HPE6-A49^{Q&As}

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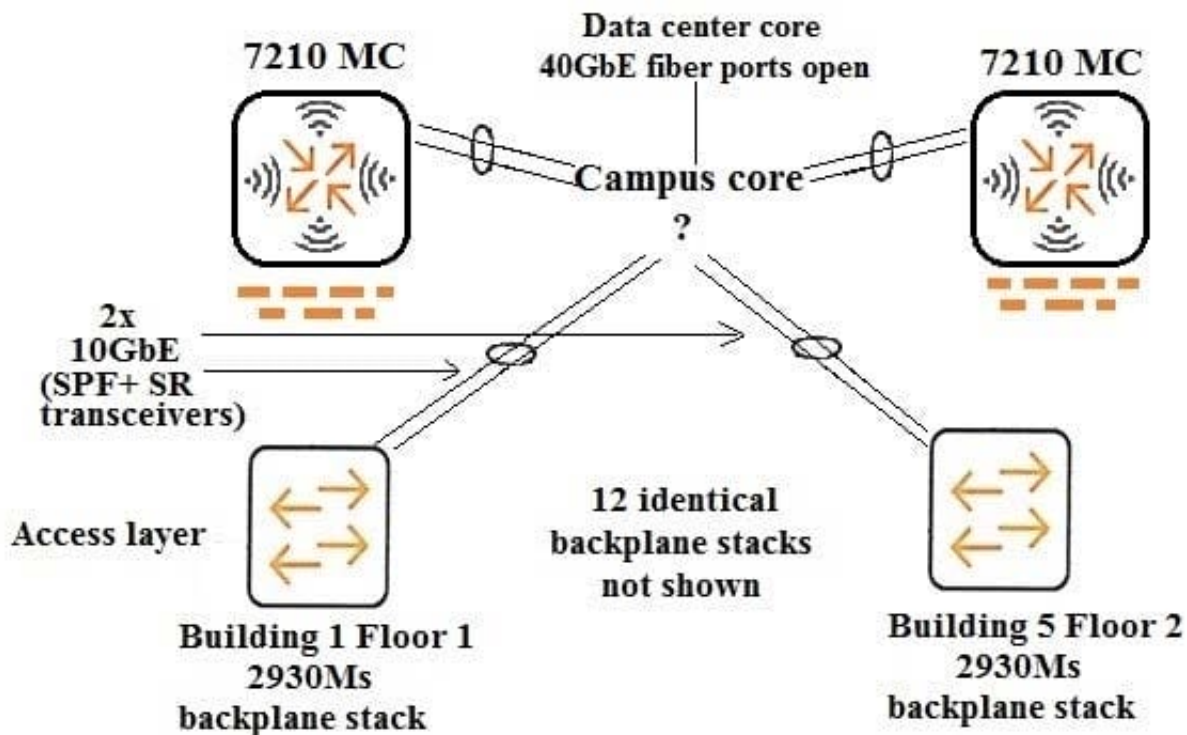
QUESTION 1

Refer to the exhibit.

Exhibit: A49.01114316-77

An architect has planned the wireless and wired access layers for a network upgrade. The entire solution

must support 9,000 wireless devices and 2,250 wired endpoints.

The campus core must meet these requirements:

no more than 4:1 oversubscription on the links to the data center

switch-level redundancy near instant failover if one core switch fails link aggregations between access layer and core same switch software used across the entire campus

Which exhibit shows a campus core that meets the customer needs?

A.

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter...	$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter...	$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter...	$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$6,799.00	4
1.08	JL308A	Aruba 40G QSPF+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	$419.00	2
		Quote Total			

B.

C.

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 zl2 Switch	Hewlett Packard Enter...	$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 zl2 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R zl2 Switch SVC [for JL095A]	Hewlett Packard Enter...	$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx zl Startup SVC [for JL095A]	Hewlett Packard Enter...	$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ zl2 PSU	Hewlett Packard Enter...	$799.00	2
1.05	J9828A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.06	J91500	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.07	J9996A	Aruba 2p 40GbE QSFP+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$6,799.00	4
1.08	JL308A	Aruba 40G QSPF+ LC BiDi 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
		Quote Total			

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter...	$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter...	$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
2.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	$419.00	2
		Quote Total			

D.

Quotation - Composite View

Quotation Browser x
Views Filters
- Composite -
Site 1

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL479A	Aruba 8320 48 10/6 40 X475 5 2 Bundle	Hewlett Packard Enter...	$24,995.00	2
1.01	JL479A ABA	INCLUDED: Power Card – U.S. localization	Hewlett Packard Enter...	Incl.	2
1.02	H8XK5E	HPE 3Y FC 24x7 Aruba 8320 SWT SVC [for JL479A]	Hewlett Packard Enter...	$8,093.00	2
1.03	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	$1,040.00	32
1.04	JL30BA	Aruba 40G QSFP+ LC BDI 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	$1,095.00	2
		Quote Total			

Correct Answer: B

QUESTION 2

An architect has recommended the deployment or RAPs at user home offices to provide access to the corporate LAN.

How should the architect plan the SSID for the RAPs?

A. Same SSID and security settings as the corporate SSID

B. any name for the SSID with MAC-Authentication

C. any name for the SSID, which would be open; VIA is used for security

D. same name used for the corporate SSID, but always with WPA2-Personal security

Correct Answer: A

QUESTION 3

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 4

Case study

A customer needs a wireless network upgrade for 802.11ac and possibly an upgrade to the wired network.

The customer requires dual-radio 802.11ac APs, each radio of which can support 4x4 MIMO at full feature

set.

The customer has given architects this information about their wireless devices:

2700 IoT devices which will have only wireless connections; they support WPA2 with 802.1X

300 on each floor in 3 buildings with 3 floors each

5,400 users, who use devices such as laptops and smartphones

600 users on each floor in 3 buildings with 3 floors each

24 security cameras which will have only wireless connections; they support WPA2 with 802.1X and have

a local power source

4 on floor 1 of each of the 3 buildings

2 on the other 6 floors

The architect also has collected information about the existing wired network.

The existing access layer switches support these features:

10/100/1000 edge ports

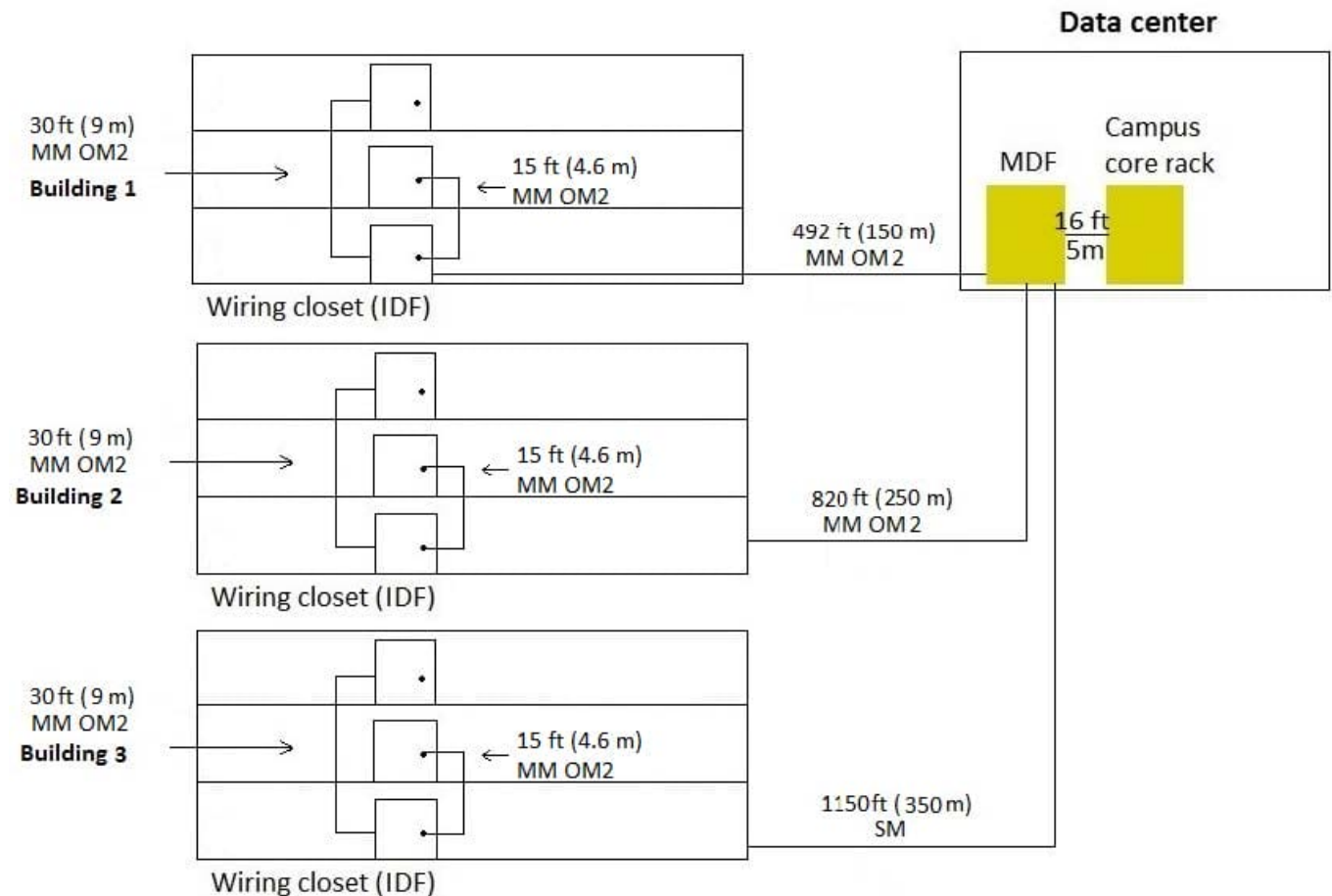PoE (802.3af)

1GbE fiber uplinks

The existing aggregation switches support these features:

1/10GbE fiber ports

ARP tables up to 62,000

The customer has provided this figure that shows the existing cabling between floors and between

buildings:

Each floor is about 100 feet (30 m) by 140 feet (43 m) with a 10 foot (3 m) ceiling. Interior walls are drywall. The layout for each floor is similar to that shown below. CAT5e cable is extended to all areas.

Wiring closet
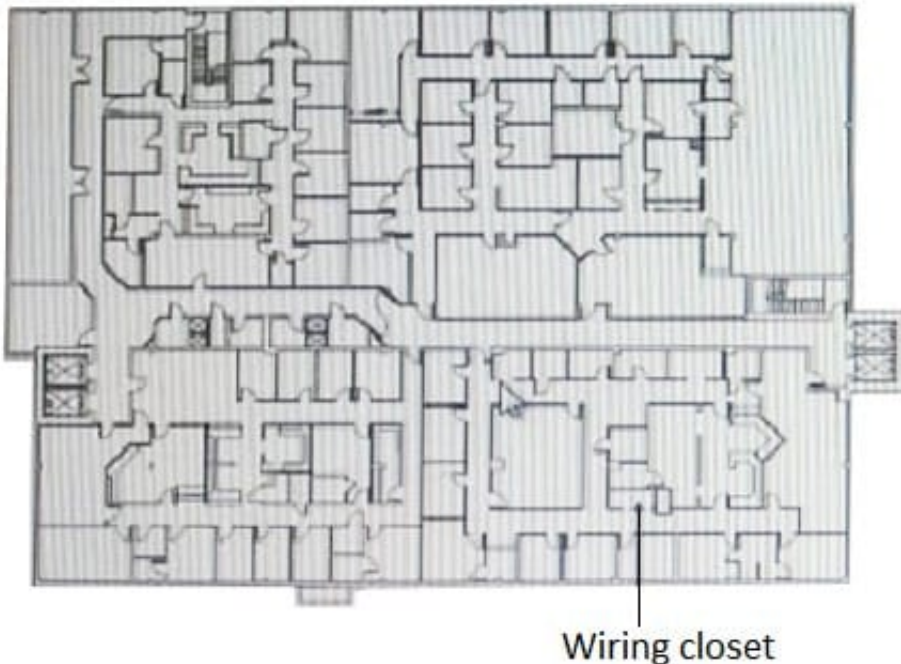
What is one piece of additional information architects should obtain from the customer before they design the wireless solution?

A. whether the users sometimes connect their laptops with Ethernet

B. whether the IoT devices support MAC-Auth

C. the number of concurrently used wireless devices per user

D. the power requirements for the security cameras

Correct Answer: C

QUESTION 5

In which scenario do Aruba 2930M Series switches, but not Aruba 2930F Series switches, meet the needs for an upgrade of the wired access layer?

A. Each switch must support 48 1Gbps edge ports, and the uplinks must be redundant as well as provide no worse than 10:1 oversubscription.

B. The customer requires enhanced redundancy at the access layer and wants to ensure that each switch can continue to operate even if a power supply fails.

C. The customer requires switches in the same closet to connect together into a single virtual switch that is managed and operates as a single device.

D. Each switch must support mostly non-PoE devices, but also at most four Aruba AP-345s which require PoE+ to support the full requirements for the customer scenario.

Correct Answer: A

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