

# 920-804

## Nortel

### *Technology Standards and Protocol for Converged Networks*

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**Question: 1**

A customer wants to implement VoIP network in their LAN/WAN environment. Following the network assessment, you have to make the appropriate recommendations to address network issues that can cause problems for real-time VoIP traffic. Based on the following, what should be your first recommendation?

- A - Use media shared hubs for LAN connection.
- B - Change the CODEC selection for LAN devices only.
- C - Put call servers, signaling servers and media gateways on one VLAN.
- D - Configure all interfaces to eliminate duplex mismatch and set to auto negotiate.

**Answer: D**

**Question: 2**

You are using Net IQ Chariot on a customer's LAN to complete QoS testing with pre-defined data flow emulation templates. You want to check that the current Diffserv settings will achieve the desired results. Which parameters will provide you with the required information? (Choose two.)

- A - transaction rate
- B - network throughput
- C - precedence settings
- D - resource reservation

**Answer: A, B**

**Question: 3**

After assessing a customer's network in preparation for a multi-site LAN/WAN VoIP deployment, you have determined the following:

Average 5% dropped packets in end to end tests intermittent voice muting. Unacceptable delay

The customer wishes to upgrade their network and correct these deficiencies. Suggest one solution that will give the most noticeable improvement and prepare the network for future growth with the least complexity.

- A - Implement an all optical network
- B - Reduce frame size for all packets.
- C - Increase LAN/WAN bandwidth by 30%.
- D - Implement QoS technique like DiffServ.

**Answer: C**

**Question: 4**

Given the following network assessment information: At all times of the day there is sufficient bandwidth between all test points sitting on the LAN drops as well as the remote offices across the WAN circuits where Internet Telephones will be placed. All the call servers, media gateways and signaling servers are on the same VLAN along with the data network traffic. All of the servers are duplicated on the network to ensure five nines (99.999%) of reliability and call handling.

There is only one physical/logical path to each LAN drop and remote office. The architecture of the network is in a physical star topology with all VoIP processing servers at the center of the star, including the duplicate servers. Each of the remote sites were built from the ground up for VoIP and data traffic with NO regard for any call processing locally. All calls must go back to the campus network. Which three recommendations should you make to the customer concerning their network to enable it to support VoIP traffic? (Choose three.)

- A - Add data path redundancy to give the network survivability.
- B - Ensure that a backup generator sustains the power of all the network equipment.

- C - Recommend a re-evaluation to obtain network delay and jitter information to ensure that these properties are within the appropriate bounds.
- D - Segment the call server, media gateway, and signaling server to appropriate VLANs to ensure signaling traffic is NOT impacted by standard IP data.

**Answer: A, C, D**

**Question: 5**

Which statement about the requirements of VoIP network assessments is true?

- A - Physical diagrams define the network operating systems that will be tested.
- B - Calling patterns define the current peak-period usages of the data networks that will be tested.
- C - Physical diagrams define the network-interface speeds, modes, and protocols that will be tested.
- D - Calling patterns help determine the potential dates for shutting down the network to perform the testing.

**Answer: C**

**Question: 6**

A company wants its network to be configured and if necessary upgraded to enable it to handle the addition of VoIP traffic along with other IP data. During the network assessment you identify: The core of the network is a high-speed data center where there is ample bandwidth to support the addition of VoIP traffic. The remote offices that the data center services are all connected via Frame Relay (FR). After setting up several NetIQ Chariot VoIP endpoints at remote - office locations you identify the following issues: Excessive delays during peak hours, as much as 200 milliseconds on round trips. There are dropped packets even at low usage rates. The jitter across the FR links is excessive when it is greater than 30 milliseconds. Which two changes should occur before the customer's network is declared VoIP - ready? (Choose two.)

- A - Upgrade the data center to Layer 3 switching.
- B - Modify the 802.1p values on the VLANs to reduce the dropped packets to the remote sites.
- C - Increase the Committed Information Rate (CIR) to guarantee that enough bandwidth is available to the remote sites.
- D - Implement traffic prioritization for shaping and policing on the routers (data center and remote offices) to ensure that VoIP traffic is prioritized over non-time-sensitive traffic.

**Answer: C, D**

**Question: 7**

A customer is planning a new VoIP network based on their existing PBX and corporate network. They need historical information about calling patterns in order to plan for VoIP traffic. What is the best source of this type historical information?

- A - Operational Measurements from switch
- B - Error messages from all networking devices
- C - Alarm indications from all networking devices
- D - Log reports from switch and all networking devices

**Answer: A**

**Question: 8**

Given the following network information:

A company with a mixed VoIP and data network is experiencing bad voice quality with VoIP calls during normal business hours.

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