

Nortel 920-803

**Nortel 920-803 Technology Standards and Protocol for
IP Telephony Solutions
Practice Test
Version 1.0**

QUESTION NO: 1

A customer reports that users are complaining about poor voice quality with VoIP calls. A technician has identified an Ethernet switch in the path for VoIP traffic that appears to be the cause of the poor voice quality. Which two configuration parameters, known to cause problems for VoIP traffic, should be checked on the Ethernet switch? (Choose two.)

- A. Spanning tree configuration
- B. Duplex setting
- C. VLAN configuration
- D. Autonegotiation

Answer: B,D

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

Answer: C

QUESTION NO: 3

A geographically dispersed company with a mobile work force wants to quickly and easily deploy Internet Telephones. Which device in the company LAN/WAN network can enable a simplified implementation of Internet Telephones?

- A. VoIP gateway
- B. router
- C. network management application
- D. Dynamic Host Configuration Protocol (DHCP) server

Answer: D

QUESTION NO: 4

Click the exhibit and calculator buttons. A customer recently added VoIP to its data network and is reporting poor voice quality on some calls. It has been determined that the poor voice quality is being caused by excessive delay on calls over the WAN connection. Given the following information: ?The WAN is a 56 kbps link. ?The Maximum Transmission Unit (MTU) on the WAN is 1,024 bytes. What is the minimum WAN bandwidth required to get the delay introduced from the WAN to be dropped down to under 100 ms without changing the MTU?

Serialization transmission delay in msec. for different link speeds											
Link Speed in Kbps	Packet Size										
	40 bytes	80 bytes	88 bytes	136 bytes	184 bytes	232 bytes	280 bytes	520 bytes	1K bytes	1.48K bytes	
56	5.714	11.429	12.571	19.429	26.286	33.143	40.000	74.286	146.286	211.429	
64	5.000	10.000	11.000	17.000	23.000	29.000	35.000	65.000	128.000	185.000	
128	2.500	5.000	5.500	8.500	11.500	14.500	17.500	32.500	64.000	92.500	
256	1.250	2.500	2.750	4.250	5.750	7.250	8.750	16.250	32.000	46.250	
384	0.833	1.667	1.833	2.833	3.833	4.833	5.833	10.833	21.333	30.833	
1000	0.320	0.640	0.704	1.088	1.472	1.856	2.240	4.160	8.192	11.840	
1540	0.208	0.416	0.457	0.706	0.956	1.205	1.455	2.701	5.319	7.688	
2048	0.156	0.313	0.344	0.531	0.719	0.906	1.094	2.031	4.000	5.781	
10000	0.032	0.064	0.070	0.109	0.147	0.186	0.224	0.416	0.819	1.184	
100000	0.003	0.006	0.007	0.011	0.015	0.019	0.022	0.041	0.081	0.118	
150000	0.002	0.004	0.005	0.007	0.010	0.012	0.015	0.028	0.055	0.079	

- A. Increase the WAN bandwidth to 64 kbps.
- B. It CANNOT be done as ?second delays are normal for VoIP technology.
- C. Increase the WAN bandwidth to 256 kbps.
- D. Increase the WAN bandwidth to 128 kbps.

Answer: D

QUESTION NO: 5

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

Answer: A,B,E

QUESTION NO: 6

You are trying to choose between the following two VoIP gateways: ?Gateway A uses H.323. ?Gateway B uses H.248. Which statement(s) best describes the benefits of using H.248 over H.323?

- A. 248 uses proprietary protocol extensions for vendors to add features to gateways. This allows for greater flexibility when configuring gateways.
- B.
- C.
- D. 248 uses Layer 4 intelligence to make decisions about call routing.
- E. 248 is based on Q.931 signaling so it has full interoperability with the Integrated Services Digital Network (ISDN).
- F.
- G. 248 uses a stimulus-based signaling model getting intelligence and features from servers, NOT gateways. This allows for lower cost gateways with more features.
- H.

Answer: B

QUESTION NO: 7

Click the calculator button. A customer wants to achieve the most efficient use of bandwidth over their 128 kbps WAN links. Their top priority is the best possible voice quality to meet call requirements (two concurrent calls) and network capacity. Which CODEC best meets the customer's network requirements?

- A.
- B. 726
- C.
- D. 723.1
- E.
- F. 711
- G. 729AB
- H.

Answer: A

QUESTION NO: 8

What are the three basic functions of Session Initiation Protocol (SIP) that enable it to support multimedia sessions for IP telephony without the assistance of other IP telephony protocols? (Choose three.)

- A. Call-management changing
- B. Resource reservation
- C. Feature negotiation