

## Exam Questions HPE6-A47

Designing Aruba Solutions

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NEW QUESTION 1

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 2

Refer to the exhibit.  
Exhibit 1.

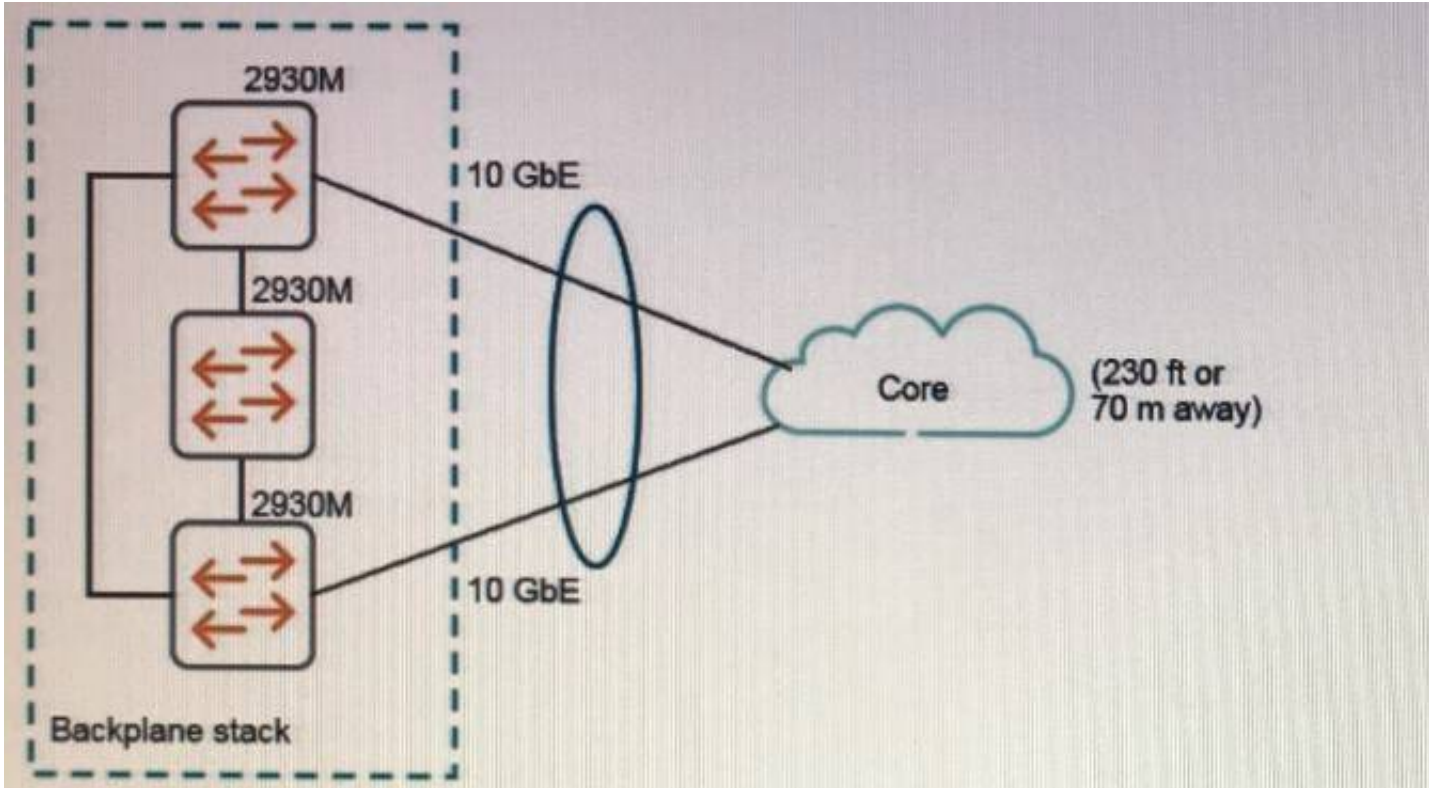


Exhibit 2.

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JL321A	Aruba 2930M 48G 1-slot Switch	Hewlett Packard Enter...	\$5,419.00	3	\$16,257.00	USA Price List (USD)
1.01	H2BR5E	HPE 3Y FC 4H Exch A 2930M 48G Swt SVC [for JL321A]	Hewlett Packard Enter...	\$1,635.00	3	\$4,905.00	USA Price List (USD)
1.02	U4B30E	HPE Networks Stackable Leg Startup SVC [for JL321A]	Hewlett Packard Enter...	\$1,325.00	3	\$3,975.00	USA Price List (USD)
1.03	JL085A	Aruba X371 12VDC 250W Power Supply	Hewlett Packard Enter...	\$439.00	3	\$1,317.00	USA Price List (USD)
1.04	JL085A ABA	INCLUDED: Power Cord - U.S. localization	Hewlett Packard Enter...	incl.	3		
1.05	JL083A	Aruba 3810M/2930M 4SFP+ MACsec Module	Hewlett Packard Enter...	\$1,259.00	2	\$2,518.00	USA Price List (USD)
1.06	J9150A	HPE X132 10G SFP+ LC SR Transceiver	Hewlett Packard Enter...	\$1,040.00	2	\$2,080.00	USA Price List (USD)
Quote Total						\$31,052.00	

Exhibit 1 shows the logical plan, and Exhibit 2 shows the BOM that the administrator has made in Iris. What is missing from the IRIS BOM?

- A. stacking modules and cables
- B. stacking licenses
- C. 10 GbE direct attach cables
- D. an uplink module for one of the switches

Answer: C

NEW QUESTION 3

A customer has very high availability requirements for wireless services. The architect plans to implement clustering on several Aruba Mobility Controllers (MCs). Which benefit of this feature should the architect explain?

- A. Clustering provides wireless client load balancing and seamless failover for client sessions.
- B. Clustering provides high stability because one MC is active for all sessions and one is standby for all sessions.
- C. Clustering enables an AP with a failed MC to operate on its own briefly to ensure seamless connectivity.
- D. Clustering enables an AP with a failed MC to reconnect to a new AP after a short bootstrap.

Answer: B

NEW QUESTION 4

Which guidelines should an architect use to determine how many AirWave servers to recommend?

- A. One server should be deployed on every subnet with an infrastructure device.
- B. One server is recommended for the base features and one server each for add-on features such as Clarity.
- C. One server should be dedicated to the wired infrastructure and one server to the wireless infrastructure.
- D. One server should monitor and manage up to about 4,000 infrastructure devices.

Answer: A

#### 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

A customer currently has an Instant AP deployment. Which customer requirement would indicate that the customer needs to add a controller to the deployment?

- A. the requirement to apply role-based firewall policies
- B. the requirement for a captive portal for guests
- C. the requirement to provide client-to-site VPN access for remote users
- D. the requirement for a cloud-based management solution

**Answer:** D

#### NEW QUESTION 7

The customer has an office environment with users who have laptops that can connect with wired or wireless. Users also bring one or two of their own devices. An architect creates a proposal with Aruba AP-325s, 7210 Mobility Controllers (MCs), a Mobility Master (MM), and Aruba 2930M switches at the access layer to support the laptops and APs.

The architect plans to recommend 802.1X authentication without tunnelled node on Aruba 2930M switch ports that connect to laptops. What is one advantage of this form of authentication?

- A. ensures that Aruba firewall policies apply to wired user traffic.
- B. prevents users from connection attempts with more than three devices
- C. enables user access control and ensures only authorized users connect.
- D. provides a second layer of protection for wireless users at the internal perimeter

**Answer:** C

#### NEW QUESTION 8

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 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

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▶ Aruba ClearPass Cx000V

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Refer to the provided scenario. Based on the plan for wired authentication, what is a correct plan for wired user VLANs?

- A. use the MCs to assign wired users to their VLANs, and extend the VLANs to a Layer 3 switch connected to the MC
- B. specify the VLANs in network policies on AirWare, and ensure that both the switches and MCs are managed by AirWare
- C. assign wired users to different VLANs from wireless users, based on port or role assignments on access layer switch
- D. Extend the VLANs to the core.
- E. configure the same roles on switches and MCs to place wired and wireless users in the same VLANs. Extend VLANs from access layer switches to the core.

**Answer: C**

#### NEW QUESTION 10

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

An architect needs to plan an 802.11ac wireless upgrade for a university building. What is one reason that it is important for the architect to identify auditoriums?

- A. Auditoriums typically require a high-density AP design for RF coverage.
- B. Users in Auditoriums often have Bluetooth devices, which can be a source of interference in the 5 GHz band.
- C. Auditoriums typically require the use of 80 MHz channels to meet bandwidth requirements.
- D. Auditoriums often require the use of DFS channels for sufficient 20 MHz channels.

**Answer: D**

#### NEW QUESTION 15

What is one reason to recommend dedicated Air Monitors (AMs) for a customer, as opposed to APs that are doing WIPS in AP mode (hybrid)?

- A. AMs can operate in a hybrid operation mode in which they can support clients, scan for threats, and contain detected threats.
- B. AMs can implement wireless containment on any channel on which they detect a threat without negative impact on clients.
- C. AMs can detect both 802.11 and non-802.11 sources of interference to the wireless network, while APs cannot.
- D. AMs can maintain client and AP blacklists on their own without the need to communicate with a Mobility Controller (MC).

**Answer: B**

#### NEW QUESTION 17

Which benefit does Aruba AirWare Clarity provide to customer IT staff?

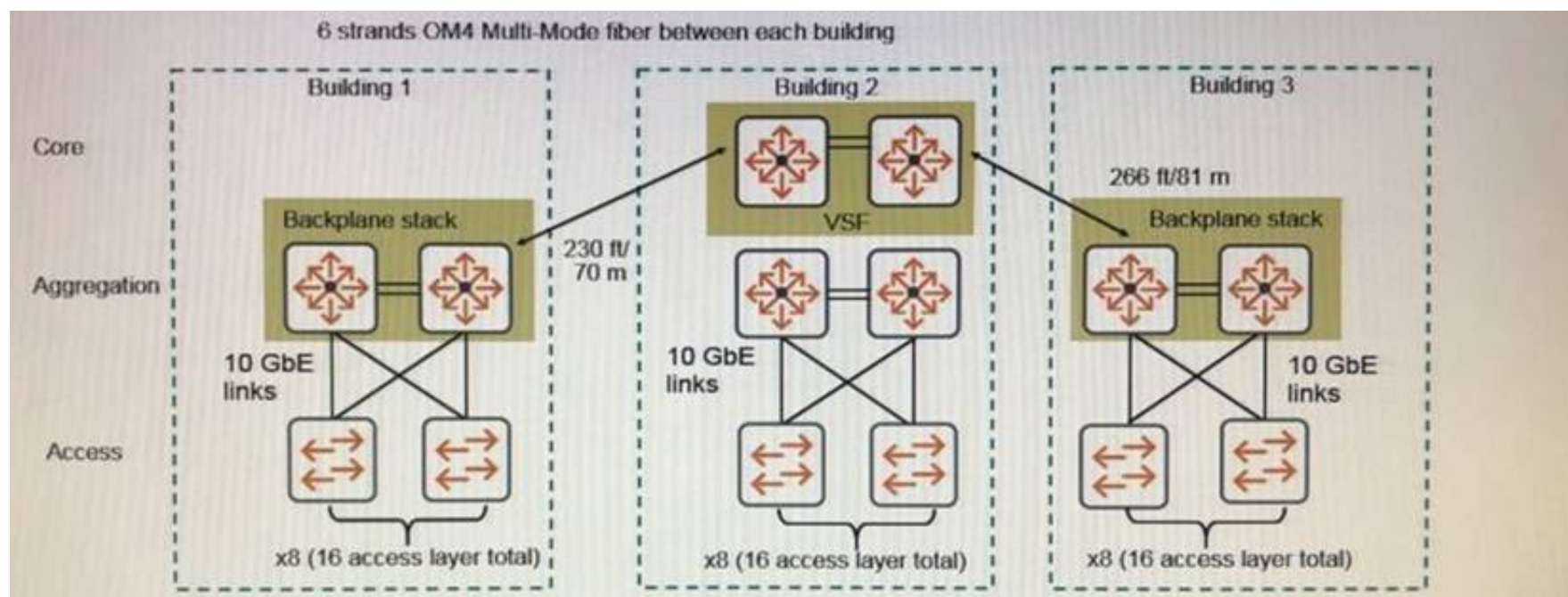
- A. assesses times for clients to obtain DHCP and DNS services to help staff diagnose non-WiFi related issues
- B. create a heat map of RF coverage, shows places with interference, and helps staff pinpoint the interference source
- C. provides insight into the security posture of clients connected to the network, whether wired or wireless
- D. maps all network devices, including APs, MCs, switches, and client devices, and provides information about each node

**Answer: A**

#### NEW QUESTION 22

Refer to the exhibit.





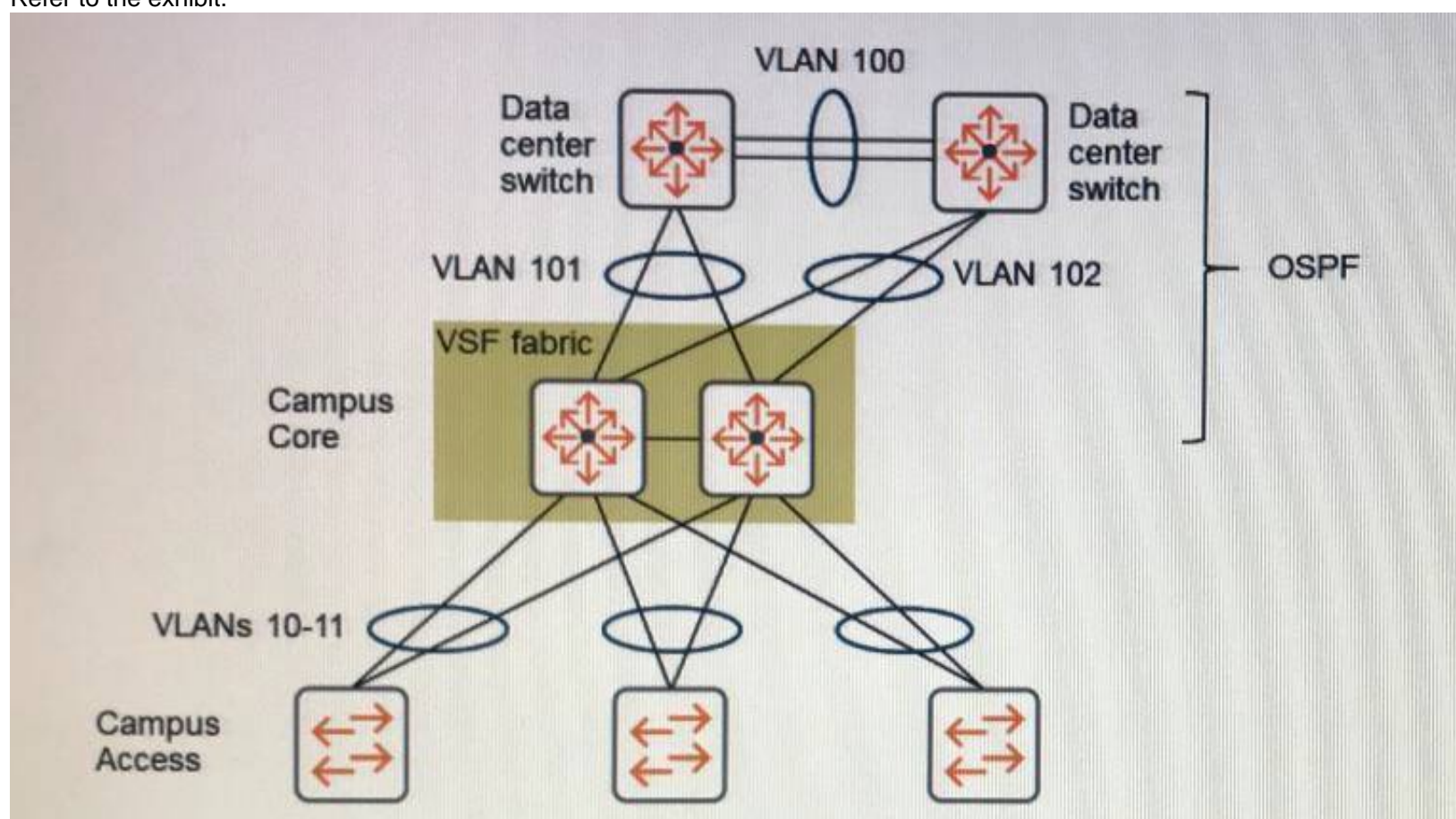
An architect determines that 80 Gbps bandwidth is required for the link aggregation between the Building 1 aggregation layer and Building 2. Which transceivers should the architect recommend for each pair of switches?

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

**Answer: B**

#### NEW QUESTION 26

Refer to the exhibit.



The customer requires fast failover if any one link or core device fails. Which additional technology should the architect plan on the core VSF fabric to meet these criteria?

- A. OSPF graceful restart
- B. SmartLink
- C. BGP
- D. VRRP

**Answer: C**

#### NEW QUESTION 31

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 35

A customer needs a networking solution that supports their Microsoft Skype for Business Unified Communications (UC) solution. The architect plans to use multiple Aruba APs, switches, and controllers.

The customer wants real time statistics and assessment of call quality. Which component should the architect include to provide these services?

- A. Aruba AirWare
- B. Aruba Central
- C. Aruba Mobility Master (MM)
- D. Aruba ClearPass

**Answer: B**

### NEW QUESTION 36

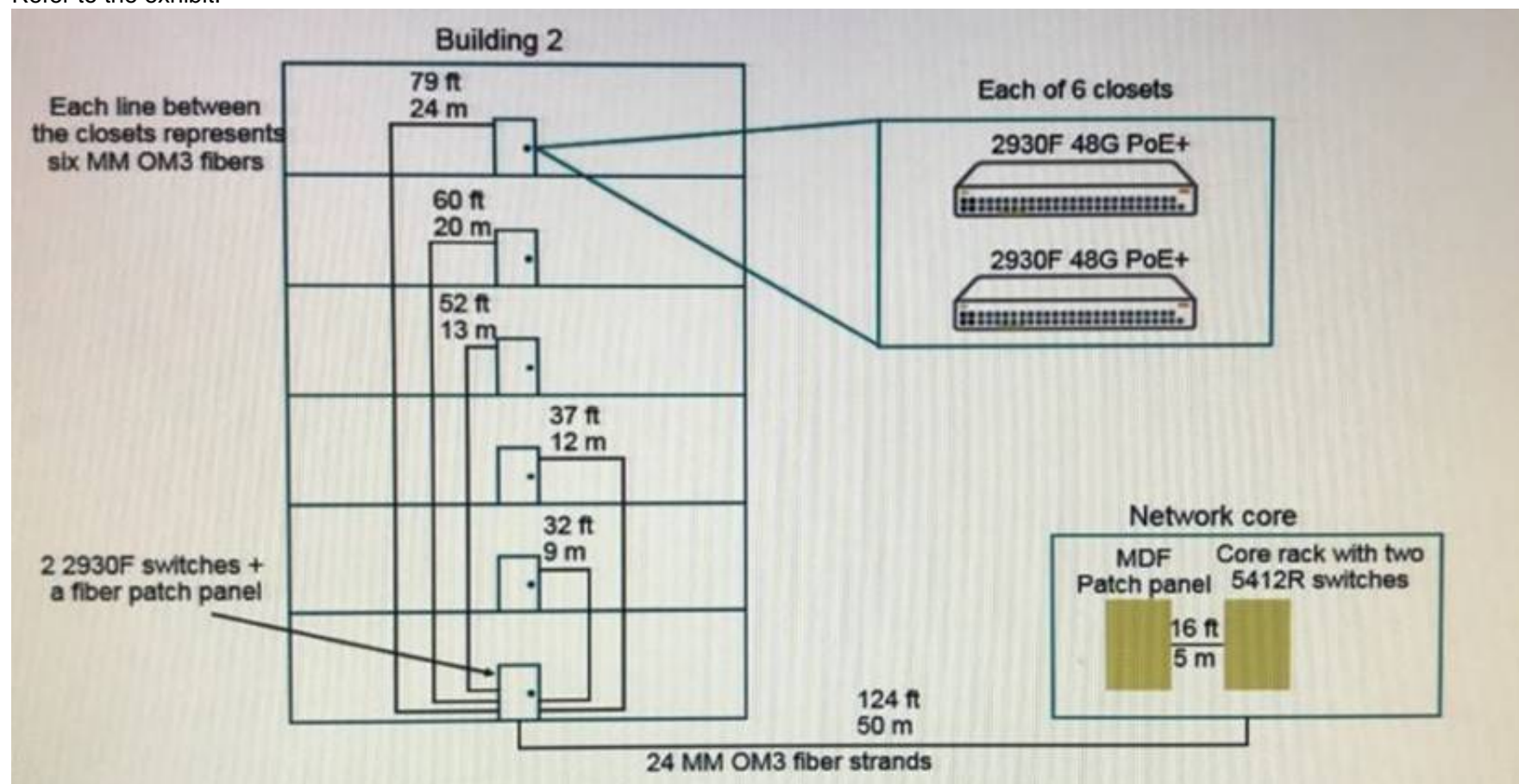
An architect proposes an Aruba wireless solution for a customer that uses Microsoft Skype for Business. What should be set up on the MCs, or MM, to ensure that wireless voice traffic is properly prioritized?

- A. Firewall policies and SDN to mark voice
- B. Broadcast suppression combined with AirGroup
- C. Airtime Fairness set to fair-access
- D. Voice-aware Layer 3 roaming

**Answer: D**

### NEW QUESTION 38

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?

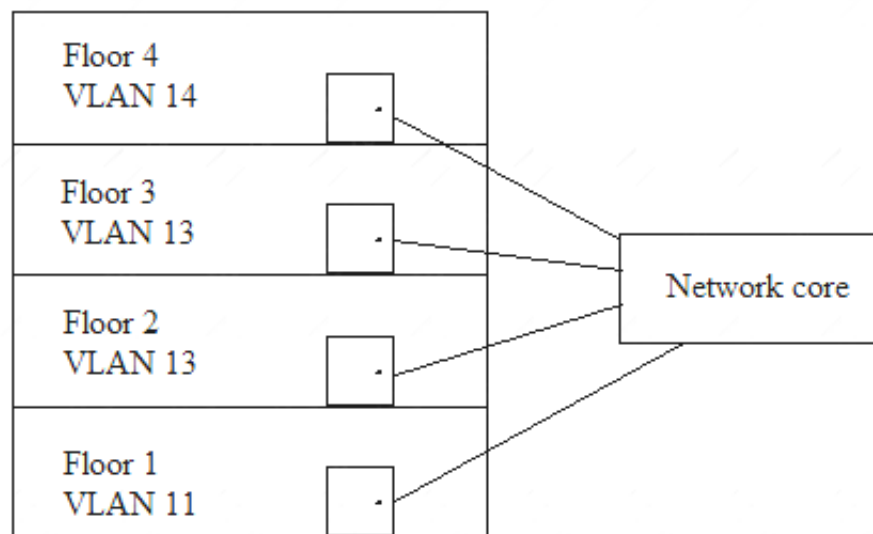
- A. Use two additional 2930F switches to act as an aggregation layer for Building 2; connect them to the core on 40 GbE connections.
- B. Connect each Building 2 switch directly to the core on a single fiber strand through the use of SFP+-SR transceivers.
- C. Combine the switches in each Building 2 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 43

Refer to the exhibit.





A customer needs to upgrade the wireless network at their campus, which has a single large building. Employees use the wireless network to access the Internet and centralized services. The building has four floors.

These are the requirements:

- ▶ 30 APs on each floor
- ▶ A Mobility Master (MM)-based architecture
- ▶ Deployment of one Aruba 7030 Mobility Controller (MC) on each floor, with the MCs combined in a cluster for seamless client failover and roaming

What should the architect explain to the customer about the proposed solution?

- A. MCs should be deployed centrally on the same VLAN to better meet these goals
- B. MCs in a cluster must have additional AP licenses to support APs of a failed controller
- C. The MC 7030 does not support enough APs for the requirements
- D. The MC 7030 only supports clusters with up to three members

**Answer: A**

#### NEW QUESTION 45

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 48

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 49

An architect proposes four 7210 Mobility Controllers (MCs) to support about 1,500 client APs. The customer environment will have a maximum of about 20,000 wireless clients. The customer wants hardware MMs with an active and standby deployment. What is the minimum solution that meets the customer requirements?

- A. two MM-HW-10K appliances
- B. two MM-HW-5K appliances
- C. four MM HW-5K appliances
- D. four MM HW-10K appliances

**Answer: B**

#### NEW QUESTION 53

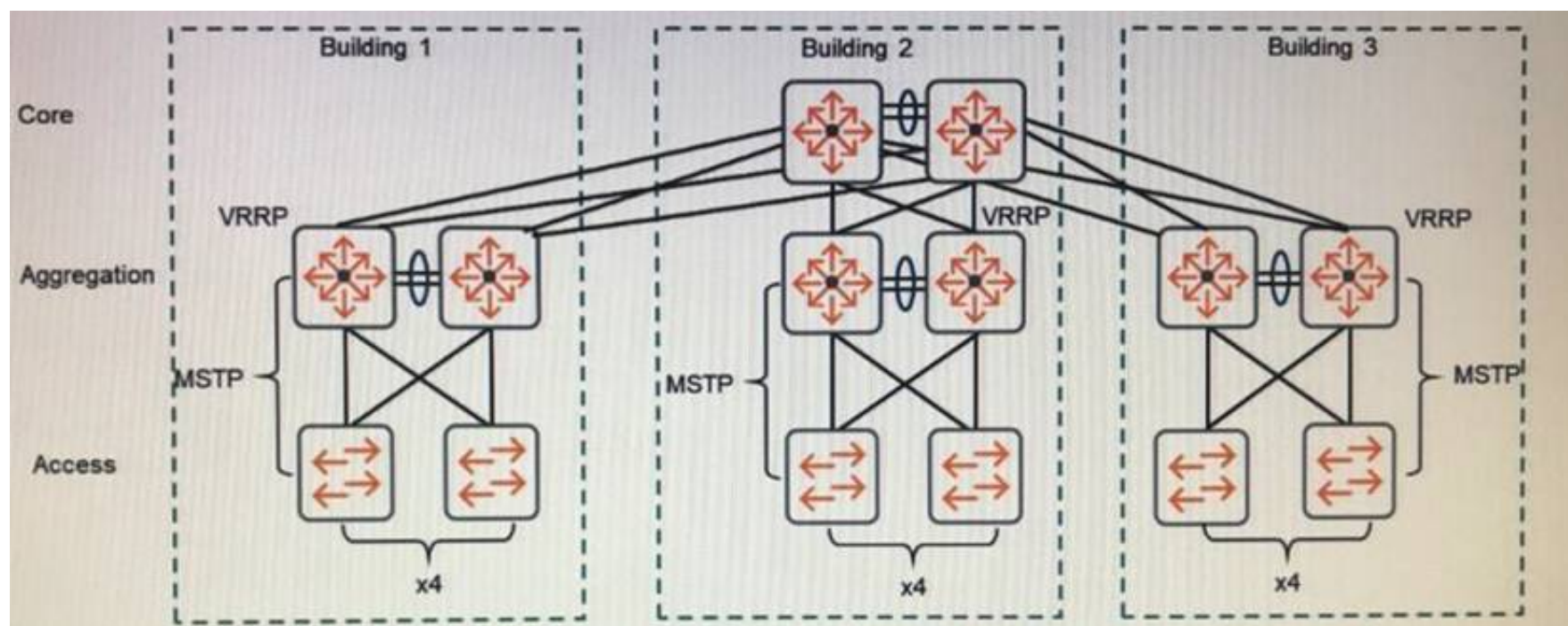
A customer has several clusters of Aruba 325 Instant APs. The customer is happy with the performance of the current APs, but would like to add a Mobility Controller (MC). What should the architect propose?

- 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 57

Refer to the exhibit.



A customer wants to replace the core and aggregation layer of an existing network. Currently the network routes between the aggregation layer and core, and uses the technologies shown in the exhibit.

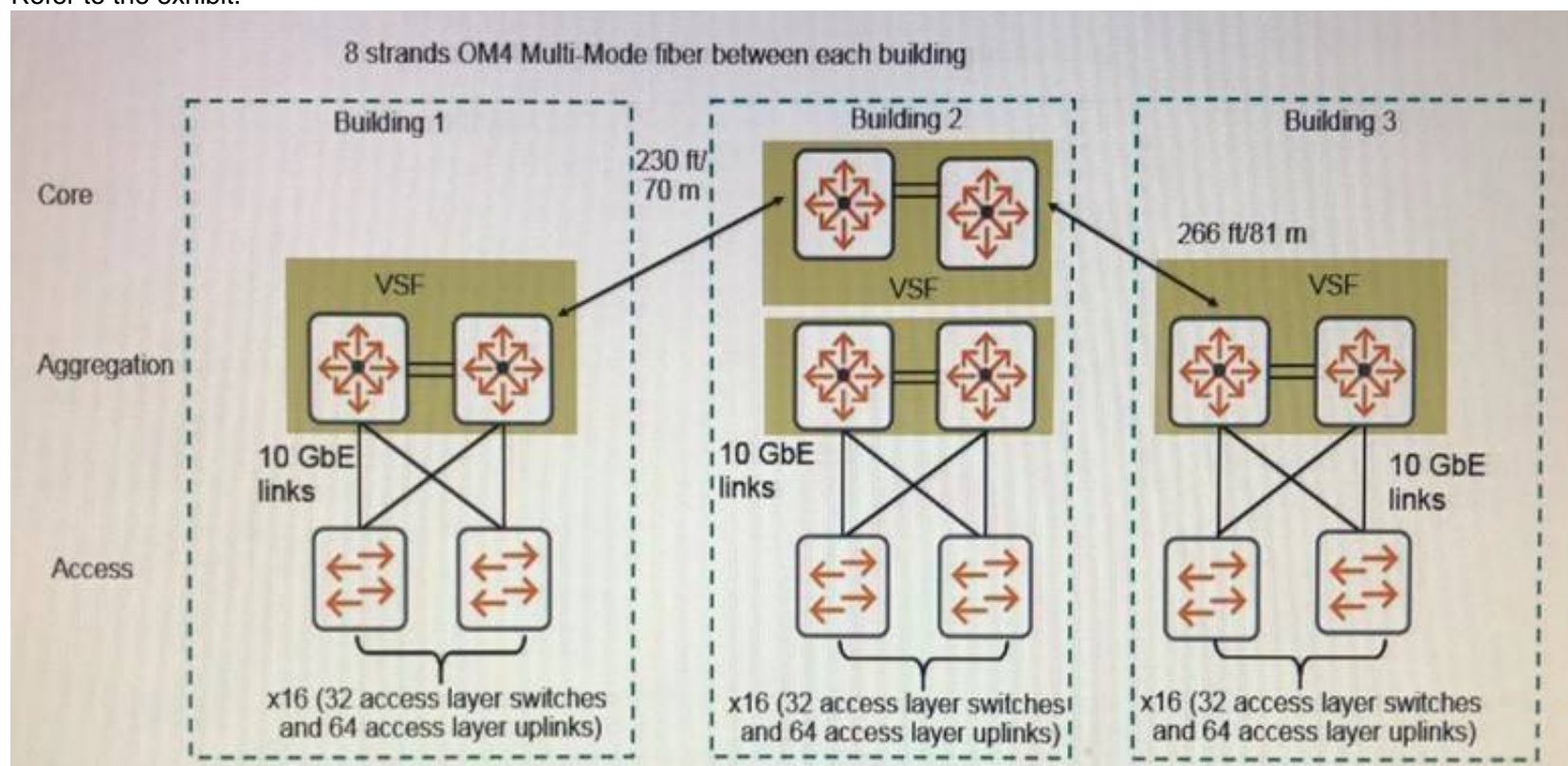
The customer now wants to route at the core, instead of the aggregation layer, and extend some of the same VLANs in different buildings. However, the customer cannot eliminate the aggregation layer at this point. What should the architect recommend?

- A. Create a backplane stack at the aggregation layer and a VSF fabric at the core.
- B. Implement broadcast filtering on switch-to-switch links across all of the buildings.
- C. Combine all switches in the aggregation layer and core into a single backplane stack.
- D. Use VRRP on the core and aggregation switches, with the aggregation switches acting as standby.

**Answer: C**

#### NEW QUESTION 62

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 66

A customer has a small office building that needs approximately 32 APs. The solution must support basic rogue AP detection and provide a stateful firewall with role-based policies. The customer would like the simplest, most cost-effective deployment that meets their needs. What should the architect recommend?

- A. Aruba remote APs
- B. Aruba campus APs and a Virtual Mobility Controller
- C. Aruba Instant APs
- D. Aruba campus APs and an Aruba 7005 Mobility Controller

**Answer: D**



#### NEW QUESTION 68

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 70

A customer needs a networking solution that supports their Microsoft Skype for Business Unified Communications (UC) solution. The architect discovers that user wireless devices are Wi-Fi Multimedia (WMM) capable. Windows policies assign voice traffic DSCP 46 and video traffic DSCP 34. Which potential issue should the architect explain to the customer about the default QoS settings?

- A. The DSCP values place both voice and video traffic in the video VMM queue, so voice does not receive the prioritization that is should.
- B. The Aruba APs and controllers use different prioritization mechanism from WMM, so they will not accept high priority traffic from the wireless devices.
- C. DSCP is incompatible with WM
- D. The Aruba APs and controllers instead use 802.1p to mark traffic to and from wireless devices.
- E. The DSCP for wireless client traffic is concealed within the GRE packet on the path from the AP to the controller, and does not take effect.

**Answer:** A

#### NEW QUESTION 71

An architect needs to plan the RF coverage. Which application has the greatest potential impact on RF design?

- A. print
- B. email
- C. voice
- D. secure web browsing

**Answer:** D

#### NEW QUESTION 76

What is a key criteria that an architect should use to choose between an Aruba 7000 Series or 7200 Series Mobility Controller (MC)?

- A. the number of wireless devices that the MC needs to support
- B. whether the MC needs to terminate VPN tunnels
- C. the need to deploy controllers in a cluster
- D. whether the MC needs to support advanced 8.x features

**Answer:** A

#### NEW QUESTION 80

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 85

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