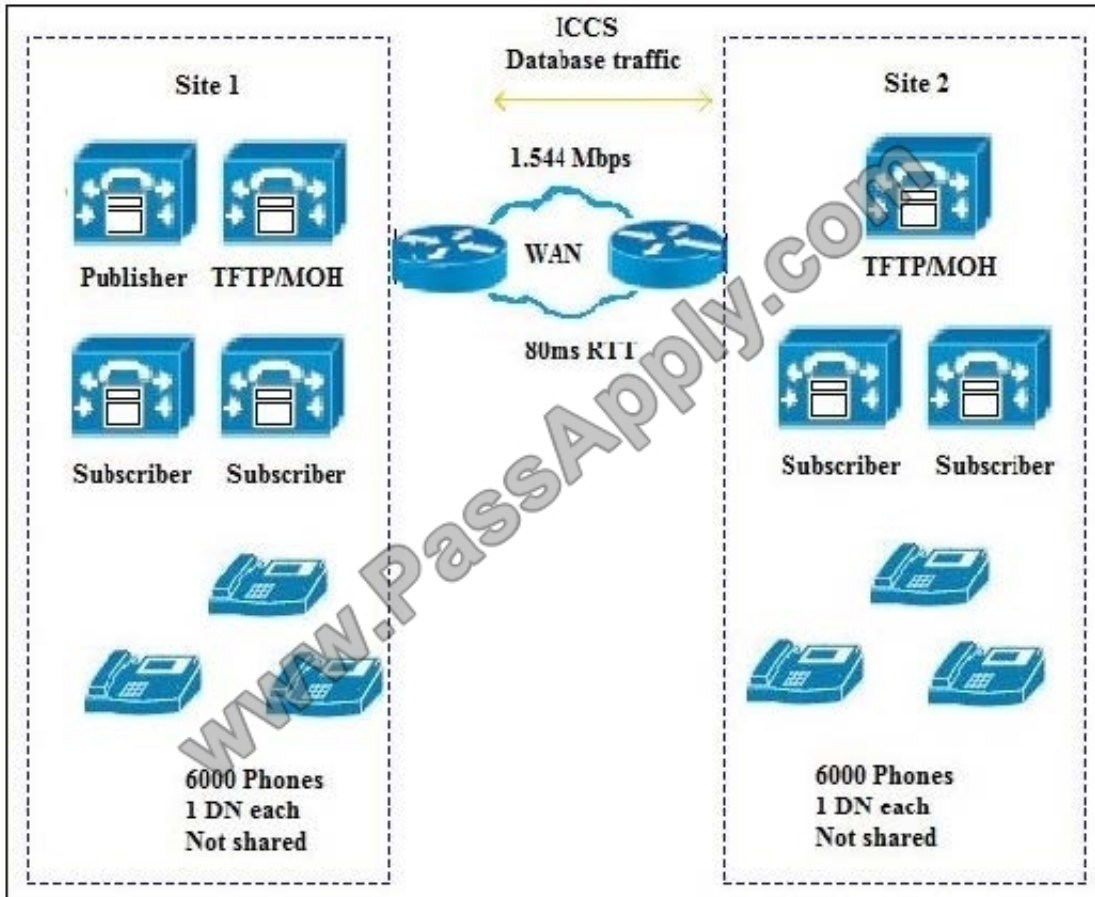


D. Single inbox synchronization with send and draft messages

Correct Answer: C

### QUESTION 10

A customer is planning to deploy a clustering over the WAN UCM topology with two subscribers at Site 1 and two subscribers at Site 2. How much bandwidth would be required between Site 1 and Site 2 for database replication?



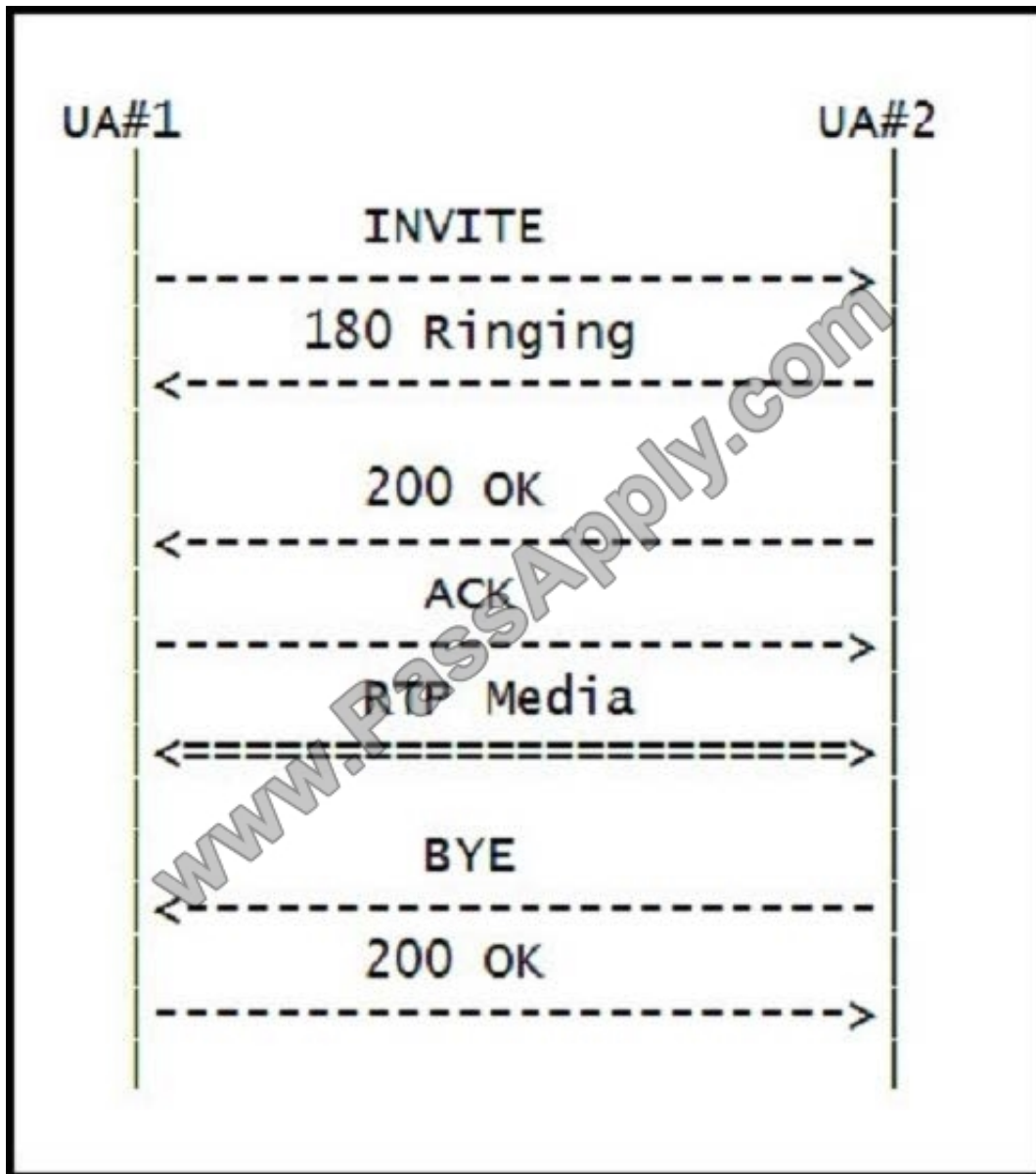
- A. 1.544 Mbps
- B. 3.099 Mbps
- C. 4.632 Mbps
- D. 6.176 Mbps
- E. 7.772 Mbps

Correct Answer: C

### QUESTION 11



Refer to the exhibit.



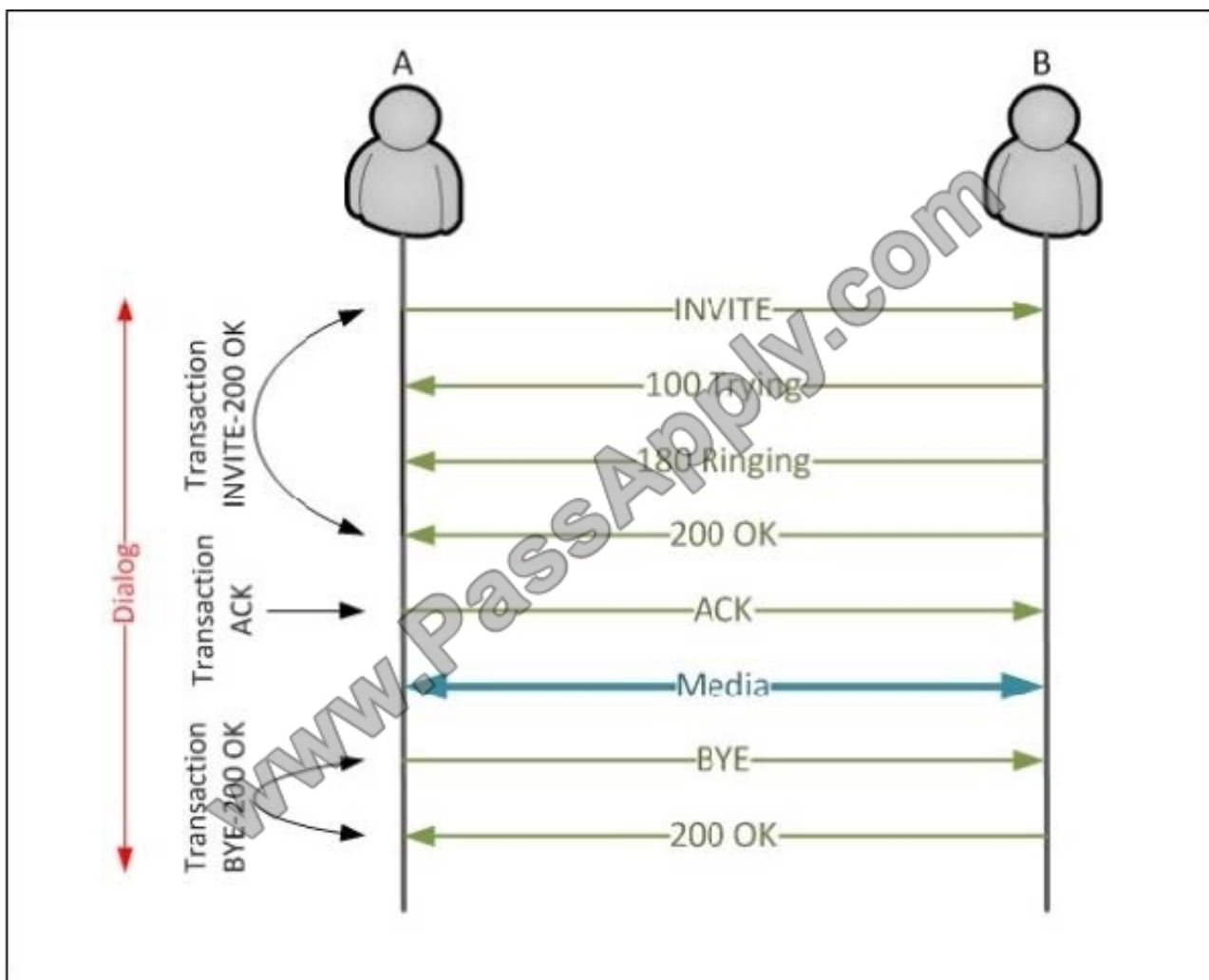
How many SIP signaling transaction(s) took place in this SIP message exchange between two SIP user agents?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5
- F. 6

Correct Answer: C



During the establishment, maintenance and termination of a SIP session, signaling messages are exchanged between the two SIP endpoints. There are two different kinds of signaling "conversations" that those messages take part in: transactions and dialogs. A transaction is a SIP message exchange between two user-agents that starts with a request and ends with its final response (it can also contain zero or more provisional responses in between). For example, during the termination of a SIP session, one user releases the call by sending a BYE request and the other party replies back with a 200 OK response. This message exchange is called a transaction. But what happens in the case of the INVITE request? The establishment of a SIP session starts basically with an INVITE request and is considered as completed upon the receipt of the ACK. In this case, the transaction starts with the INVITE request and ends with the 200 OK, so the ACK is not part of the transaction. The ACK can be considered as a transaction on its own. However, when the final response to an INVITE is not a 2xx response, then the ACK is considered as part of the transaction. A dialog is a complete exchange of SIP messages between two user-agents. That means that transactions are actually parts of a dialog. For example, in the case of a SIP session establishment, a dialog starts with the INVITE-200 OK transaction, continues with the ACK and ends with the BYE-200 OK transaction. The picture below depicts the dialog and transactions that take place during the establishment of a SIP session:



Note: There can also be subsequent requests that belong to the same dialog, such as a BYE or a re-INVITE message. As out-of-dialog requests are considered messages such as an initial INVITE request for a new session or an OPTIONS

message for checking capabilities.

There are different SIP headers/parameters that identify the dialogs and transactions, and they will be analyzed in later posts.





References: <https://telconotes.wordpress.com/2013/03/13/sip-transactions-vs-dialogs/>

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### QUESTION 12

Which element was added to H.225 messages to enable Fast Connect in H.323 version 2?

- A. fastStart
- B. fastConnect
- C. H.245 PDU
- D. User-User Information
- E. Connection Information

Correct Answer: A

Fast start allows for H323 media connections to be started at the beginning of a call. This is helpful for ringback scenarios, and also reduces the amount of time calls take to establish media. H245 is still negotiated later, but the actual media can be done earlier through H225 messages.

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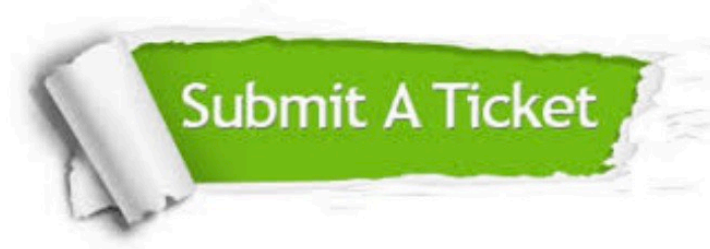
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