



74-335^{Q&As}

Network Readiness and Assessment for Lync

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QUESTION 1

You analyze Lync traffic modeling for a customer's network. The network includes a main office, a data center, and five branch offices. Lync servers are consolidated in the data center. The main office and the data center are connected to a Multiprotocol Label Switching (MPLS) network. The branch offices are connected to the main office with virtual private network (VPN) links. The model uses all Lync modalities for all users. The network topology diagram is shown in the exhibit. (Click the Exhibit button.)



The model indicates that the main office exceeds the bandwidth available for Lync over the MPLS link by 10 percent. The utilization of VPN links available for Lync traffic is at almost 100 percent.

You need to recommend a change to optimize Lync traffic through the main office MPLS link.

What should you recommend?

- A. Move the Lync pool to the main office.
- B. Move the Lync pool to a branch office.
- C. Deploy a Survivable Branch Appliance (SBA) at all branches.
- D. Deploy a Survivable Branch Appliance (SBA) at the main office.

Correct Answer: A

QUESTION 2



You need to recommend changes to improve the quality of Lync calls for users in the Detroit and Chicago offices. Which change should you recommend?

- A. Upgrade the data center's Multiprotocol Label Switching (MPLS) link to 1,100 megabits per second (Mbps).
- B. Implement Quality of Service (QoS).
- C. Upgrade the wide area network (WAN) links at these offices to 30 megabits per second (Mbps).
- D. Connect the offices to the Multiprotocol Label Switching (MPLS) network from Provider-1.

Correct Answer: D

QUESTION 3

Your corporate telephony environment is a combination of Lync 2013 and traditional Private Branch Exchange (PBX). Currently, the company has 2,000 users. The company expects to add an additional 2,000 users during the next year. On average, the company has 20 percent of its users on a public switched telephone network (PSTN) call at any time. Currently, users make three or more PSTN calls per hour, and it is expected that the new users will make a similar number of calls.

The circuit count for light, medium, and heavy traffic is shown in the table below:

Traffic	PSTN calls per hour	Users per port
Light	1	15
Medium	2	10
Heavy	3	5

You need to recommend the number of ports required by the PBXs for simulated current usage and the expected growth.

How many ports should you recommend?

- A. 40
- B. 54
- C. 80
- D. 160

Correct Answer: D

According to the scenario: 20% of 4000 = 800 800 divided 5 users per port = 160

QUESTION 4

You perform a network readiness assessment for Lync deployment. The organization's network includes a head office



and 400 branch offices. All branch offices are connected to the head office with a Multiprotocol Label Switching (MPLS) link. You have completed the traffic simulation. The Usage Modeling Data for the Beijing site is shown in the following table:

Total users	500
WAN link speed (Mbps)	20
Peak users signed in	320
Total WAN BW	3,728.4
Total WAN BW no video	2,848.4
% of WAN link	18.21%
% of WAN link no video	13.91%
% of WAN BW for RTC traffic	182.05%
% of WAN BW for RTC traffic no video	139.08%

A summary of the simulation results is shown in the table below:

Traffic Simulated	Beijing: 18 calls
Average MOS	4.36
Average Delay	39.57 ms
Average Jitter	0.31 ms
Maximum Jitter	30 ms
Average Packet Loss	0%
Maximum Consecutive Datagram Loss	1
General Comments	Overall the network performed extremely well, with optimal score throughout.

Detailed simulation results are shown in the following exhibits: · One Way Network Delay (Click the Exhibit button.)





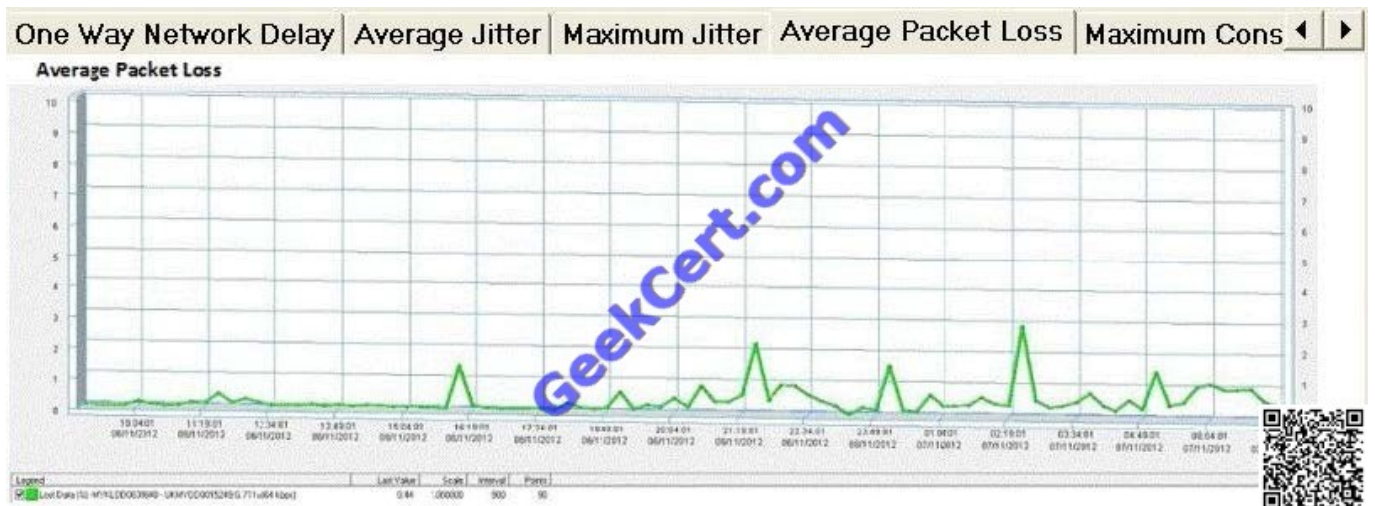
· Average Jitter (Click the Exhibit button.)



· Maximum Jitter (Click the Exhibit button.)



· Average Packet Loss (Click the Exhibit button.)





· Maximum Consecutive Loss (Click the Exhibit button.)



You need to provide recommendations based on the simulation results.

What should you recommend?

- A. Implement Call Admission Control (CAC) on Lync for the affected sites.
- B. Restrict video capability or reduce quality codec usage for certain user groups.
- C. Increase WAN link bandwidth.
- D. Monitor Quality of Experience (QoE).

Correct Answer: C

QUESTION 5

Your company corporate telephony environment is a combination of Lync 2013 and traditional Private Branch Exchange (PBX). The company has 3,500 users at three sites that are connected by a Multiprotocol Label Switching (MPLS) topology. On average, the company has 10 percent of its users in conferences and 15 percent on a public switched telephone network (PSTN) call at any time. The company is planning to deploy Wi-Fi solutions for all offices and move all Lync communications through the wireless network.

You are concerned about the quality of voice traffic through the wireless network. You plan to generate and collect simulated traffic through the wireless network to determine if the traffic is affected by going through the wireless network.

You need to determine if there is any degradation of service through the simulated traffic on the wireless network.

Which piece of information should you generate and collect?

- A. Wi-Fi Multimedia Call Data Record (WMM CDR)
- B. Wi-Fi Multimedia Quality of Experience (WMM QoE)



C. Wi-Fi Multimedia Power Save

D. Wi-Fi Multimedia Quality of Service (WMM QoS)

Correct Answer: D

WMM QoS enables real-time media workloads to implement a higher QoS setting--in particular, for voice traffic over Wi-Fi. Delivering Lync 2013 Real-Time Communications over Wi-Fi

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