HPE6-A49$^{Q\&As}$

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QUESTION 1

Case study

A retailer needs a wireless and wired network upgrade, as well as an authentication and access control solution for a network that includes a main office with a three-floor building and six branch sites. The branch users all use resources at the main corporate office. Branch office employees will use wireless connections. At the main office, employees use wired and wireless connections. The customer wants the strongest authentication for employee wireless connections. It is also important that the MC role-based firewall can implement consistent access controls on employee connections no matter where the employees connect and no matter how they connect (wirelessly or, at the main site, wired). The customer also needs to provide complimentary wireless access for guests. Guest should be redirected to a portal, through which they can register and login. The customer would like two SSIDs, CompanyXEmployee and CompanyXGuest. The company wants to divide employees in two groups, managers and staff. In the corporate network, managers should only have access to Server Group Managers and staff should only have access to Server Group Staff. Each server group includes necessary services such as domain and DHCP, as well as servers that the employees access to do their jobs. All employees should also have access to the Internet. Guests should only have HTTP and HTTPS access, and only to the Internet.

The customer has: a maximum of 1000 employee devices a maximum of 100 guest devices at the same time 500 devices on wired ports at the main site, which will be supported by 12 new AOS-Switches (mostly employee laptops, as well as a few non-802.1X capable printers, which should just communicate with print servers)

The devices used by employees include 450 company-issued laptops, which the company wants to screen for security issues and violations of security policies. All authentications are assumed to be concurrent.

To fulfill the requirements for the wireless network upgrade, the architect plans to propose: 5 RAPs at each of 6 branch sites 60 APs at the main site

The architect will also propose an MM and ClearPass. The architect still needs to plan the Mobility Controllers (MCs). The customer requires high availability for wireless services and redundancy for the MCs. If a single MC fails, the network must continue to function without impact. If an MC fails, the customer must also receive a replacement component for the failed component by the next business day so that their IT staff can install it and get the network back to normal operation as soon as possible. Software upgrades must also be seamless, without the introduction of any downtime for wireless services, and the customer needs to be able to obtain the latest software over the lifetime of the solution for the next several years.

Which plan for the VLANs assigned to users at the main site follows the best practices? (Note that the infrastructure could have additional VLANs in various locations; this plan refers only to user VLANs.)

A. VLAN 10 for wired and wireless manager devices; VLAN 11 for wired and wireless staff devices; VLAN 12 for all wireless guest devices

B. VLAN 10-12 for wireless employee devices on Floors 1-3 (divided by floor); VLANs 13-15 for wireless guest devices on Floors 1-3; VLANs 16-18 for wired employee devices on Floors 1-3

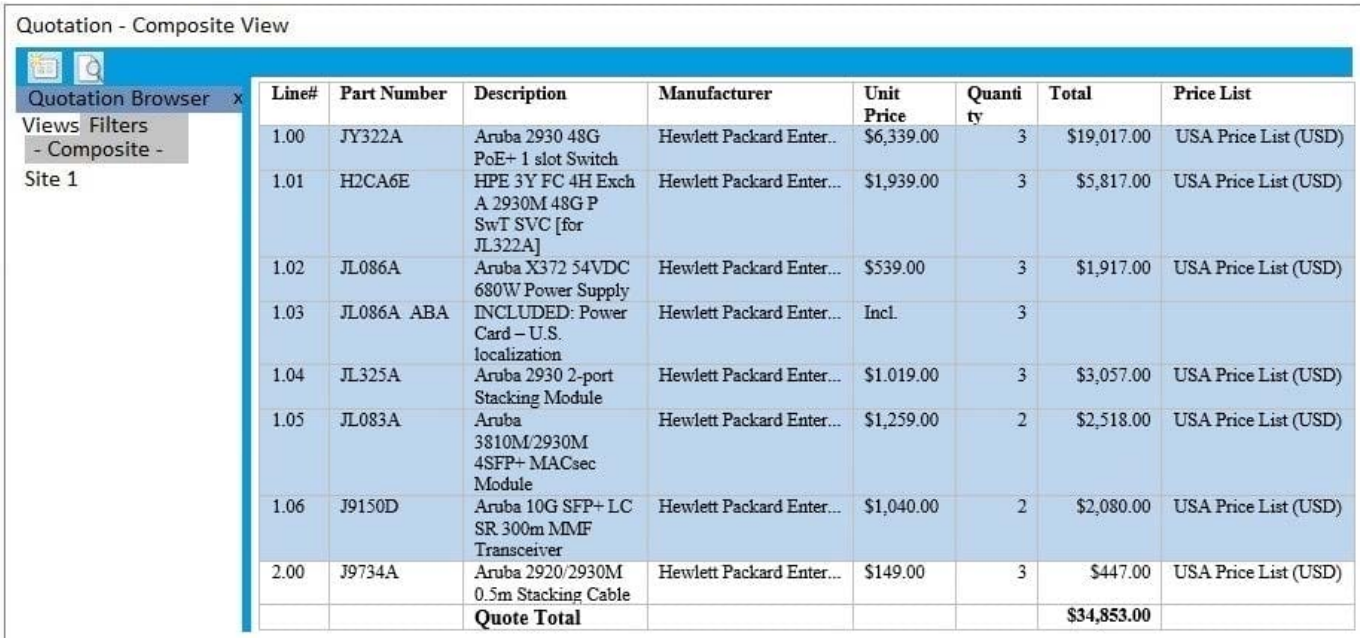
C. VLAN 10 for all wireless devices; VLANs 12-14 for wired employee devices on Floors 1-3 (divided by floor)

D. VLAN 10 for wireless employee devices; VLAN 11 for wireless guest devices; VLANs 12-14 for wired employee devices on Floors 1-3 (divided by floor)

Correct Answer: A

QUESTION 2

Refer to the exhibit.


Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quanti ty	Total	Price List
1.00	JY322A	Aruba 2930 48G PoE+ 1 slot Switch	Hewlett Packard Enter..	$6,339.00	3	$19,017.00	USA Price List (USD)
1.01	H2CA6E	HPE 3Y FC 4H Exch A 2930M 48G P SwT SVC [for JL322A]	Hewlett Packard Enter...	$1,939.00	3	$5,817.00	USA Price List (USD)
1.02	JL086A	Aruba X372 54VDC 680W Power Supply	Hewlett Packard Enter...	$539.00	3	$1,917.00	USA Price List (USD)
1.03	JL086A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	3		
1.04	JL325A	Aruba 2930 2-port Stacking Module	Hewlett Packard Enter...	$1.019.00	3	$3,057.00	USA Price List (USD)
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	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	2	$2,080.00	USA Price List (USD)
2.00	J9734A	Aruba 2920/2930M 0.5m Stacking Cable	Hewlett Packard Enter...	$149.00	3	$447.00	USA Price List (USD)
		Quote Total				**$34,853.00**	

A writing closet needs to support these devices: 100 desktops 5 printers 20 AP-345s

The customer wants to single-home the AP-345s and support higher than 1GbE speeds on the AP connections to future proof. The customer also requires that the closet have two 10GbE links to the core with SR transceivers. The exhibit shows the preliminary plan for this closet.

Which correction should the architect make to the plan to meet the customer requirements?

A. Change all of the switches to the Aruba 2930M 40G 8 HPE Smart Rate PoE+ 1-Slot Switch.

B. Change one switch to the 2930M 24-port Smart Rate PoE+ model.

C. Add a 4-port SFP+ module to one of the switches.

D. Add a Smart Rate module to each of the switches.

Correct Answer: C

QUESTION 3

A customer has an Aruba wireless network, which includes two MC 7205s and an MM at the network core. The company now wants to accommodate 50 mobile trainers. These trainers travel around the world and run training events. The trainers often need to access materials in the company data center, but cannot reach materials when they are on the road.

The company wants to give the mobile workforce a secure way to reach the materials they need no matter where they are, including in public spaces like the hotels where they often teach. The customer also requires that the solution be as cost effective as possible while meeting the requirements.

Which plan meets the needs of the mobile trainers?

A. Add 50 VIA licenses to the MM, and deploy two 7005 MCs in the DMZ.

B. Add 50 RAPs; add 50 Enterprise licenses and 50 VIA licenses to the MM.

C. Add 50 RAPs; add 50 Enterprise licenses to the MM, and add two 7005 MCs in the DMZ.

D. Add 50 PEFV licenses to the MM, and add additional 7205 MC to the core.

Correct Answer: B

QUESTION 4

A writing closet needs to support 20 APs and 110 wired endpoints. It has four strands of OM3 fiber to the network core 150 feet (45 m) away. The customer wants the links to the network core to support at least 10GbE. The customer also requires no loss in connectivity for the switches in the closet, even with the loss of one link. The architect plans to recommend three 2930M 40G 8SR PoE+ switches, two 4-port SFP+ modules, and two SFP+ SR transceivers.

What should the architect change about the plan?

A. Add three 10GbE direct attach cables (DACs) or three stacking cables.

B. Add a stacking module for each switch and three stacking cables.

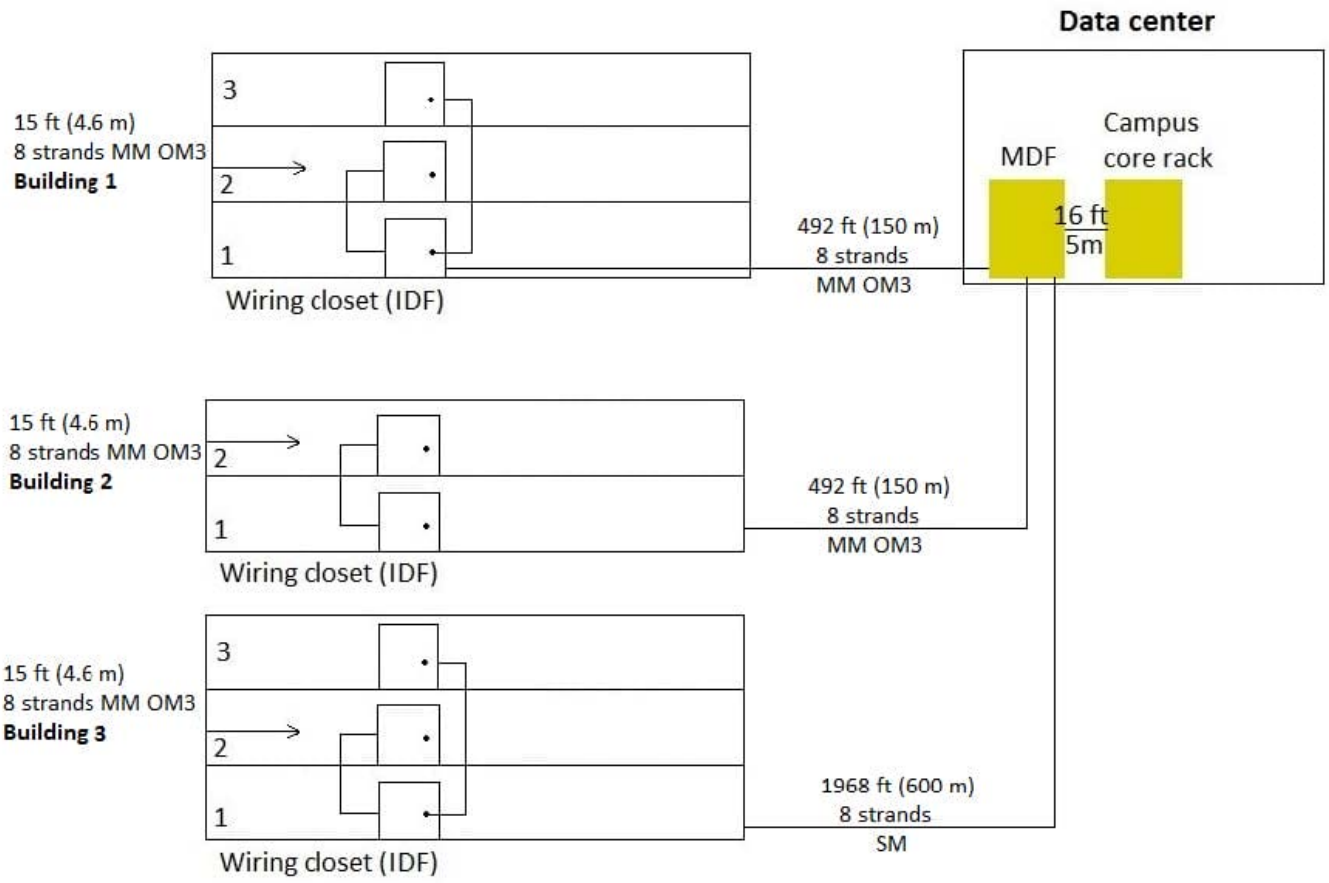
C. Change the two SFP+ SR transceivers to SFP+ LRM transceivers.

D. Add one 4-port SFP+ module and one SFP+ SR transceiver.

Correct Answer: A

QUESTION 5

Refer to the exhibit.



An architect needs to design the topology for a new wired network at a campus with three buildings. The exhibit above shows the cabling layout. The customer requires link redundancy at all layers, up to one switch-to-switch link can fail without an effect on client connectivity. The architect has determined that the closet of each floor should have three Aruba 2930M switches, and the core will use Aruba 5406 switches. The aggregation layer, if used, will use Aruba 3810M switches. However, the customer prefers the elimination of the aggregation layer and has asked the architect to advise the impact of the elimination of this layer.

Where would the elimination of the aggregation layer require rewriting?

A. All of the buildings

B. Building 1 and Building 2 only

C. Building 1 and Building 3 only

D. Building 3 only

Correct Answer: C