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Nortel technology standards and protocol for ip telephony solutions

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QUESTION NO: 1

To achieve the QoS necessary to deliver voice between two points on a Frame Relay network, which two items are required to guarantee that voice quality is maintained? (Choose two.)

Assume that a Permanent Virtual Circuit (PVC) is available to address converged voice and data.

- A. a Variable Bit Rate (VBR) service type
- B. a WAN access device that shapes traffic
- C. a WAN access device that does NOT fragment voice IP packets
- D. a WAN access device that can manage First-In, First-Out (FIFO) queuing
- E. a Committed Information Rate (CIR) large enough to address the total peak voice traffic plus a portion allocated for Best-Effort (BE) data

Answer: B,E

QUESTION NO: 2

A video conference is in progress between two networked locations using gigabit Ethernet. The video conferencing application is using User Datagram Protocol (UDP) to transport the video and audio data. Why should UDP be used instead of Transmission Control Protocol (TCP)?

- A. TCP CANNOT handle streaming data applications.
- B. UDP is better than TCP at seamlessly synchronizing voice and video together.
- C. UDP serves as an efficient transport for handling real-time application traffic.
- D. UDP uses less bandwidth than TCP in a WAN, but more bandwidth than TCP in a LAN.

Answer: C

QUESTION NO: 3

How does Real-Time Control Protocol (RTCP), the control protocol of Real-Time Protocol (RTP), assist RTP in handling packetized voice in an IP telephony environment?

- A. Controls the RTP data flows.
- B. Identifies sources and provides QoS feedback.
- C. Interoperates with Transmission Control Protocol (TCP).
- D. Controls the network bandwidth used by RTP data flows.

Answer: B

QUESTION NO: 4

The basic attributes of Real-Time Protocol (RTP) provide for support of applications like voice and video. Which three attributes of RTP support real-time applications? (Choose three.)

- A. Timestamping
- B. Packet sequencing
- C. Header compression
- D. Payload identification
- E. Packet retransmission

Answer: A,B,D

QUESTION NO: 5

What are two differences between IP, Asynchronous Transfer Mode (ATM) and Frame Relay (FR)? (Choose two.)

- A. ATM has a fixed cell size, but IP and FR do NOT.
- B. FR has built in mechanisms within the protocol forQoS.
- C. ATM is connectionless, but IP and FR are connection oriented.
- D. IP is a Layer 3 protocol, but ATM and FR are Layer 2 protocols.

Answer: A,D

QUESTION NO: 6

To implement VoIP on a customer's IP network, which transport protocol should you use to best meet the real-time requirement for VoIP, and why?

- A. User Datagram Protocol (UDP); It ignores lost packets.
- B. Transmission Control Protocol (TCP); It retransmits lost packets.
- C. User Datagram Protocol (UDP);The amount of delay time is bounded.
- D. Transmission Control Protocol (TCP);The amount of delay time is bounded.

Answer: A

QUESTION NO: 7

A customer has a mix of Layer 2 and Layer 3 switches in their LAN. To ensure the best QoS as they implement VoIP, which two QoS methods should you recommend? (Choose two.)

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- A. 802.1q
 - B. Weighted Fair Queuing (WFQ)
 - C. Random Early Detection (RED)
 - D. Differentiated Services (DiffServ)

Answer: A,D

QUESTION NO: 8

During the first phase of a network assessment you discover the customer forces all switch ports to 100 Mbps full duplex. The customer plans to deploy an IP-enabled Private Branch Exchange (PBX) and Internet Telephones. Which network recommendation should you propose to the customer?

- A. Install all devices with default settings.
- B. Require all VoIP components to autonegotiate.
- C. Force the Internet gateways to 100 Mbps full duplex.
- D. Force the Internet gateways to 100 Mbps full duplex and let the Internet Telephones autonegotiate.

Answer: B

QUESTION NO: 9

The following VoIP network assessment steps have already been completed for a customer's data network:

- 1- Estimation of VoIP traffic
- 2- Assessment of LAN/WAN resources
- 3- Capacity is available for VoIP

Which step should you perform next?

- A. Implement 802.11p/q in the LAN.
- B. Determine network protocol usage.
- C. Measure the network ability to provide QoS.
- D. Implement the proposed VoIP network solution.

Answer: C