

Exam Questions HPE6-A47

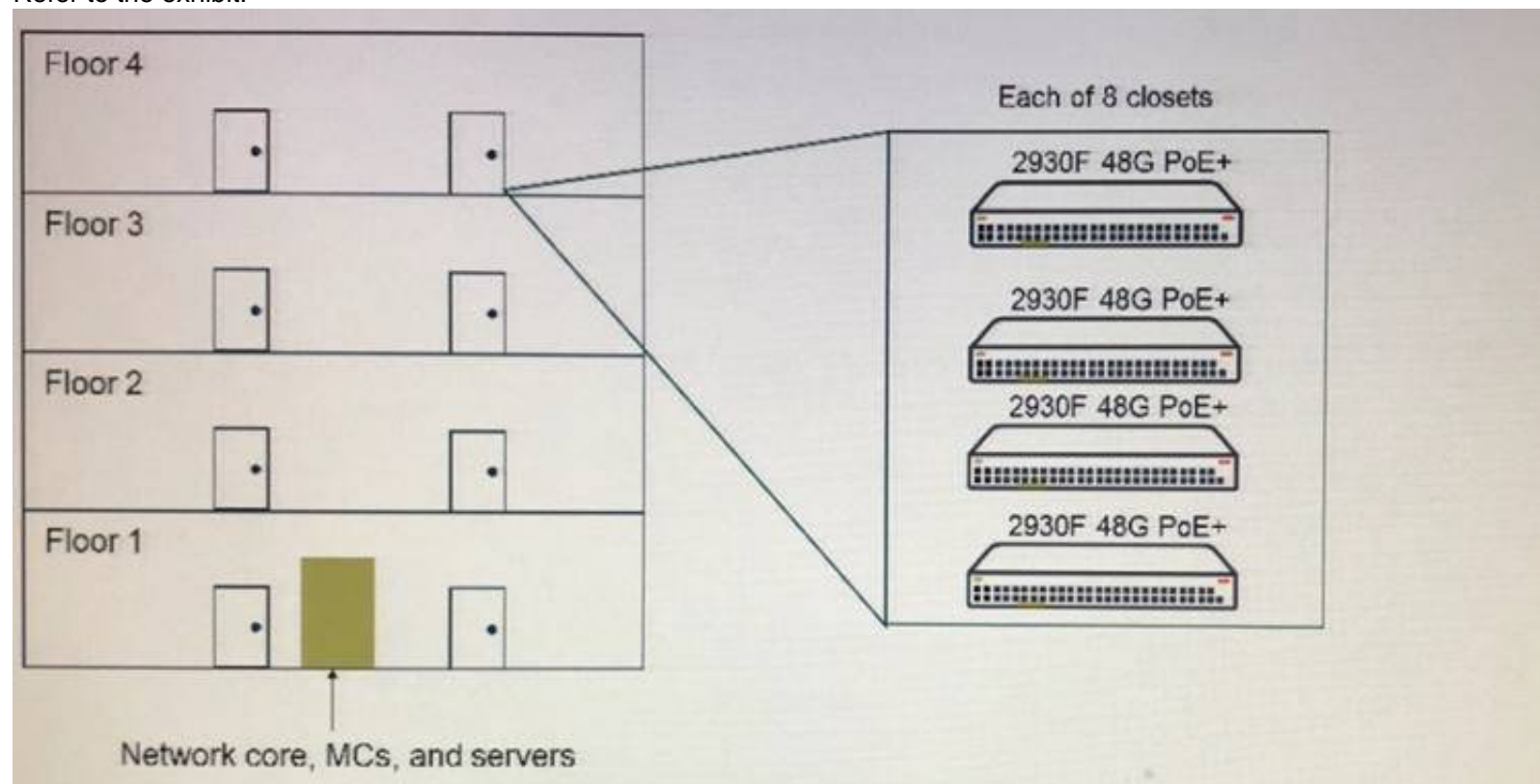
Designing Aruba Solutions

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NEW QUESTION 1

Refer to the exhibit.



An architect needs to plan a network solution for a new office building with four floors. Each floor has two wiring closets with the equipment shown in the exhibit. The switches will connect to employee desktops, a few campus APs controlled by MCs, and printers. The switches do not implement tunneled node. What is a best practice design for the VLANs and subnets for the wired devices?

- A. one VLAN per closet and a /24 subnet for each VLAN
- B. one VLAN per closet and a /25 subnet for each VLAN
- C. one VLAN for the entire building and a /23 subnet
- D. one VLAN per floor and a /24 subnet for each VLAN

Answer: B

NEW QUESTION 2

A financial institution has an Aruba wireless system. Each floor is 19 meters by 23 meters (200 feet by 250 feet) and has 20 APs. The organization now requires dedicated Air Monitors (AMs). About how many AMs should the architect recommend per floor?

- A. about 1 or 2 per floor
- B. about 3 to 5 per floor
- C. about 10 to 12 per floor
- D. about 16 to 20 per floor

Answer: A

NEW QUESTION 3

An architect needs to plan a wireless deployment. The architect conducts a physical walkthrough, but still needs more information. Which significant RF obstacle can be difficult to see visually and might require access to blueprints?

- A. fiberglass
- B. metal firewall
- C. ceiling tiles
- D. drywall

Answer: A

NEW QUESTION 4

An architect proposes Aruba 2930F switches, which do not have OOBM ports. The customer wants to follow best practices for network management security. Which guideline can the architect follow?

- A. Assign access layer switches IP addresses on a VLAN that is dedicated for switch management.
- B. Ensure that DHCP is enabled on only the switch Default VLAN.
- C. Ensure that Telnet is enabled and set to listen on production VLANs.
- D. Assign switches static IP addresses on the same VLAN on which APs are deployed.

Answer: C

NEW QUESTION 5

A customer needs an 802.11ac upgrade for an office with cubicles. The customer states that, because they planned locations for the existing 802.11n APs so that there are no coverage holes, they will simply deploy the new 802.11ac APs in the same location as the existing APs. The customer plans to support mobile devices in addition to laptops.

What should the architect explain about why a site survey is desirable to determine the optimal locations for the new APs?

- A. An 802.11ac deployment typically works better with side-mounted, rather than ceiling-mounted, APs, and a site survey will help determine the new mounting

locations.

B. The new 802.11ac deployment should have a capacity-based design for the best performance, but the existing deployment sounds like a coverage-based design.

C. 802.11ac AP radios tend to be more sensitive to 2.4 GHz interference than 802.11n APs, so the architect needs to search for all potential sources of such interference.

D. 802.11ac APs can support a higher density of clients, so they can be deployed farther apart than the APs in most existing 802.11n deployments.

Answer: A

NEW QUESTION 6

Read this scenario thoroughly, and then answer each question that displays on the right side of the screen. An architect proposes these products for a customer who wants a wireless and wired upgrade:

- ☒ Aruba 2930M switches at the access layer
- ☒ Aruba 5406R switches at the core
- ☒ Aruba AP-325s
- ☒ Aruba 7205 Mobility Controllers (MCs), deployed in a cluster
- ☒ Aruba Mobility Master (MM)
- ☒ Aruba ClearPass Cx000V
- ☒ Aruba AirWare

The architect also needs to propose a security plan for the solution. The customer has 900 employees and up to 30 guests a day. The customer wants to protect the internal perimeter of the network with authentication and simple access controls. The customer is most concerned about wireless security, but also wants to ensure that only trusted users connect on the wire. However, the customer also wants all wired traffic to be forwarded locally on access layer switches. The customer already has a third-party firewall that protects the data center.

The customer wants to use certificates to authenticate user devices, but is concerned about the complexity of deploying the solution. The architect should recommend a way to simplify. For the most part users connect company-issued laptops to the network. However, users can bring their own devices and connect them to the network. The customer does not know how many devices each user will connect, but expects about two or three per-user. DHCP logs indicate that the network supports a maximum of 2800 devices.

Refer to the provided scenario.

Which solution should the architect recommend on the 2930M switches to authenticate and control wired employee devices?

- A. MAC-Auth on edge ports and no tunneled node
- B. 802.1X on edge ports and per-user tunneled node
- C. 802.1X on edge ports and no tunneled node
- D. Mac-Auth on edge ports and per-user tunneled node

Answer: A

NEW QUESTION 7

A plan includes these security settings for the employee WLAN:

- * WPA2-Enterprise with AES encryption
- * 802.1X with PEAP-MSCHAPv2

However, the customer wants to use certificates to authenticate user devices. Which change brings the plan in alignment with the customer requirements?

- A. Use EAP-TLS instead of PEAP-MSCHAPv2
- B. The TKIP encryption instead of AES.
- C. Add WPA2-PSK as an alternative to WPA2-Enterprise.
- D. Add Tunneled TLS (TTLS) as an alternative to PEAP-MSCHAPv2.

Answer: D

NEW QUESTION 8

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Refer to the provided scenario. Which ClearPass licenses should the architect include in the proposal?

- A. 1,000 Access licenses and 1000 Onboard licenses
- B. 1,000 Access licenses and 3,000 (3x1000) Onboard licenses
- C. 3,000 Access licenses (3x1000) and 1000 Onboard licenses
- D. 3,000 Access licenses and 3,000 (3x1000) Onboard licenses

Answer: B

NEW QUESTION 9

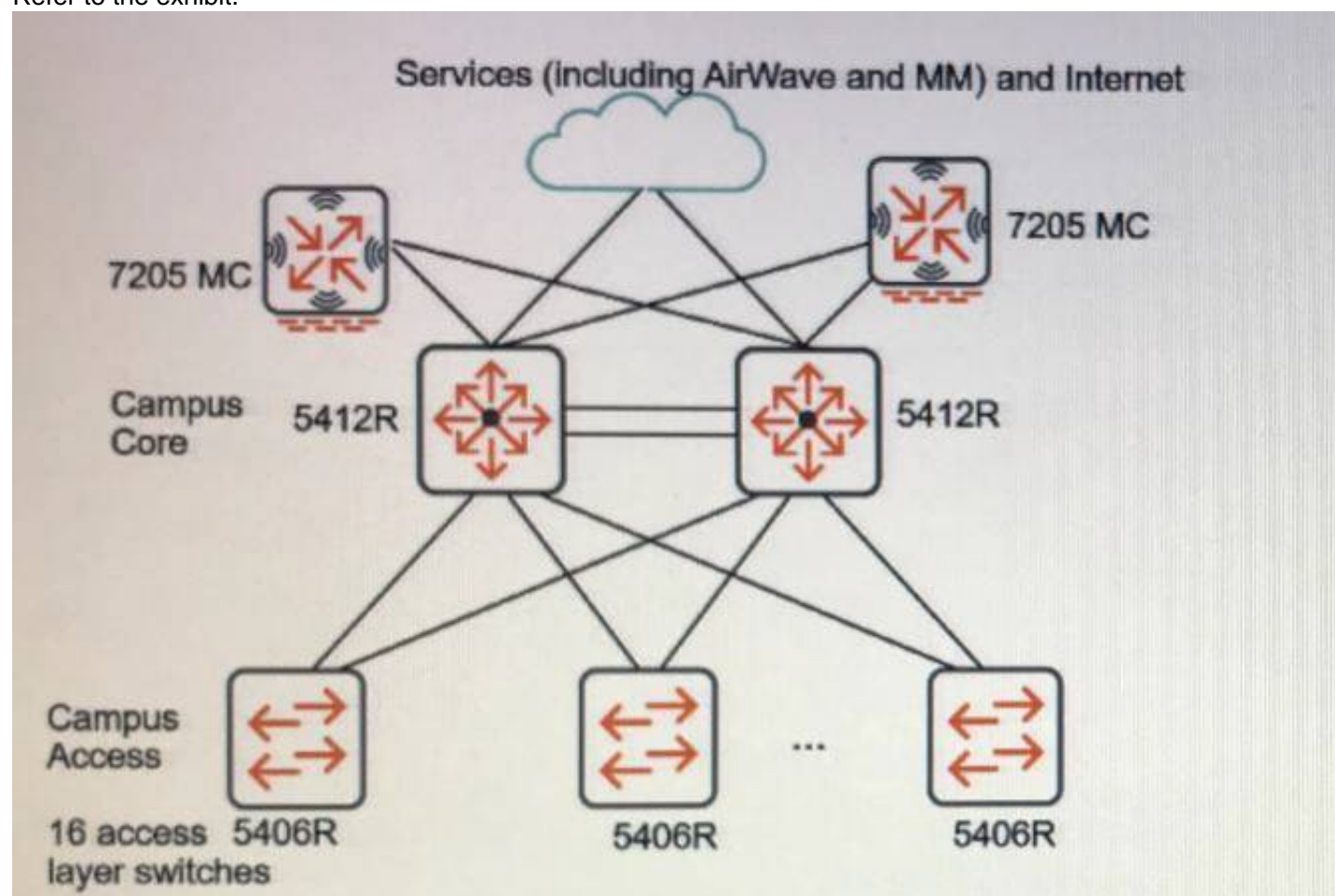
What typically drives the need for an aggregation layer in modern networks?

- A. insufficient fiber cabling, especially between buildings
- B. lack of high speed uplink capabilities at the access layer
- C. simplification of spanning tree protocol at the access layer
- D. need to extend VLANs across wider areas

Answer: C

NEW QUESTION 10

Refer to the exhibit.



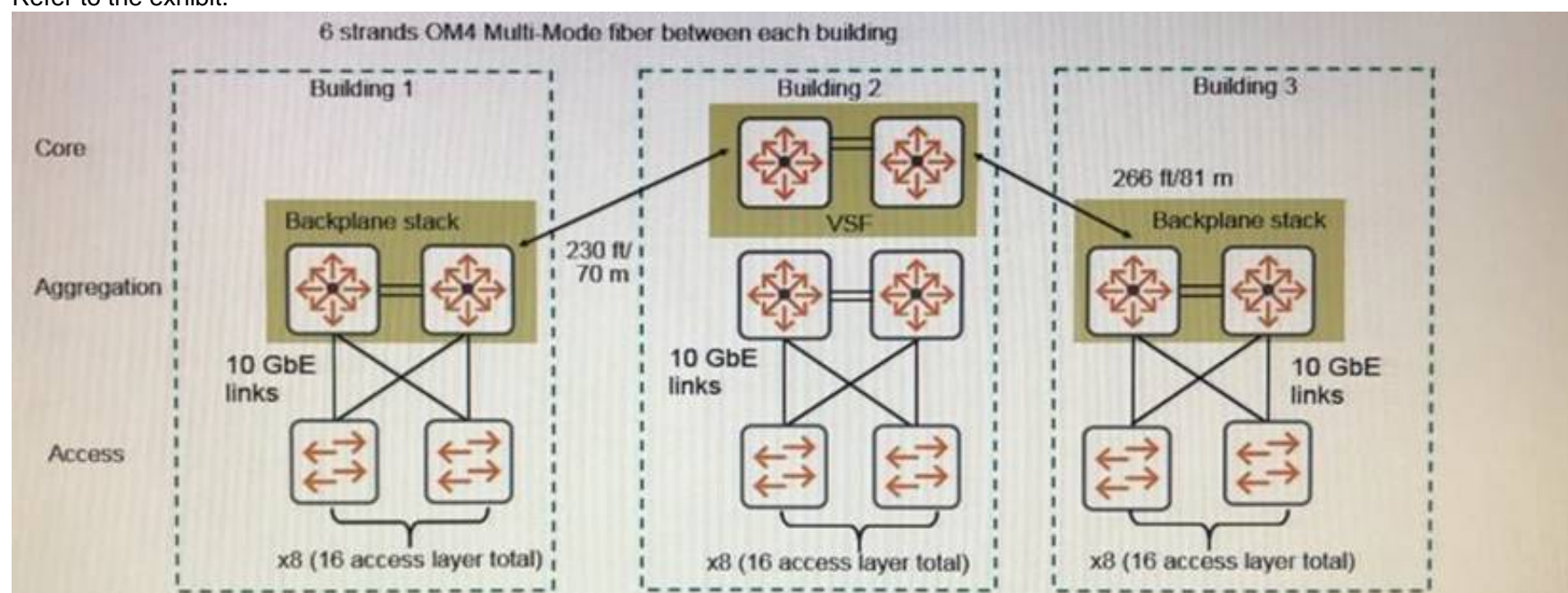
What is one reason for an architect to recommend the use of Virtual Switching Framework (VSF) in this network?

- A. VSF enables software-defined network monitoring in conjunction with AirWare.
- B. VSF transforms switches into virtual extensions of the MCs to simplify MST management.
- C. VSF enables administrators to manage all 18 switches as a single switch.
- D. VSF simplifies the topology and eliminates the need for spanning tree.

Answer: D

NEW QUESTION 10

Refer to the exhibit.



An architect determines that 80 Gbps bandwidth is required for the link aggregation between the Building 1 aggregation layer and Building 2. Which transceivers should the architect recommend for each pair of switches?

- A. two QSPF+ BiDi
- B. two QSPF+ MPO
- C. eight SPF+ LR
- D. eight SFP+ SR

Answer: B

NEW QUESTION 13

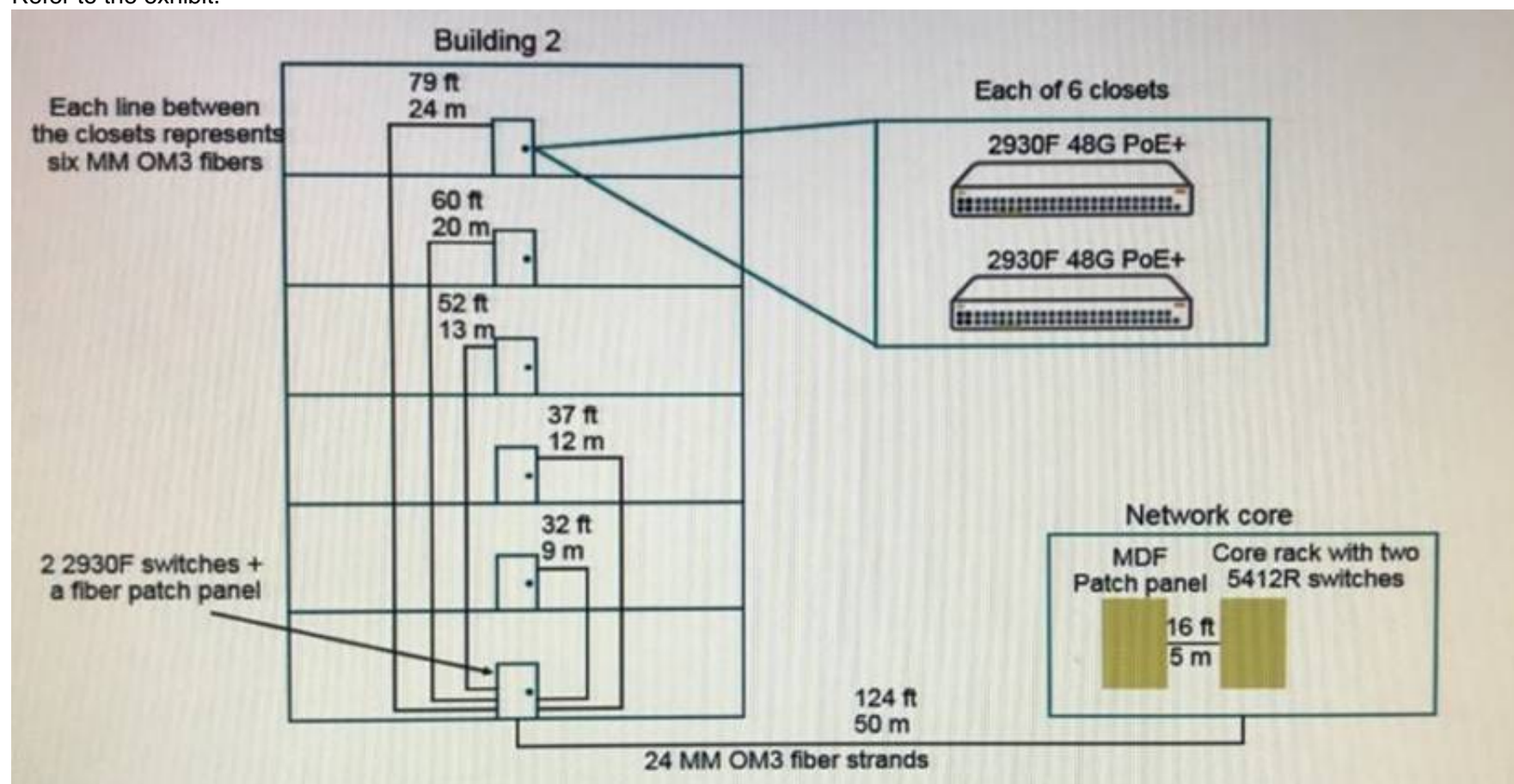
A customer needs a wireless solution upgrade. Among the devices that need wireless access are printers. What information about the printers does the architect need to plan the wireless solution? (Select two.)

- A. whether the printers are physically locked down
- B. the identify of users who need to access printers
- C. whether the printers support Power over Ethernet (PoE)
- D. whether the printers support 802.1X
- E. the 802.11 standards supported by the printer

Answer: CE

NEW QUESTION 17

Refer to the exhibit.



The exhibit shows the current plan for a wired network upgrade.

As much as possible, the customer wants to flatten the architecture and avoid recabling. However, each Building 2 switch must also maintain connectivity to the core if one link fails. What should the architect propose to meet the customer requirements?

- A. Use two additional 2930F switches to act as an aggregation layer for Building 2; connect them to the core on 40 GbE connections.
- B. Connect each Building 2 switch directly to the core on a single fiber strand through the use of SFP+-SR transceivers.
- C. Combine the switches in each Building 2 closet as a VSF fabric; establish two 10 GbE connections to the core per fabric.
- D. Extend additional fiber between the buildings so that each Building 2 switch can have a direct 10 GbE connection to the core.

Answer: C

NEW QUESTION 19

An architect plans 12 APs for an auditorium that is 325 square meters (3, 498 square feet). Each AP has one 2.4 GHz radio and one 5 GHz radio. Both types of radios use 20 MHz channels.

Assume that DFS channels can be used in this design. How many 5 GHz collision domains does this design provide?

- A. 1
- B. 6
- C. 12
- D. 25

Answer: B

NEW QUESTION 21

An Aruba wireless solution for a very high density (VHD) wireless solution consists of a Mobility Master (MM) and two Mobility Controllers (MCs). What is the best practice design for routing the wireless traffic?

- A. The MCs provide the default gateway services for wireless devices and use static routers.
- B. The MCs act at Layer2, and the MM acts as the default gateway.
- C. The MCs act at Layer2, and core routing switches act as the default gateway.
- D. The MCs provide the default gateway services for wireless devices and use OSPF.

Answer: B

NEW QUESTION 22

An enterprise needs an upgrade to 802.11ac. Users run applications such as Web, email, voice, and video. The architect needs to conduct an active site survey to plan 802.11ac AP locations. The noise floor is about -90 dBm across the site.

Based on Aruba best practices, what is the minimum acceptable signal that the architect should look for to determine the test AP range?

- A. a signal of -65 dBm in the 2.4 GHz band
- B. a signal of -75 dBm in the 5 GHz band
- C. a signal of -65 dBm in the 5 GHz band
- D. a signal of -75 dBm in the 2.4 GHz band

Answer: C

NEW QUESTION 25

For which scenario does the Aruba backplane stacking technology meet the needs?

- A. The customer needs to deploy a pair of aggregation switches in the same closet, and wants to simplify the architecture and redundancy design.
- B. The customer needs to simplify the deployment of core switches which are located in different closets for redundancy purposes.
- C. The customer needs to expand the network and make it possible for the current core switches to support more MAC forwarding and ARP entries.
- D. The customer needs to deploy a switch at a branch office and have the switch automatically discover and join the network stack at the main office.

Answer: B

NEW QUESTION 28

What should an architect use as a guideline to determine when to define another VLAN for wireless devices?

- A. the WLAN or SSID, with a different VLAN for each SSID
- B. the AP deployment, with a different VLAN for each AP that is deployed
- C. the number of devices, with a different VLAN for each 250 devices
- D. the employee roles, with a different VLAN for each role or department

Answer: D

NEW QUESTION 30

An architect has an Instant AP (IAP) cluster at a mid-sized branch office. The IAP cluster now needs to tunnel corporate traffic to a Mobility Controller (MC) at the main office. However, the branch office should remain functional even if the link to the main office fails. Users at the branch office require access to main office resources, but do not require multicast services.

What is the recommended DHCP mode?

- A. Local
- B. Centralized L2
- C. Distributed L2
- D. Distributed L3

Answer: D

NEW QUESTION 32

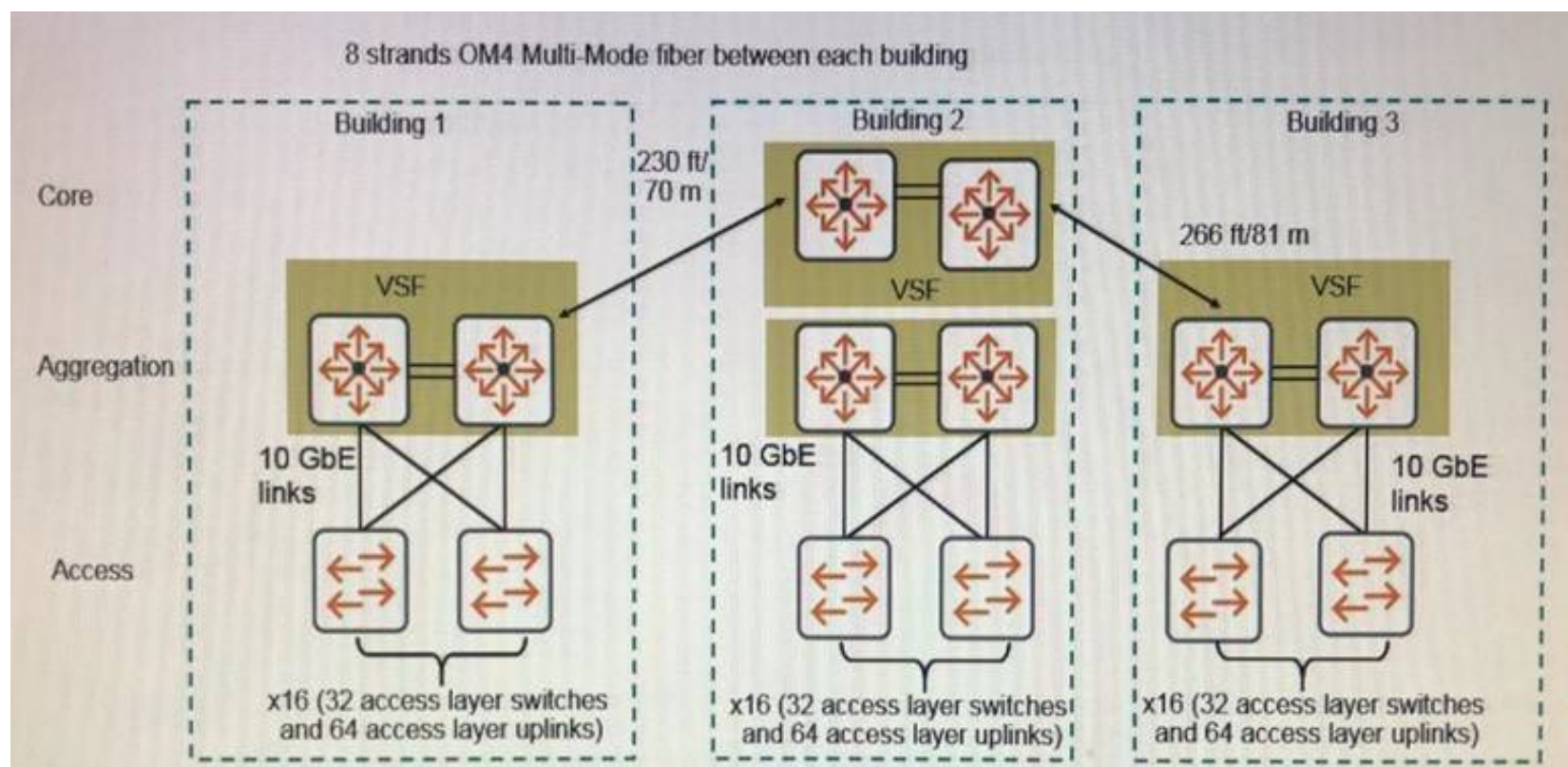
A customer has several clusters of Aruba 325 Instant APs. The customer is happy with the performance of the current APs, but would like to add a Mobility Controller (MC). What should the architect propose?

- A. the purchase of Universal APs that are the same modes as the current APs.
- B. Aruba ClearPass to onboard the APs as campus APs in the new MC-based deployment
- C. conversion of the existing Instant APs to campus APs (CAPs)
- D. a Virtual Mobility Controller (VMC) which can be licensed to control Instant APs

Answer: D

NEW QUESTION 37

Refer to the exhibit.



An architect selects 5406R switches for the aggregation layer. What is an appropriate amount of bandwidth for the link aggregation between each aggregation layer VSF fabric and the campus core?

- A. 60 Gbps
- B. 160 Gbps
- C. 200 Gbps
- D. 320 Gbps

Answer: C

NEW QUESTION 40

An architect needs to plan 802.11ac wireless deployment for an office environment with a mix of closed offices and cubicles. The coverage area is approximately 4,645 square meters (approximately 50,000 square feet) and has 350 users. The employees use the wireless network for typical office applications, such as email, Web, printing, and accessing shared files and datacenter services.

The architect plans to do a predictive site survey and use VisualRF to plan the coverage. What is a general estimate for the AP count that the architect should have in mind?

- A. 5-10
- B. 10-15
- C. 20-25
- D. 40-45

Answer: D

NEW QUESTION 41

An architect plans 128 APs to support 12,800 devices in a very high density (VHD) design. The customer requires high availability, so the architect plans to recommend a pair of controllers. What is one reason to recommend 7210 controllers rather than 7205 controllers for this deployment?

- A. the need for high speed 10 GbE ports
- B. the need for clustering
- C. the number of device required
- D. the number of APs required

Answer: C

NEW QUESTION 43

A customer requires a wireless upgrade. The architect proposes:

- ▶ Aruba AP-325s
- ▶ Mobility Controller (MC) 7210s
- ▶ Virtual Mobility Masters (MMs)
- ▶ ClearPass
- ▶ AirWave

The customer is interested in wired authentication, as well as wireless authentication, but does not have the budget to upgrade the wired network. The wired network does not currently support 802.1X or RADIUS.

Which feature of the Aruba solution should the architect explain to justify the proposed solution?

- A. The customer can direct all wired traffic through the MCs, which will then apply security to that traffic.
- B. The customer can direct all wired traffic through the MMs, which will impose basic security checks.
- C. ClearPass OnConnect can enable wired authentication on these switches through the use of SNMP.
- D. AirWave can manage these switches and shut down their ports if an unknown user or device connects.

Answer: C

NEW QUESTION 47

An architect plans to purpose two Aruba Mobility Controllers (MCs) in a cluster. The customer has a large building that needs to support about 10,000 devices. The architect plans to associate the Employees WLAN with VLAN ID 10.

What is one Aruba best practice for this design?

- A. Ensure that VLAN 10 is extended to the edge and Aruba APs are deployed on it.
- B. Ensure that each user role on the MCs is associated with a different VLAN ID.
- C. Ensure that the RADIUS server assigns users to different VLANs dynamically.
- D. Ensure that optimization and suppression of unnecessary multicast is enabled.

Answer: C

NEW QUESTION 52

A customer needs a wired network solution that can recognize and prioritize a wide array of different types of traffic, including casual Web browsing, voice, video, SAP Online, and file sharing.

The architect needs to choose between the Aruba 2930F or the 2540 Switch Series for the access layer switch. Why would the architect choose the 2930F rather than the 2540 Switch Series for this customer?

- A. The 2930F Series supports LLDP-MED for detecting VoIP traffic, while the 2540 Series does not.
- B. The 2930F Series supports advancing routing, including multi-area OSPF, while the 2540 Series does not.
- C. The 2930F Series supports more options for class-based QoS policies than the 2540 Series.
- D. The 2930F Series can provide better congestion management with its much deeper buffers.

Answer: D

NEW QUESTION 53

For which scenario should an architect recommend Aruba Central Managed Portal (MSP)?

- A. for a service provider who needs to monitor multi-vendor environments
- B. for an enterprise that needs to manage data center services together with the network
- C. for a service provider who needs to manage multiple customer networks
- D. for an enterprise with many branches that needs to manage services centrally

Answer: D

NEW QUESTION 57

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