

HPE6-A49.VCEplus.premium.exam.60q

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HPE6-A49

Aruba Certified Design Expert 8



Exam A

QUESTION 1

Refer to the exhibits.

Exhibit 1. Existing wiring plan:

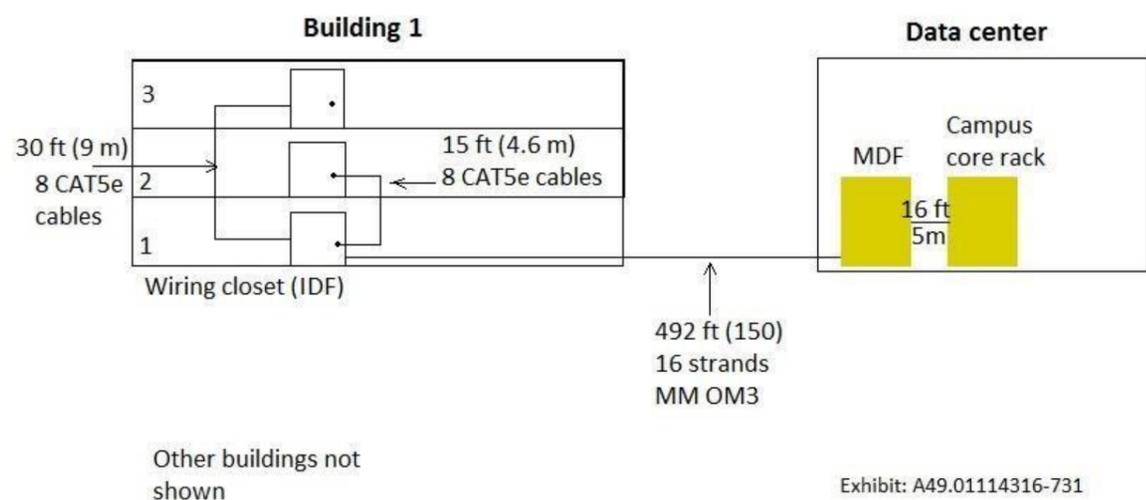


Exhibit 2. Current proposal:

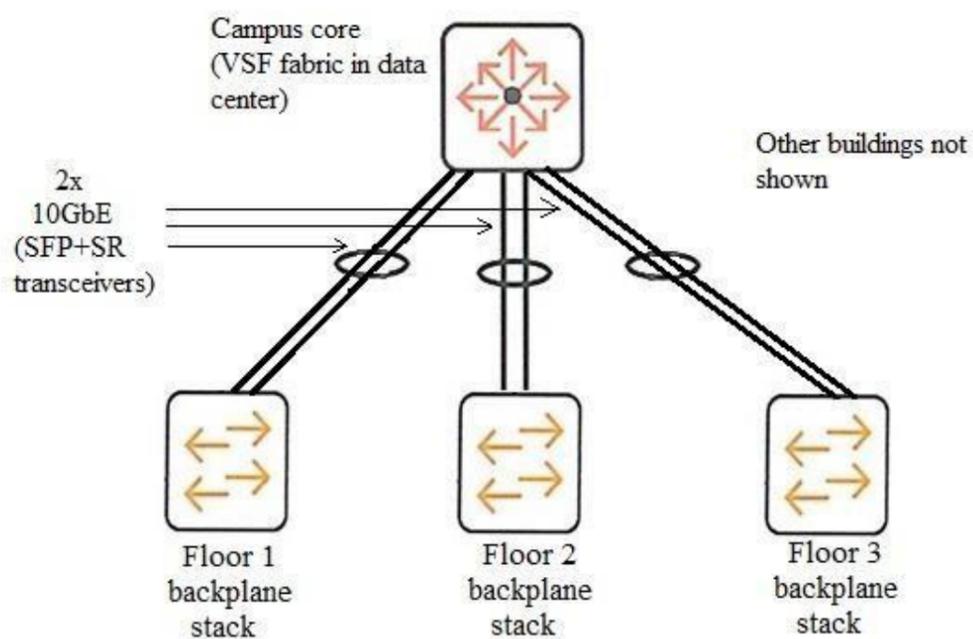


Exhibit: A49.01114316-732

A customer has a building that needs a switch upgrade. The customer would like at least 20Gbps for the uplink bandwidth out of each closet. The building wiring plan is shown in Exhibit 1. The customer will not consider any cable upgrades at this point. The current proposal is shown in Exhibit 2.

Which correction must architect make to the proposal to meet the customer requirements?

- A. Change the SR transceivers for each link between the writing closet switches and the network core to LRM transceivers.
- B. Add an aggregation layer, and connect writing closet switches to the aggregation layer on Smart Rate ports.
- C. Add an aggregation layer, and connect writing closet switches to the aggregation layer with SFP+ SR transceivers.

D. Add a mode conditioning cable for each link between the writing closet switches and the network core.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2

What is one customer requirement that can drive the need for a relatively dense AP deployment, in which the coverage areas of at least three AP radios overlap?

- A. support for beacon management
- B. AP operation as hybrid AMs for IDS/WIPS
- C. the deployment of dual 5GHz radio APs
- D. location tracking of wireless IoT devices

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 3

Refer to the exhibit.

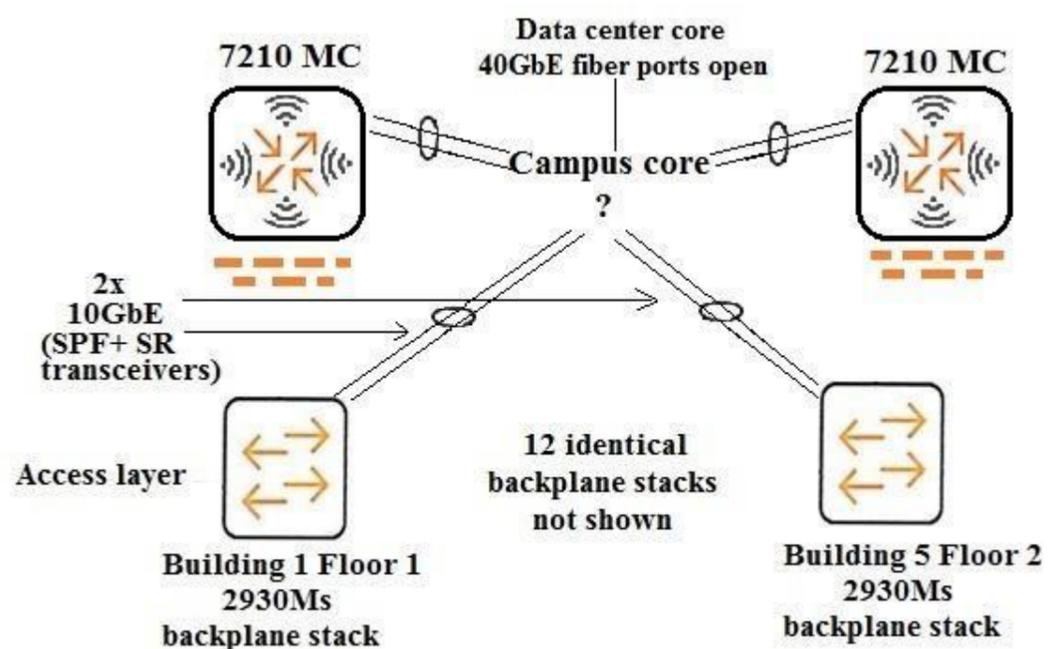


Exhibit: A49.01114316-77

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

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 z12 Switch	Hewlett Packard Enter...	\$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 z12 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R z12 Switch SVC [for JL095A]	Hewlett Packard Enter...	\$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx z1 Startup SVC [for JL095A]	Hewlett Packard Enter...	\$2,325.00	2
1.04	J9828A	Aruba 5400R 700W PoE+ z12 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					

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity
1.00	JL095A	Aruba 5406R 16SFP+ v3 z12 Switch	Hewlett Packard Enter...	\$9,599.00	2
1.01	J9993A	INCLUDED: Aruba 8p 1G/10GbE SFP+ v3 z12 Mod	Hewlett Packard Enter...	Incl.	4
1.02	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R z12 Switch SVC [for JL095A]	Hewlett Packard Enter...	\$4,094.00	2
1.03	U4832E	HPE Networks 54xx/82xx z1 Startup SVC [for JL095A]	Hewlett Packard Enter...	\$2,325.00	2
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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

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					

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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					

exhibit shows a campus core that meets the customer needs? A.

B.



C.

D.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

A customer has an existing Aruba network, which currently supports up to 9,000 wireless client devices. The existing network includes these components:

- Four 7210 MCs
- Five 7030 MCs
- 200 AP-303HRs

- 300 AP-345s

The customer wants to convert to an ArubaOS 8.x architecture. The architect plans to deploy a virtual MM. Which exhibit shows the correct BOM for the MM? A.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY895AAE	Aruba MM-VA-500 Mobility Master SW E-LTU	Hewlett Packard Enter...	\$10,495.00	1	\$10,495.00	USA Price List (USD)
1.01	HSU09E	Aruba 1Y FC 24x7 MM-VA-500 ELTU SVC [for JY895AAE]	Hewlett Packard Enter...	\$1,616.00	1	\$1,616.00	USA Price List (USD)
1.02	JW471AAE	Aruba-LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...)	Hewlett Packard Enter...	\$300.00	300	\$90,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE]	Hewlett Packard Enter...	\$46.00	300	\$13,800.00	USA Price List (USD)
Quote Total						\$115,911	

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-500 Mobility Master SW E-LTU	Hewlett Packard Enter...	\$17,495.00	1	\$17,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-500 ELTU SVC [for JY896AAE]	Hewlett Packard Enter...	\$2,701.00	1	\$2,701.00	USA Price List (USD)
1.02	JW471AAE	Aruba-LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...)	Hewlett Packard Enter...	\$300.00	500	\$150,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE]	Hewlett Packard Enter...	\$46.00	500	\$23,000.00	USA Price List (USD)
Quote Total						\$193,196	

B.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896.AAE	Aruba MM-VA-1K Mobility Master SW E-LTU	Hewlett Packard Enter...	\$17,495.00	1	\$17,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-1K ELTU SVC [for JY896.AAE]	Hewlett Packard Enter...	\$2,701.00	1	\$2,701.00	USA Price List (USD)
Quote Total						\$20,196.00	

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896.AAE	Aruba MM-VA-1K Mobility Master SW E-LTU	Hewlett Packard Enter..	\$10,495.00	1	\$10,495.00	USA Price List (USD)
1.01	HSUE9E	Aruba 1Y FC 24x7 MM-VA-1K ELTU SVC [for JY896.AAE]	Hewlett Packard Enter...	\$1,616.00	1	\$1,616.00	USA Price List (USD)
1.02	JW471.AAE	Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...	Hewlett Packard Enter...	\$300.00	500	\$150,000.00	USA Price List (USD)
1.03	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471.AAE]	Hewlett Packard Enter...	\$46.00	500	\$23,000.00	USA Price List (USD)
Quote Total						\$185,111	



C.

D.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

A customer has multiple medium and large branch sites, each of which requires between 8 and 16 APs and supports between 200 and 600 wireless clients. Every branch site has an internet connection, which it uses to reach the central data center. The customer would prefer the WAN links to be optimized in the solution.

Each site handles between 1 and 2 Gbps of traffic, most of which goes to the central data center. The data center has 7210 controllers for terminating the VPN connections. Which branch office solution best meets the customer needs?

- A. CAPs and branch office controllers with an SD-WAN license
- B. IAPs and no branch office controllers
- C. CAPs and branch office controllers
- D. RAPs and no branch office controllers

Correct Answer: B

Section: (none)

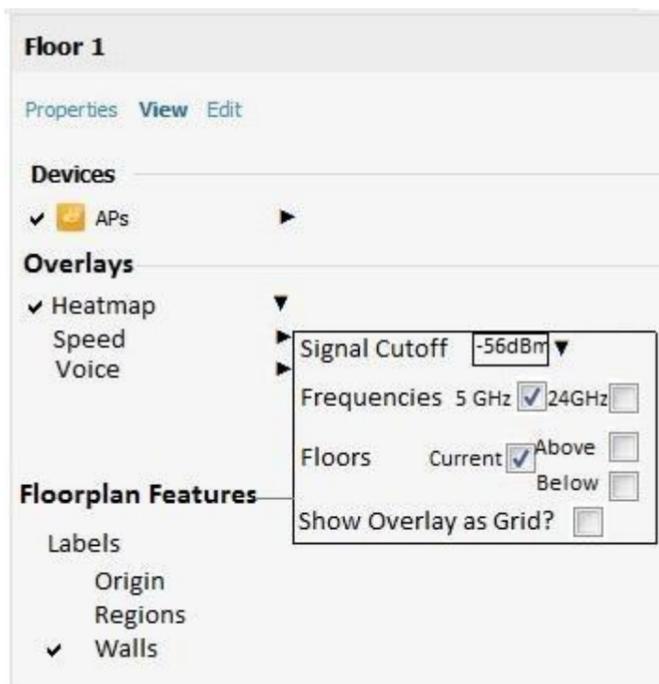
Explanation

Explanation/Reference:

QUESTION 6







A hospital needs an upgrade to 802.11ac for its wireless network. The wireless network supports:

- wireless medical devices
- medical staff voice communicators
- laptops in nurse stations
- medical staff tablets
- visitor and patient personal devices

All of these devices support both the 2.4GHz and 5GHz band. Assuming about a max throughput of 150 Mbps per AP, the hospital would like to support about 4 Mbps per client.

The architect has used VisualRF to plan the AP placement on one of the floors, which the hospital expects will need to support about 800 wireless devices. The exhibits show heatmaps from this plan. The architect also plans to deploy APs in stairwells between floors.

How well does the plan meet the requirements?

- A. The current AP placement fails to account for the lead-lined walls that are common in patient and exam rooms.
- B. The current AP placement fails to provide adequate signal for the voice communicators in several areas.
- C. The current AP placement meets coverage requirements, but does not meet capacity requirements.
- D. The current AP placement meets the customer requirements in terms of coverage and capacity.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7 An indoor sports stadium has 5,000 seats in two rings:

- The stadium has a ceiling height of 60 feet (18m).
- There is a catwalk around the perimeter of the court, between the court and the seating areas. This catwalk is 40 feet (12m) from the floor.
- There are two scoreboards at either end of the stadium.
- The construction of the stadium is concrete and steel.

The customer does not want an under-seat, pico cell deployment, and the customer requires 802.11ac Wave 2. Which AP model is appropriate to provide coverage in the main stadium bowl?

- A. AP-228
- B. AP-344
- C. AP-365
- D. AP-375

Correct Answer: A

Section: (none)

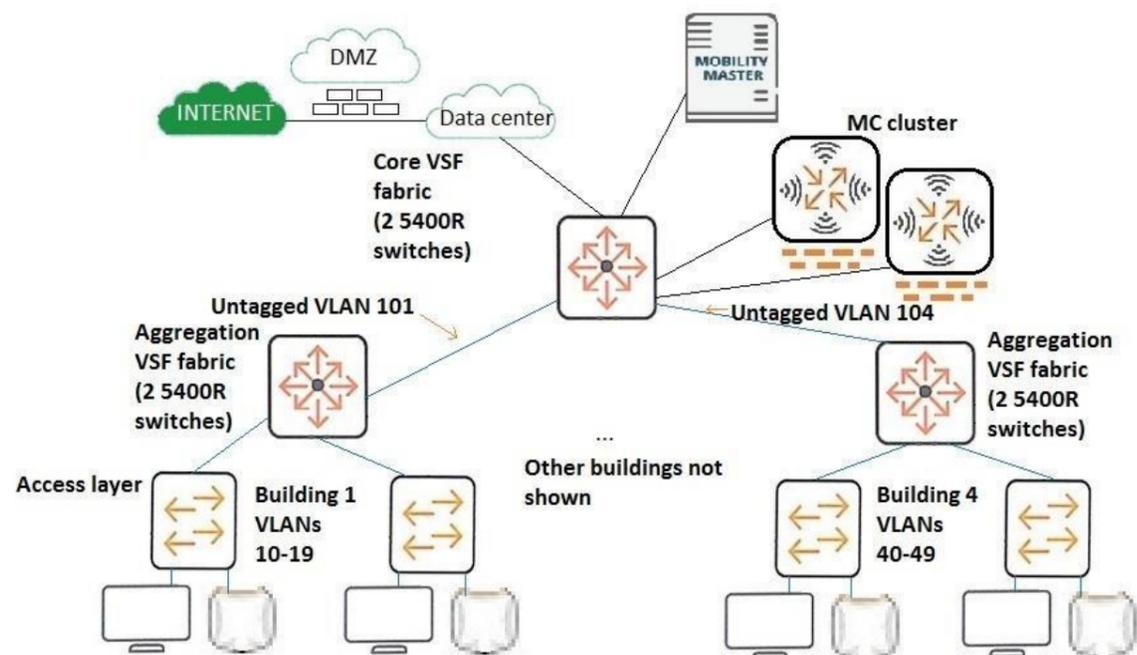
Explanation

Explanation/Reference:

Reference: https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=2ahUKEwio_PnKt_jiAhVysXEKHS3hC74QFjAAegQIAxAC&url=https%3A%2F%2Fcommunity.arubanetworks.com%2Faruba%2Fattachments%2Faruba%2FARuba-VRDs%2F54%2F5%2FARuba_VHD_VRD_Planning_Guide.pdf&usq=AOvVaw1eQmHge6ZyitjnaCWrk1z

QUESTION 8

Refer to the exhibit.



A customer has a wired infrastructure shown in the exhibit. The customer is in the process of expanding their wireless services. They will now add a new wireless solution, with mobility controllers (MCs) connected as shown. The new wireless solution will support a total of 450 APs and about 26,000 wireless devices. It must provide seamless roaming across the entire campus.

After the new deployment, both wired and wireless devices experience IP connectivity issues.

Which change to the existing infrastructure should the architect recommend to support all of the customer requirements? A.

The MCs should be moved to the aggregation layer, and more MCs added.

B. The core and aggregation switches should disable Virtual Switching Framework (VSF).

C. The core switches should be replaced with switches that have larger ARP tables.

D. The wired VLANs should be combined into a single VLAN and /16 subnet.

Correct Answer: B

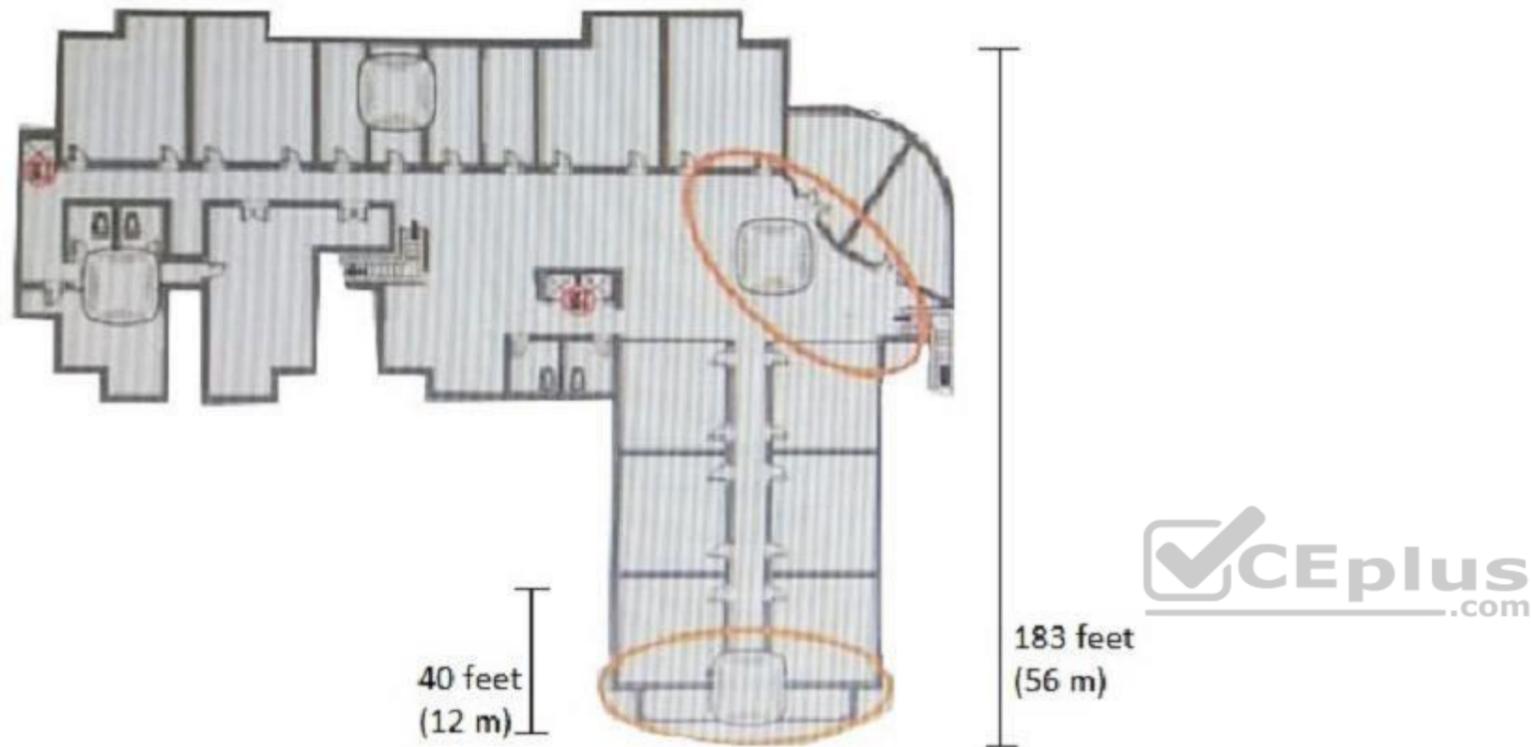
Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Refer to the exhibit.



A casino and a retail space has an existing Aruba network with Aruba AP-335s. The customer wants to deploy Meridian and enable proximity-based campaigns. The exhibit shows a segment of the floor plan. When visitors enter the areas circled in the exhibit, they should receive a targeted notification about promotions and sales. What should the architect explain to the customer about how to finish the solution?

- A. This solution will require about 6 battery-powered beacons, which can be managed by the APs.
- B. While these APs cannot act as beacons, they have a USB slot that accepts USB beacons.
- C. The customer can enable the built-in BLE capability in the AP-335 radio to meet these requirements.
- D. The customer must remember to purchase a Meridian Maps license with the Campaigns license.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Refer to the exhibit.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY680A	Aruba AP-303H (US) Unified AP	Hewlett Packard Enter..	\$495.00	200	\$99,000.00	USA Price List (USD)
1.01	H6PQ1E	Aruba 1Y FC NBD Exch AP-303H SVC [for JY680A]	Hewlett Packard Enter...	\$22.00	200	\$4,400.00	USA Price List (USD)
Quote Total						\$103,400	

A hotel needs a wireless solution. The architect has selected 303H Series, controlled by a local MC, as the best choice. The hotel plans to have the APs installed in the existing wall boxes which have one Ethernet port each. The architect has created to BOM shown in the exhibit. (Note that this portion of the BOM does not include the MC, which is not part of this question.) Which additional clarification should the architect seek to determine whether this BOM fully meets the customer needs?

- A. whether the hotel wants to deploy the APs as RAPs or CAPs
- B. whether the hotel has CAT5e patch cables long enough to reach the boxes
- C. whether directional or omnidirectional external antennas work better for the APs
- D. whether the hotel already has a PoE or PoE+ source

Correct Answer: D

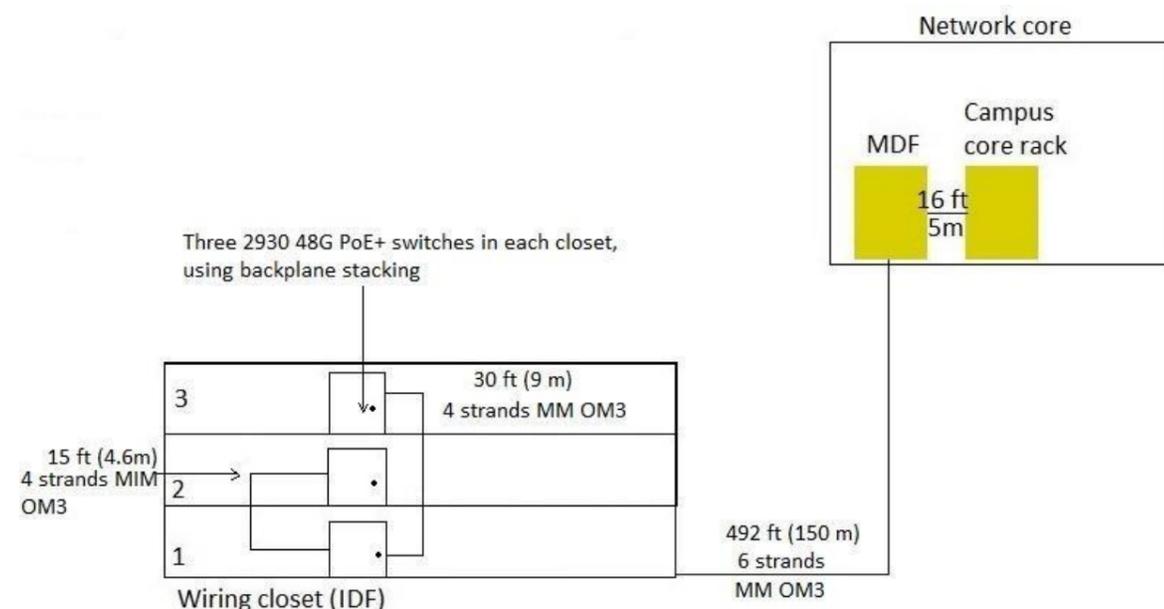
Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

Refer to the exhibit.



A customer needs a wired upgrade for a building on its main campus. The exhibit shows the switches that architect has selected for each closet and the existing cabling. The customer is not open to changing the cabling. The customer requires link redundancy for the uplinks from each closet and for the links from the building to the core. In non link failure situations, the uplinks from each closet must support at least 20 Gbps, and the building as a whole must have at least 20 Gbps to the core in non link failure situations.

Which options for connecting the closets to the network core are valid? (Select two.)

- A. Connect the switch stack on each floor directly to the network core on two fiber connections per floor. Achieve this by patching the inter-floor fiber through the inter-building fiber.

- B. Add two aggregation switches in the Floor 1 closet. Connect the switch stack for each closet to the aggregation switches on two fiber links each and the aggregation switches to the core on two fiber links.
- C. Combine the nine switches on all three floors into a single switch stack with stacking cables in a ring topology. Connect two Floor 1 members to the network core with one fiber connection each.
- D. Combine the nine switches on all three floors into a single switch stack with the MM OM3 fiber cables in a ring topology. Connect two Floor 1 members to the network core with one fiber connection each.
- E. Connect the Floor 2 switch stack to Floor 1 with two fiber connections. Do the same for Floor 3. Connect the Floor 1 switch stack to the network core with two fiber connections.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

A customer has phones used as wireless Voice over IP (VoIP) devices.
Which is one implication for the design?

- A. Plan policies for the phone role on MCs to give the phones a high QoS priority.
- B. Ensure a -75 GHz signal in both the 2.4GHz band and the 5GHz band across the entire site.
- C. Ensure that APs connect on Smart Rate ports to support the high bandwidth demands of the phones.
- D. Apply a bandwidth contract to the phone VLAN to limit broadcast and multicast traffic.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13 What is one reason to deploy an Aruba 8320 switch when compared to an Aruba 5400R switch?



- A. to support cloud-based management and guest services through Aruba Central integration
- B. to obtain a great number of options for types of ports, including PoE and non-PoE
- C. to enhance network monitoring and analytics
- D. to support Zero Touch Provisioning (ZTP)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

A hospital needs a wireless solution which will provide guest access for patients and visitors, as well as for medical staff. In addition to laptops and tablets, staff have wireless voice communicator devices. Some medical equipment also connects wirelessly.
How can the network architect help to ensure that patient and visitor internet use does not interfere with more vital hospital applications?

- A. Deploy IntroSpect to monitor patient and visitor traffic.
- B. Plan a bandwidth contract for the guest role in the MC firewall.
- C. Deploy dedicated Air Monitors (AMs) at about one-fourth the density of APs.
- D. Ensure that the guest SSID has a password associated with it.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Refer to the exhibit.



A mall has an existing Aruba solution with 15 AP-335s. The mall now wants to add Meridian and location-based services, in particular blue dot wayfinding. The customer plans to use the built-in beacon in the existing AP radios. These Meridian licenses have been proposed:

- 1x Aruba Meridian Maps
- 1x Aruba Meridian Blue Dot Nav

Which concern should the architect raise about this plan?

- A. Separate beacons should be deployed to provide proper coverage for wayfinding.
- B. Only the Blue Dot Nav license is required to meet the customer requirements.

- C. The customer requires wireless sensors to manage the beacons in the AP radios.
- D. The existing AP radios do not support beacon functionality.

Correct Answer: A

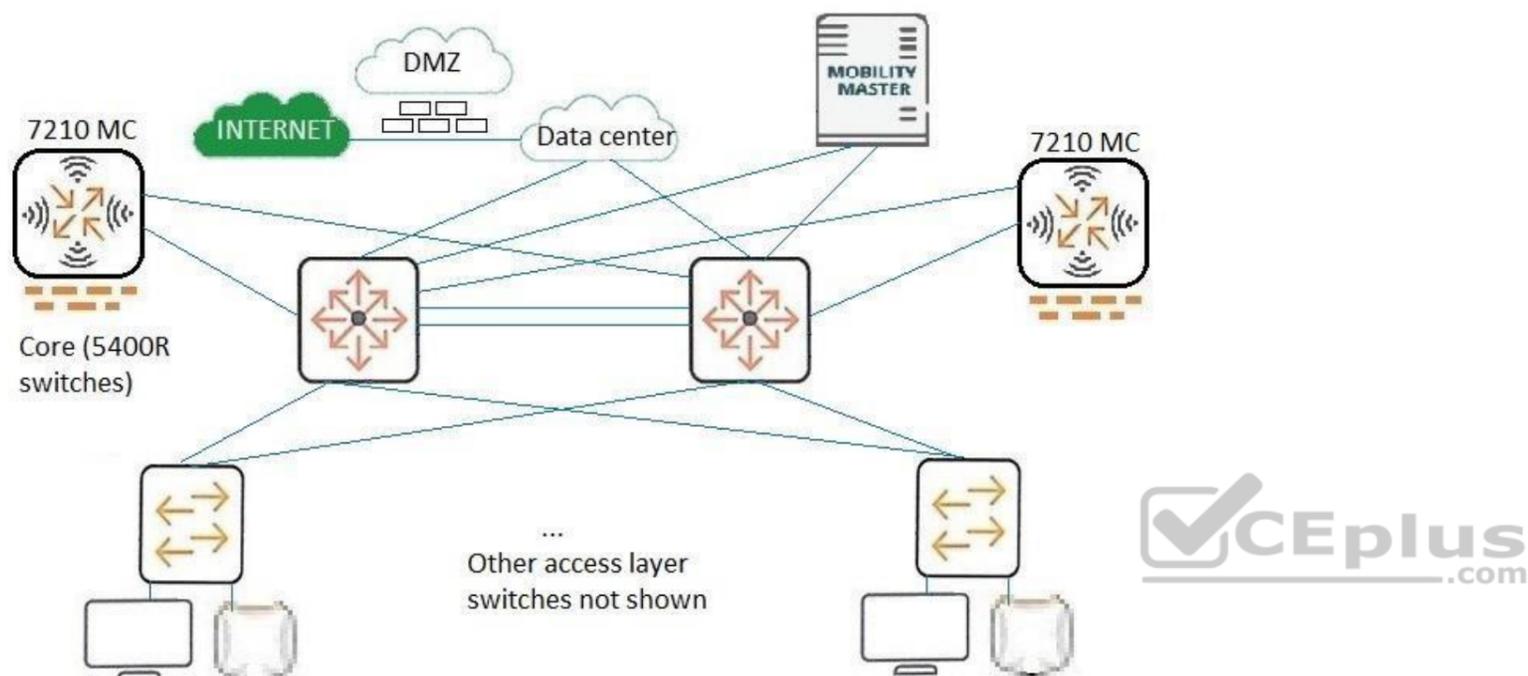
Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Refer to the exhibit.



A customer needs a network upgrade. The customer has these availability requirements for wireless access:

- One MC and one core switch can fail with immediate, stateful failover for client connections. ▪
- Network upgrades can occur without the requirement of a maintenance window.

The exhibit shows the architecture plan.

Which technologies should the architect recommend?

- A. Clustering on MCs and VRRP on Core switches
- B. VRRP on MCs and VSF on Core switches
- C. VRRP on both MCs and Core switches
- D. Clustering on MCs and VSF on Core switches

Correct Answer: A

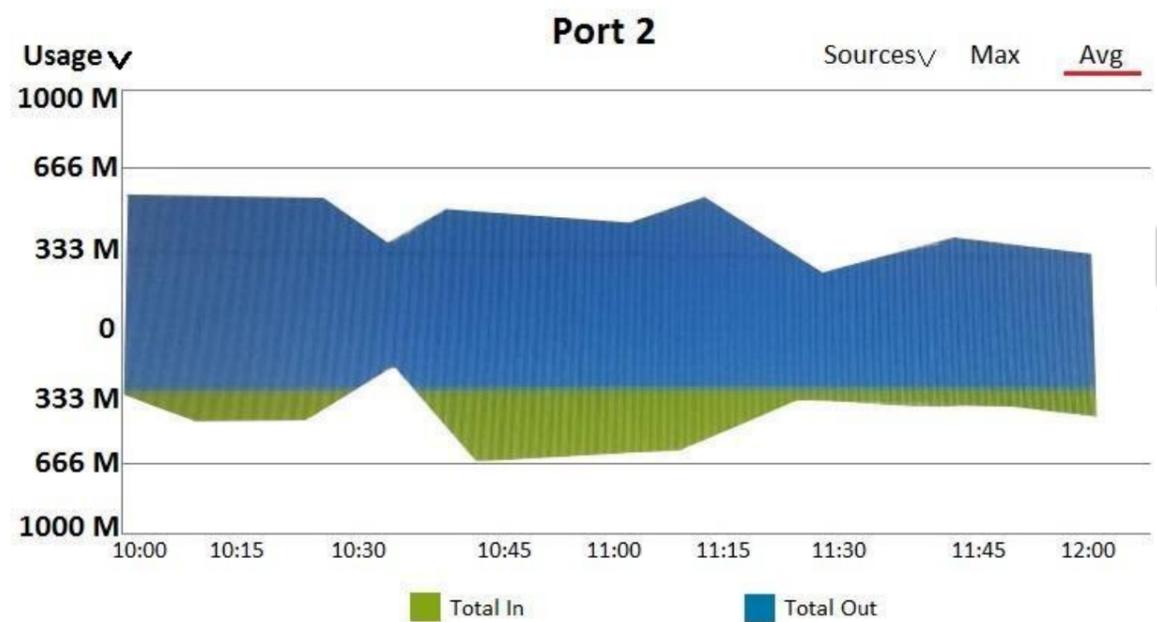
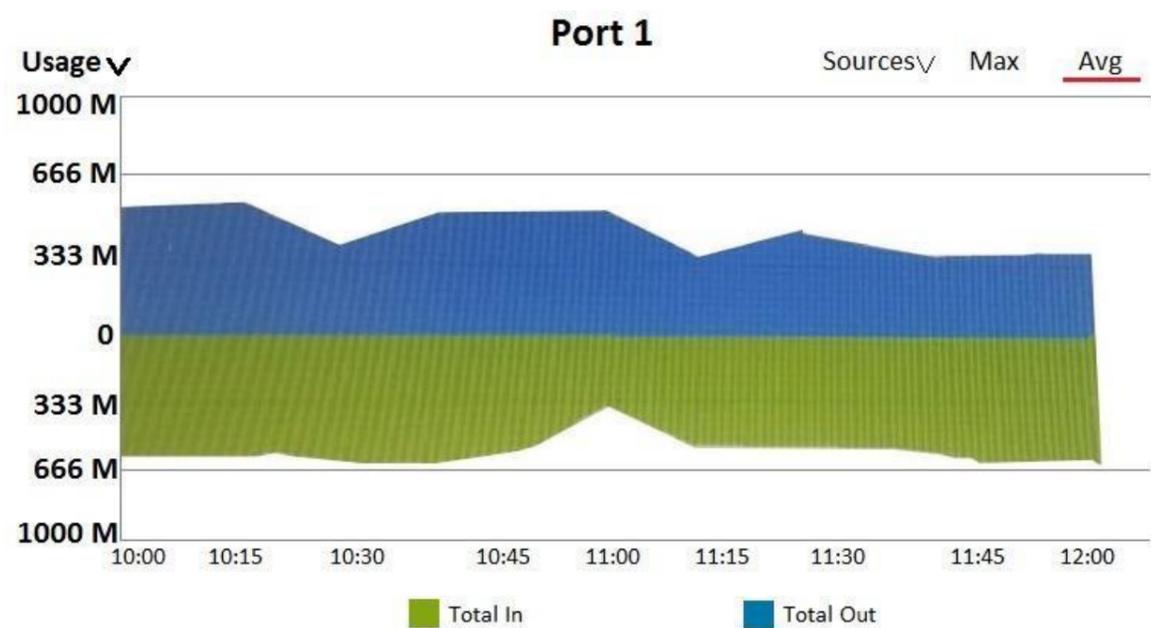
Section: (none)

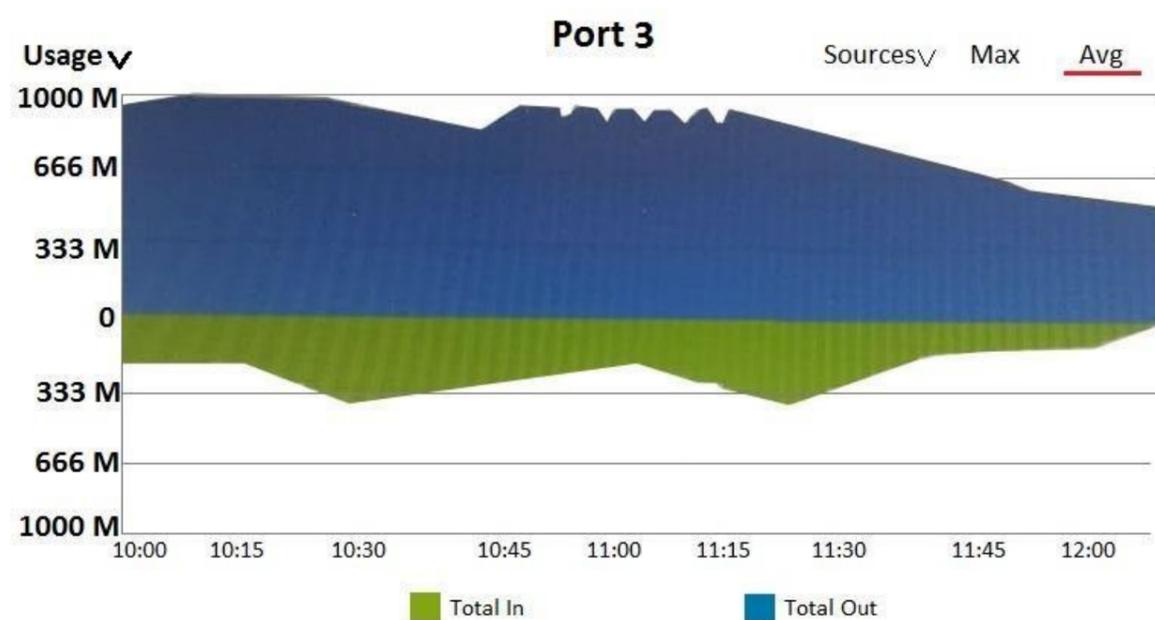
Explanation

Explanation/Reference:

QUESTION 17

Refer to the exhibit.





A customer needs a wired network upgrade and has complained about performance issues. The architect has collected information about traffic flow on several switch ports in different locations across the network, and the results are shown in the exhibit. Each of these ports is a 1Gbps port. What can the architect conclude?

- A. None of these ports show any periods of congestion.
- B. Port 1 shows periods of congestion, other ports are not congested.
- C. Port 3 shows periods of congestion, other ports are not congested.
- D. All of the ports show serious congestion.



Correct Answer: D

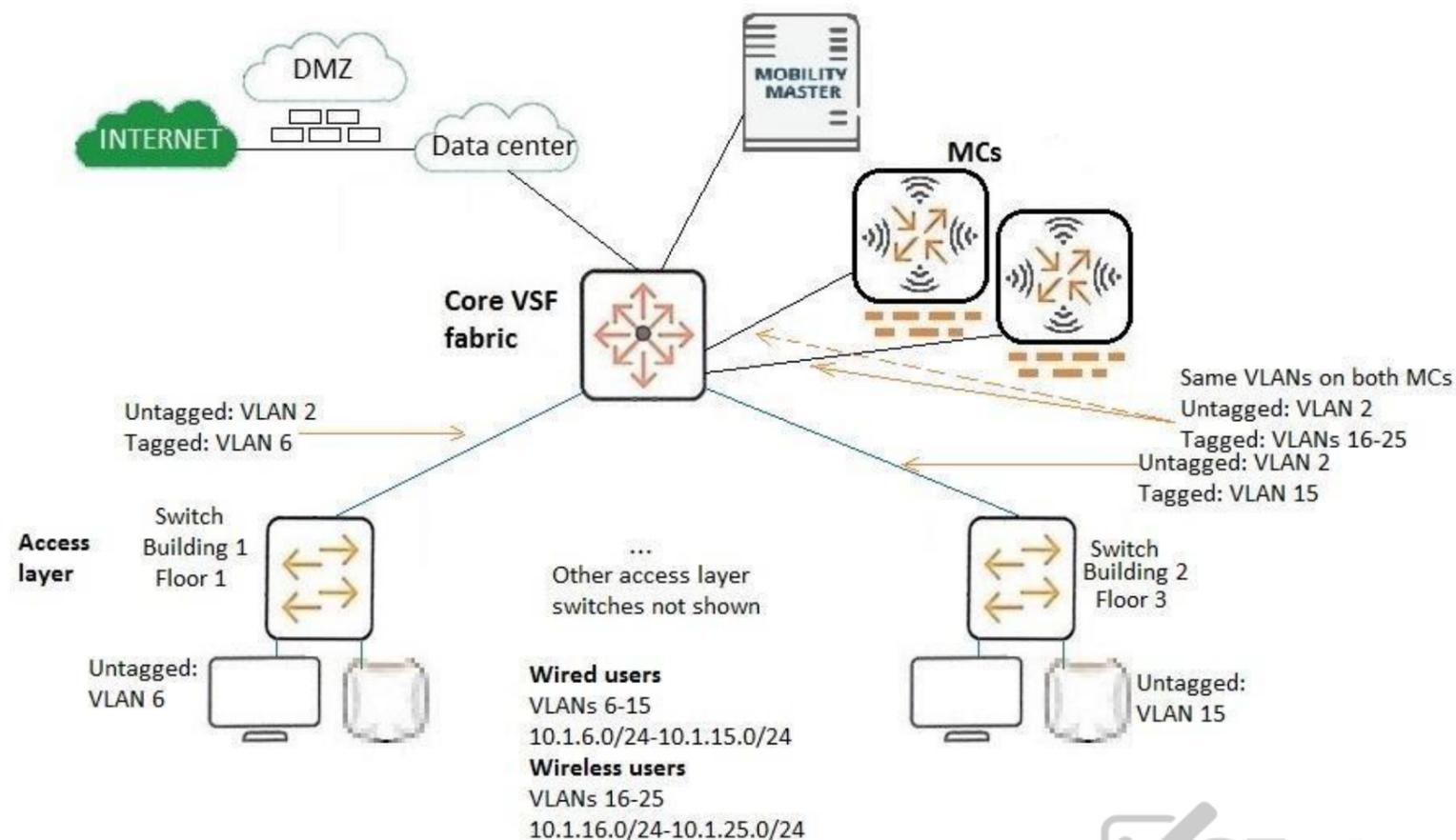
Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Refer to the exhibit.



A customer needs a wireless network upgrade and has these requirements:

- Support any applications used on a wired connection
- Support up to 2500 wireless clients
- Support seamless roaming from floor to floor and building to building
- Continue to function seamlessly if one AP or controller fails

The architect has designed the local infrastructure for the network as shown in the exhibit. Which change should the architect make to better meet customer requirements and best practices?

- Combine the /24 subnets for wireless and wired users into a /16 subnet.
- Place each controller in a different VLAN and subnet.
- Change the /24 subnets for wireless users into a /25 subnet.
- Combine the /24 subnets for wireless users into a /20 subnet.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

An architect has recommended the deployment of RAPs at user home offices to provide access to the corporate LAN. How should the architect plan the SSID for the RAPs?

- Same SSID and security settings as the corporate SSID
- 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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

A customer has critical wired endpoints and wants to minimize the chances they will lose their connection to the network. These endpoints are dual-homed, each with two Ethernet connections that are in a link aggregation. The architect plans to deploy two 5406R switches in the closet. What else should the architect specify in the plan?

- A. The 5406R switches are in a VSF fabric; each switch has redundant power supplies, but not redundant management modules.
- B. The 5406R switches are not in a VSF fabric; each switch has redundant power supplies but not redundant management modules.
- C. The 5406R switches are not in a VSF fabric; each switch has redundant power supplies and redundant management modules.
- D. The 5406R switches are in a VSF fabric; each switch has redundant power supplies and redundant management modules.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A retailer currently has two redundant ClearPass C2000 DL360 Gen9 hardware appliances and two perpetual 1K Access licenses. The customer uses ClearPass to authenticate employee wireless devices and other corporate wireless devices. ClearPass logs indicate that peak license usage is currently 1900. The customer now wants to add a guest access solution. Guests will connect to an open SSID and redirected to a portal which they can use to self-register and log in. The customer anticipates that up to 1550 guest devices will connect at the same time. The customer requires the most cost-effective solution that will meet the requirements. What should the network architect recommend for this solution?

- A. Two 1K Guest licenses
- B. 1K+500 Access licenses; Two 1K Onboard licenses
- C. 1K+500 Access licenses
- D. 1K+500 Access licenses; 1K+500 Guest licenses

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

A university has a dormitory with several floors. Currently, APs are deployed in the hallways about every 50 feet (15 m). The university has several issues with the existing network:

- Students complain that the wireless network is very slow, and IT staff have observed a low signal in the student rooms.
- Students want to connect some equipment, such as gaming consoles and IP TVs, on Ethernet, but the dorm rooms just have one Ethernet port.

What could the architect plan to resolve all of these pain points?

- A. Deploy an AP 335 inside each dorm room.
- B. Keep the existing APs, but add more in the hallways to increase signal strength.
- C. Replace the existing APs with AP 345s and add more Ethernet ports to each room.
- D. Deploy an AP 303H inside each dorm room.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Refer to the exhibit.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	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

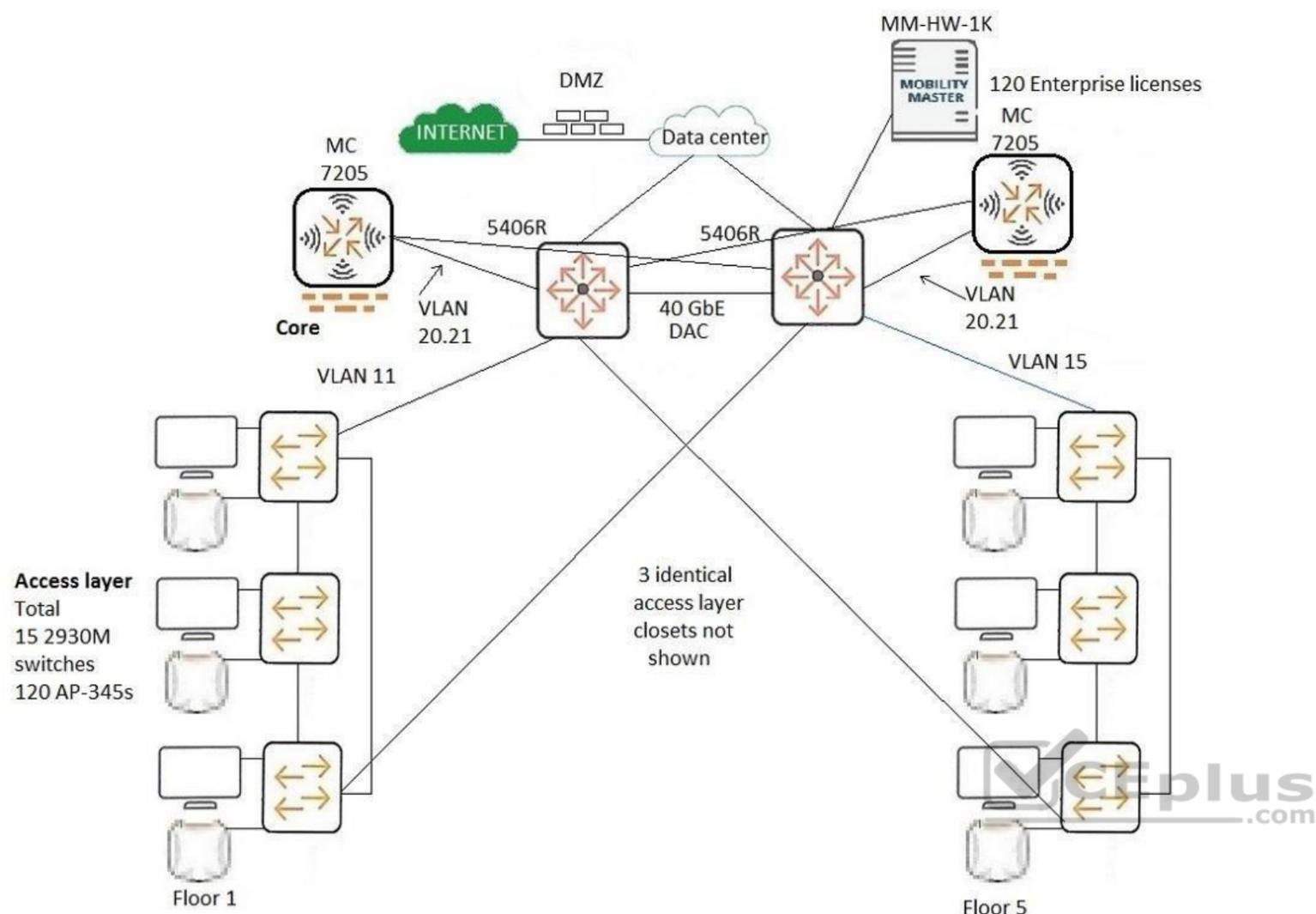
Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Refer to the exhibit.



A customer has these availability requirements:

- loss of one controller with stateful failover and without impact on wireless client connectivity ▪
- loss of one core switch without loss of connectivity for any endpoints or APs in the building
- loss of any one switch-to-switch or MC-to-switch link without loss of connectivity for any endpoints or APs in the building and with minimal impact on infrastructure functionality ▪
- loss of any one access switch with minimal impact to wireless client connectivity

The exhibit shows the current plan for the topology.

Which change should the architect make to the plan to provide better support for the customer availability requirements?

- Use two 40GbE DACs for the VSF link between the core switches.
- Add VLANs 11 and 15 to the MC connections to ensure both MCs can manage any of the APs.
- Add 120 additional AP licenses, so that each MC can support all the APs even if the other MC fails.
- Change the 40GbE DAC on the 5406R switch to a stacking cable with stacking module.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

A company currently has 45 IAP-315 at a remote site. These IAPs connect to the main office on a WAN link and use an IPsec VPN to an MC. The company has determined that it needs better optimization and higher VPN throughput for traffic sent to the main office.

What should the network architect propose to fill this gap?

- A. a subscription to Aruba Central services for WAN optimization
- B. the deployment of several additional IAP-315 to boost throughput
- C. the deployment of a local MC at the remote site
- D. the purchase of SD-WAN licenses for the remote site IAPs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

In which scenario do Aruba 5400R Series switches, but not Aruba 2930M Series switches, meet the needs for a wired upgrade?

- A. The customer has recently deployed Aruba AP-345 APs and is concerned about a future-proof wired edge that will continue to support expanding bandwidth requirements.
- B. The customer requires each access layer switch to support at least 40Gbps on its fiber uplinks at all times, including if up to one uplink fails.
- C. 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.
- D. 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.

Correct Answer: B

Section: (none)

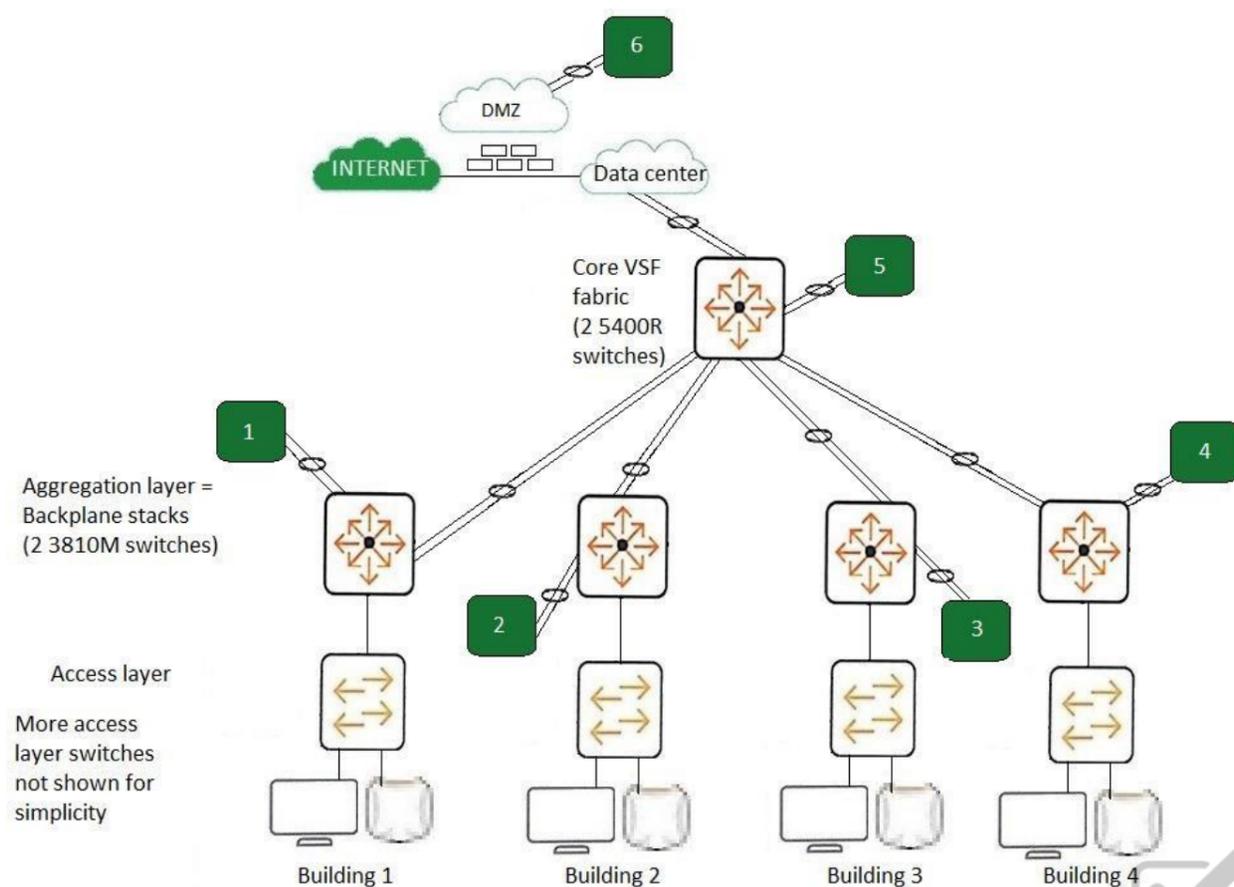
Explanation

Explanation/Reference:



QUESTION 27

Refer to the exhibit.



A company needs a new wireless solution for its large campus with multiple buildings. The campus has 8,000 users, and the company also has 1000 users who use VIA concurrently. The customer requires full redundancy for the Mobility Controllers (MC), including seamless roaming and stateful failover for the main site. Buildings are close enough together for users to roam between them. The exhibit shows the existing wired network. The architect plans to propose:

- 500 APs (100 each in Building 1 and 2, 200 each in Buildings 3 and 4).
- two 7030 MCs
- two 7220 MCs
- one MM appliance

The exhibit shows the existing wired network at the main site. Where should the architect plan to connect the MCs? (Potential locations are numbered in the exhibit.)

- A. two 7030 MCs at 6; two 7220 MCs at 5
- B. one 7030 MC at 1 and one at 2; one 7220MC at 3 and one at 4
- C. two 7030 MCs at 5; one 7220 MC at 3 and one at 4
- D. all of the MCs at 6

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 28

A hospital needs an upgrade to 802.11ac for its wireless network, which needs to provide complete coverage. The hospital has a concrete exterior and uses drywalls for all of the interior walls with a few exceptions as mandated for safety. The building has 10 foot (3m) ceilings. The legacy APs were deployed in the hallway, but the customer is open to deploying APs in any room such as reception areas, patient rooms, operating rooms, treatment rooms, and lounges.

The wireless network must support wireless medical devices, voice communicators for medical staff, laptops in nurse stations, medical staff tablets, and visitor and patient personal devices. All of these devices support both the 2.4GHz and 5GHz band.

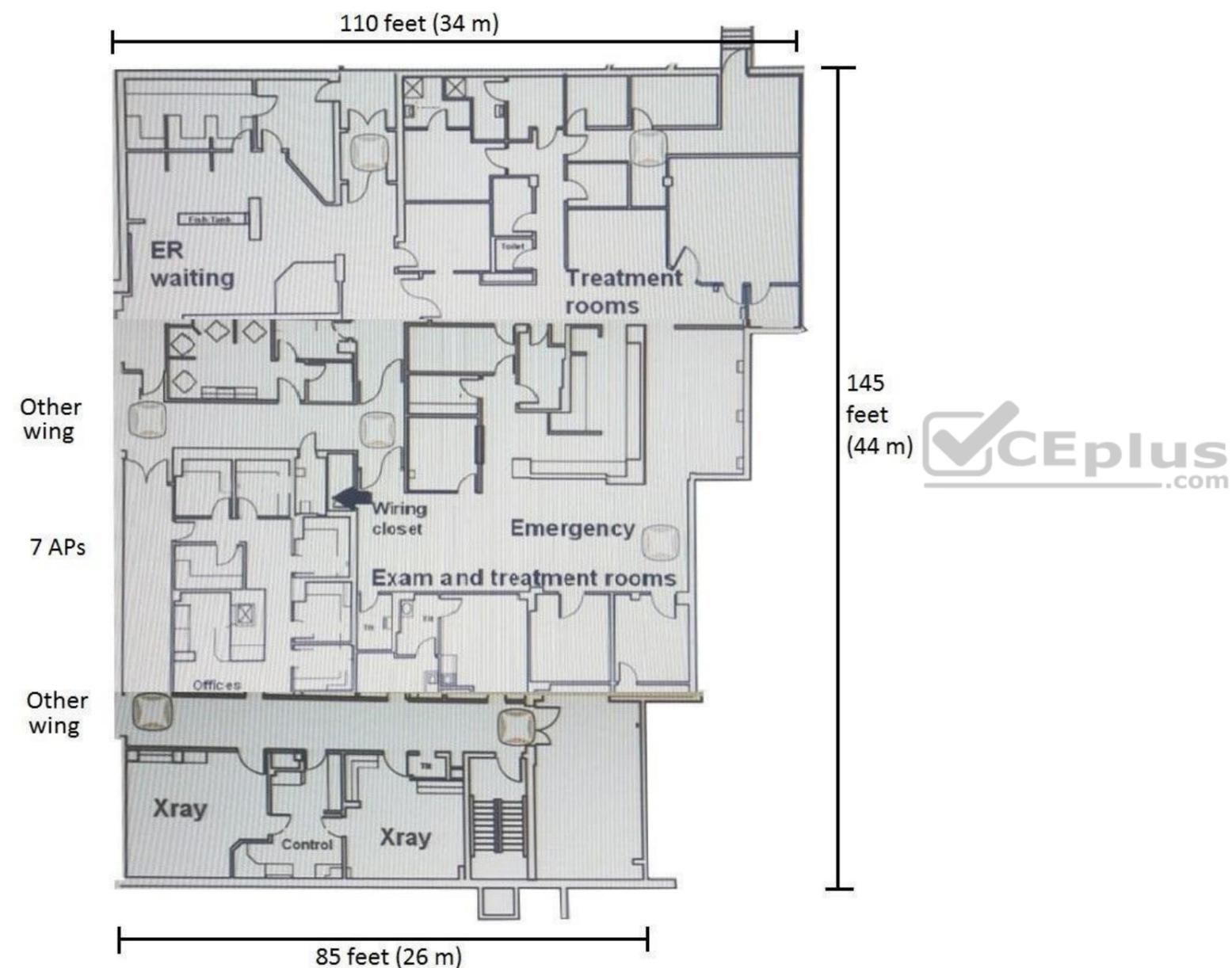
The exhibits below show one wing of one floor of the hospital. This wing is about 14,000 square feet (1300 sq. m). This area has up to:

- 40 concurrent patients and visitors, who might have up to two devices
- 40 concurrent staff members, who might have up to three devices ▪

About 100 medical and other types of wireless devices

Several of these wireless medical devices are in the X-ray and X-ray control rooms. The architect has already planned to place APs in stairwells on another floor.

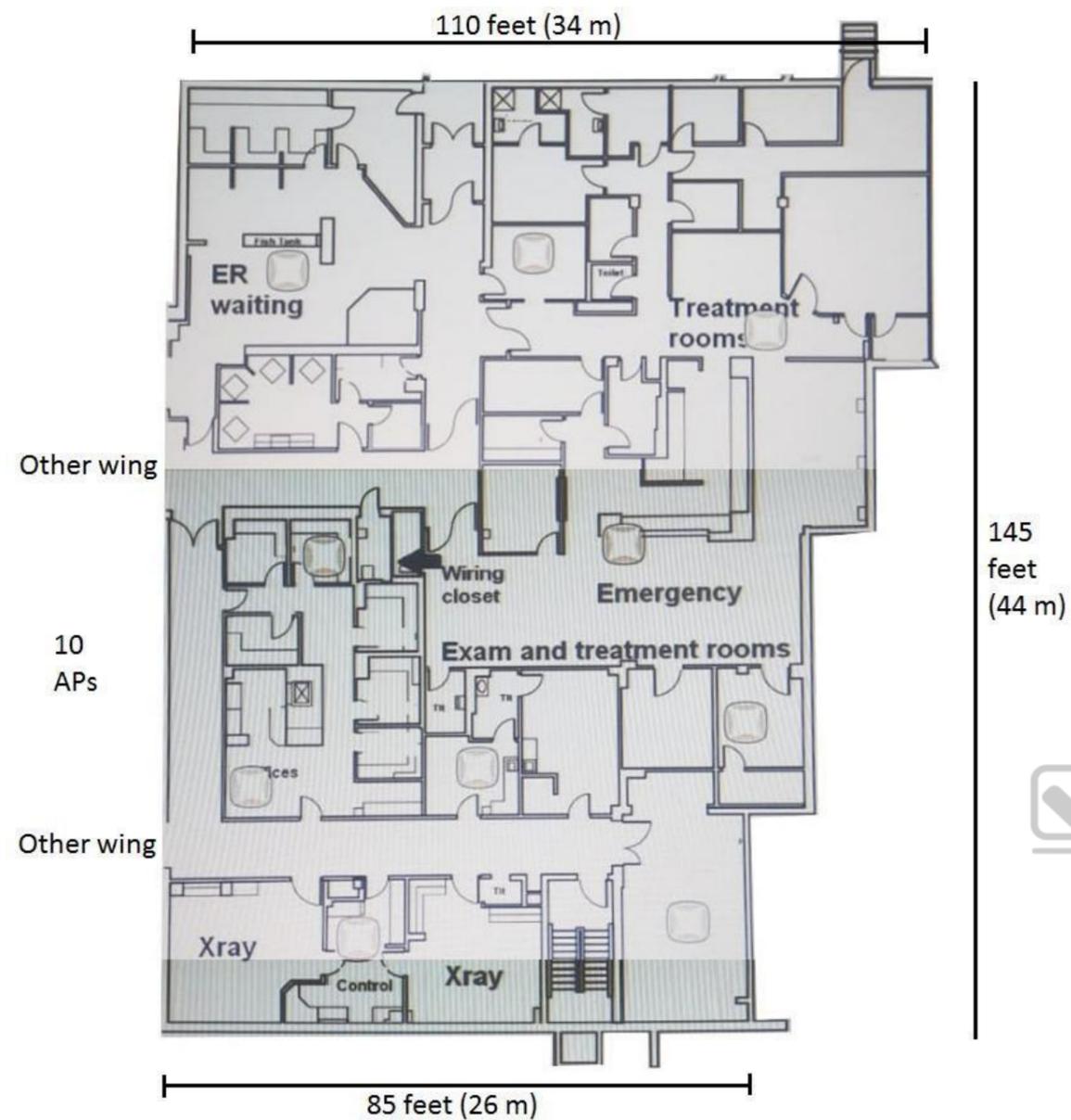
Which AP plan for this wing of this floor meets the customer needs? A.



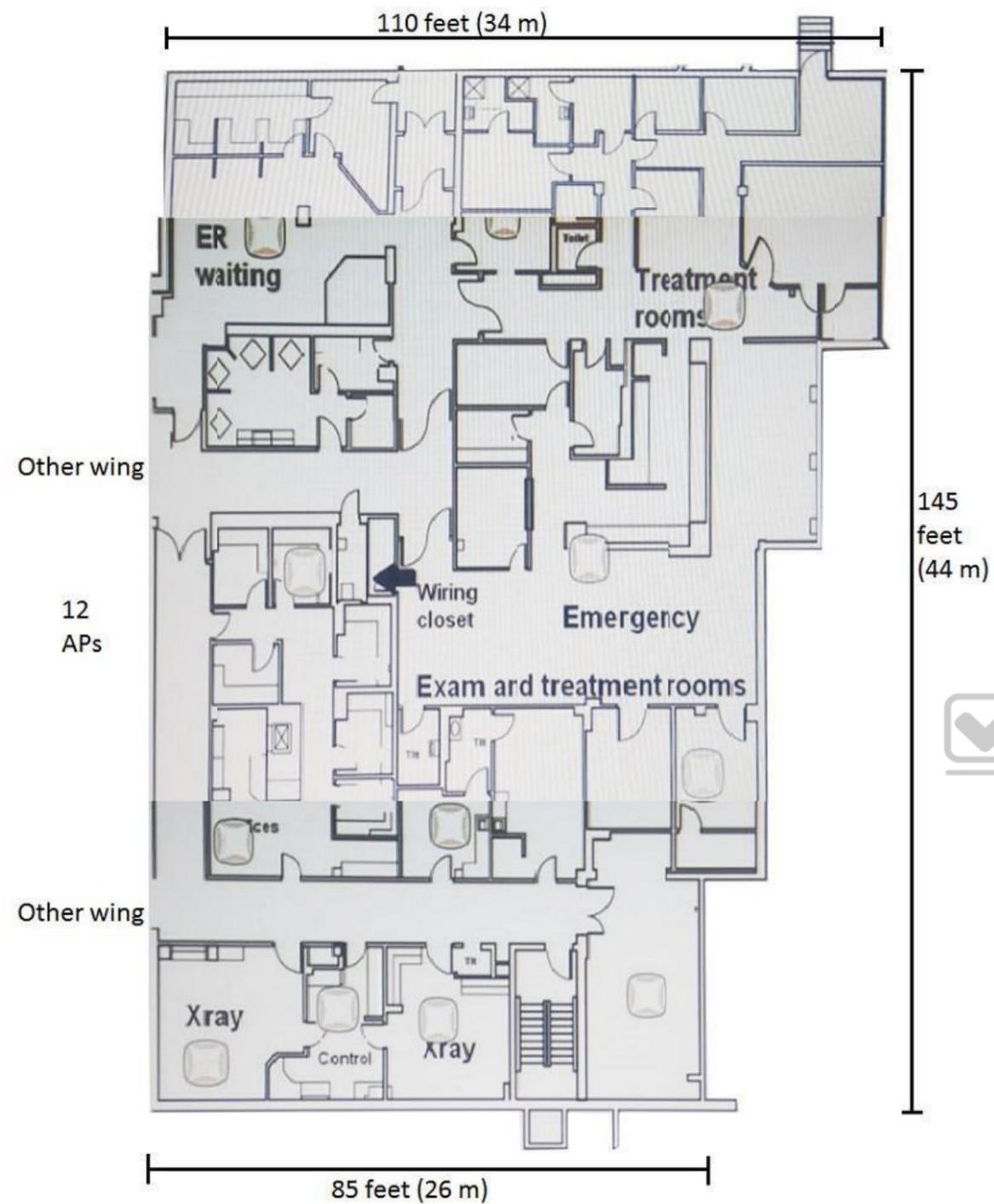
B.



C.



D.



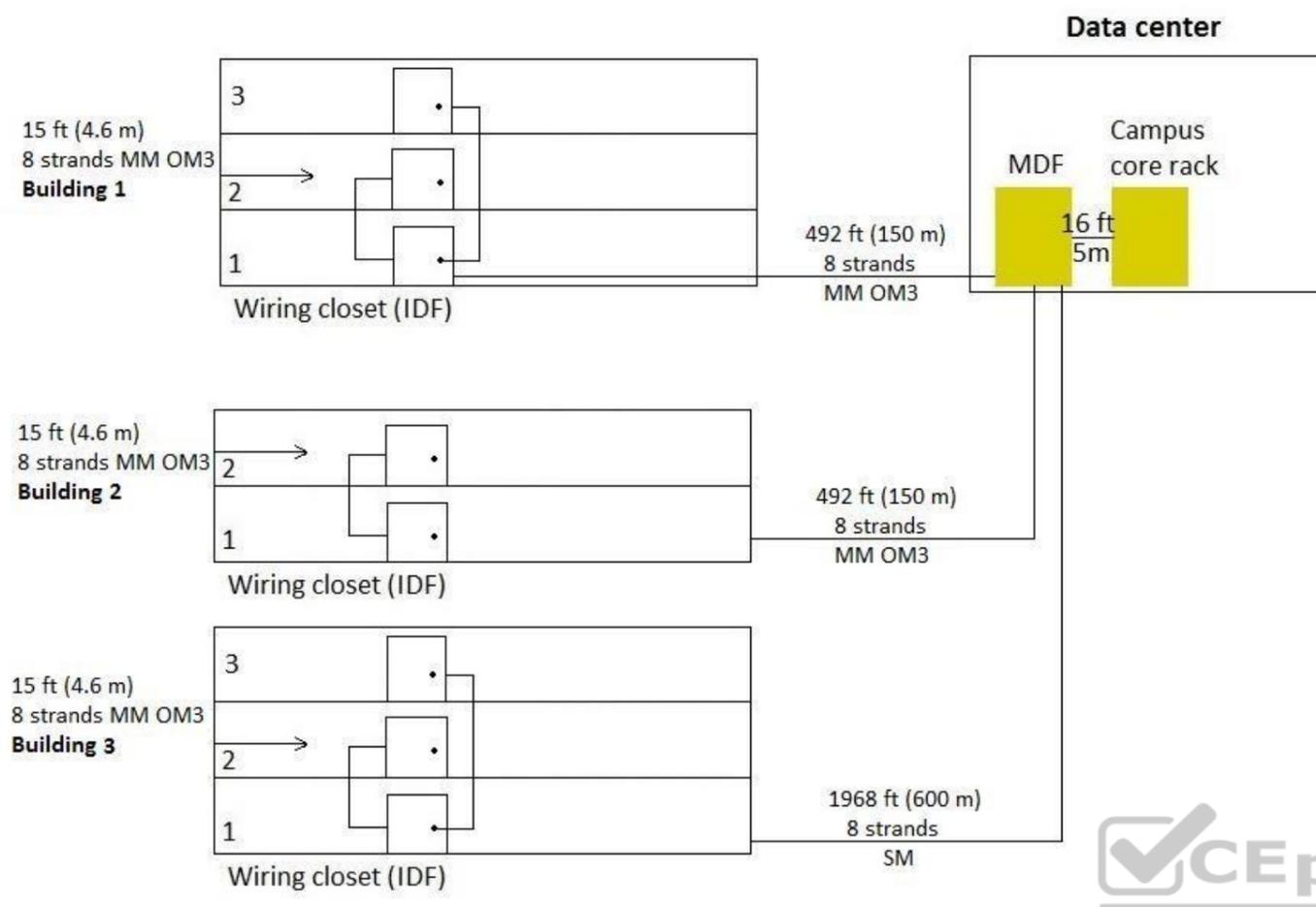
Correct Answer: D
 Section: (none)
 Explanation

Explanation/Reference:

QUESTION 29

E.
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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

A customer has Aruba network infrastructure devices that could be managed by either Aruba Central or Aruba AirWave.

Which customer characteristic should point the architect toward an AirWave recommendation as opposed to a Central recommendation?

- A. desire to lease managed services on an ongoing basis
- B. small IT staff and preference for cloud solutions
- C. policies that network management occurs on premises

D. need to support Zero Touch Provisioning (ZTP)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

Refer to the exhibit.



The customer requires a solution for the writing closet shown in the exhibit. The closet serves the entire floor, which is wired for CAT5e cable. The closet has four CAT5e cables to the data center 110 feet (34 m) away.

The switch or switches in this closet will need to support 100 wired endpoints and 16 AP-345s. The switch or switches must connect to the network core, Aruba 5406R switches, in the data center on uplinks that provide at least 20 Gbps bandwidth total.

What is one benefit of an Aruba solution for meeting these requirements?

- A. AOS-Switches can meet the uplink bandwidth needs with an extensive array of choices for transceivers.
- B. Aruba PoE+ ports can provide more than 30W of power even to APs at the fat end of the floor.
- C. Aruba Smart Rate ports enable switches to achieve the required uplink speeds without expensive re-cabling.
- D. Aruba conditioning mode cables enable 10GbE SFP+ of 40GbE QSFP+ connections on copper cabling.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

Refer to the exhibit.



Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JW736A	Aruba 7205(US) 2-port 10GBASE-X (SFP+) Controller	Hewlett Packard Enter...	\$12,995.00	2	\$25,990.00	USA Price List (USD)
1.01	H3CW3E	Aruba 1Y FC NBD Exch 7205 Controller SVC [for JW736A]	Hewlett Packard Enter...	\$12,002.00	2	\$14,004.00	USA Price List (USD)
1.02	JW091A	SFP-10GB-SR 10GBASE-SR SFP+ 850nm Pluggable LC Conn.	Hewlett Packard Enter...	\$1,245.00	4	\$4,980.00	USA Price List (USD)
2.00	J323A	Aruba 2930 40GB Smart Rate PoE+ 1 slot Switch	Hewlett Packard Enter...	\$9,359.00	24	\$224,616.00	USA Price List (USD)
2.01	HT6U1E	HPE 3Y FC 4H Exch Aruba2930MSRPOE SVC [for JL323A]	Hewlett Packard Enter...	\$2,911.00	24	\$69,864.00	USA Price List (USD)
2.02	JL086A	Aruba X372 54VDC 680W Power Supply	Hewlett Packard Enter...	\$639.00	24	\$15,336.00	USA Price List (USD)
2.03	JL086A ABA	INCLUDED: Power Cord - U.S. localization	Hewlett Packard Enter...	Incl.	24		USA Price List (USD)
2.04	JL325A	Aruba 2930 2-port Stacking Module	Hewlett Packard Enter...	\$1,019.00	24	\$24,456.00	USA Price List (USD)
2.05	JL083A	Aruba 3810M/2930M 4SFP+ MACsec Module	Hewlett Packard Enter...	\$1,259.00	16	\$20,144.00	USA Price List (USD)
2.06	J9150D	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	16	\$16,640.00	USA Price List (USD)
3.00	J9821A	Aruba 5406R z12 Switch	Hewlett Packard Enter...	\$2,419.00	2	\$4,838.00	USA Price List (USD)
3.01	H1MT0E	HPE 3Y FC 24x7 Aruba 5406R z12 Switch SVC [for J9821A]	Hewlett Packard Enter...	\$4,094.00	2	\$8,188.00	USA Price List (USD)
3.02	U4832E	HPE Networks 54xx/82xx z1 Startup SVC [for J9821A]	Hewlett Packard Enter...	\$2,325.00	2	\$4,650.00	USA Price List (USD)
3.03	J9828A	Aruba 5400R 700W PoE+ z12 PSU	Hewlett Packard Enter...	\$799.00	2	\$1,598.00	USA Price List (USD)
3.04	J9828A ABA	INCLUDED: Power Cord - U.S. localization	Hewlett Packard Enter...	Incl.	2		USA Price List (USD)
3.05	J9993A	Aruba 8p 1G/10GbE SFP+ v3 z12 Mod	Hewlett Packard Enter...	\$14,799.00	4	\$19,196.00	USA Price List (USD)
3.06	J9150O	Aruba 10G SFP+ LC SR 300m MMF Transceiver	Hewlett Packard Enter...	\$1,040.00	20	\$20,800.00	USA Price List (USD)
3.07	J4858D	Aruba 1G SFP LC SX 500m MMF Transceiver	Hewlett Packard Enter...	\$325.00	4	\$1,300.00	USA Price List (USD)

3.08	J9996A	Aruba 2p 40GbE QSFP+ v3 zl2 Mod	Hewlett Packard Enter...	\$6,799.00	4	\$27,196.00	USA Price List (USD)
3.09	JL308A	Aruba 40G QSFP+ LC BiD 150m MMF 2-strand Transceiver	Hewlett Packard Enter...	\$1,095.00	2	\$2,190.00	USA Price List (USD)
4.00	JH234A	HPE X242 40G QSFP+ to QSFP+ 1m DAC Cable	Hewlett Packard Enter...	\$419.00	2	\$838.00	USA Price List (USD)
5.00	JZ033A	Aruba AP-345 (US) Unified AP	Hewlett Packard Enter...	\$1,395.00	192	\$267,840.00	USA Price List (USD)
5.01	H9RQ5E	Aruba 1Y FC NBD Exch AP-345 SVC [for JZ033A]	Hewlett Packard Enter...	\$61.00	192	\$11,712.00	USA Price List (USD)
6.00	JY791A	Aruba MM-HW-1K Mobility Master 1000 AP HW Appliance	Hewlett Packard Enter...	\$17,995.00	2	\$35,990.00	USA Price List (USD)
6.01	H6QE5E	Aruba 1Y FC NBD Exch MM-HW-1K Mob1000SVC [for JY7]	Hewlett Packard Enter...	\$2,770.00	2	\$5,540.00	USA Price List (USD)
6.02	JW124A	PC-AC-NA North America AC Power Cord	Hewlett Packard Enter...	\$5.00	4	\$20.00	USA Price List (USD)
6.03	JW471AAE	Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-...)	Hewlett Packard Enter...	\$300.00	192	\$57,600.00	USA Price List (USD)
6.04	H2XW3E	Aruba 1Y FC 24x7 License On Bundle SVC [for JW471AAE]	Hewlett Packard Enter...	\$46.00	192	\$8,832.00	USA Price List (USD)
6.05	JW088A	SFP-SX 1000BASE-SX SFP 850nm LC Connector Pluggable...	Hewlett Packard Enter...	\$395.00	4	\$1,580.00	USA Price List (USD)
7.00	J9734A	Aruba 2920/2930M 0.5m Stacking Cable	Hewlett Packard Enter...	\$149.00	15	\$2,235.00	USA Price List (USD)
		Quote Total				\$888,173	

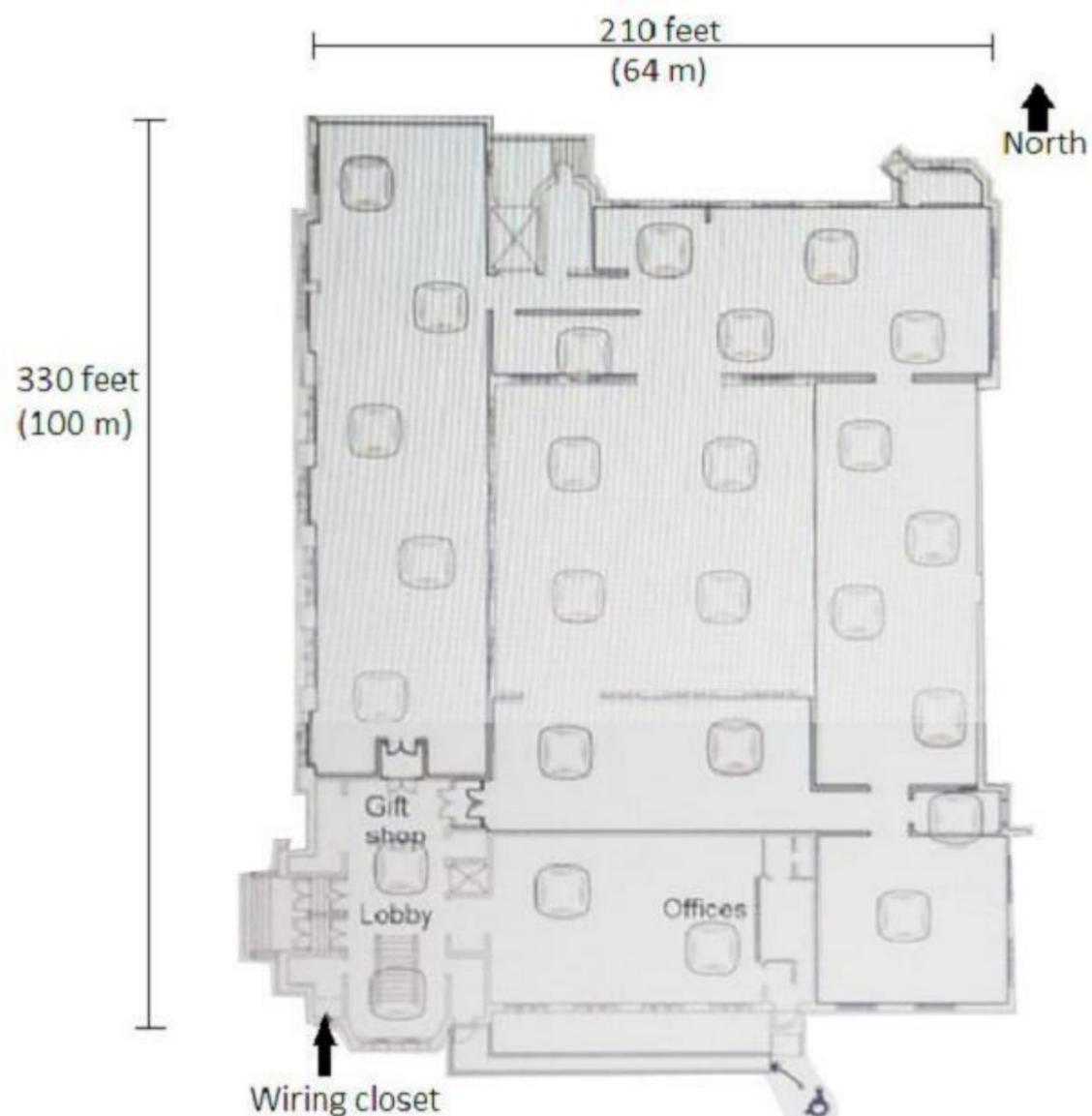


The network architect has created the BOM shown in the exhibit for a complete new wired and wireless solution for a customer. This solution will support 6000 wireless clients and 900 wired clients. The customer wants to discover and manage every component of the network in AirWave, including MMs, MCs, APs, and switches. How many AirWave licenses does the architect need to add?

- A. 30
- B. 222
- C. 6930
- D. 7122

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
QUESTION 33
 Refer to the exhibit.



A museum wants to add full 802.11ac wireless coverage across the building, which is about 210 feet (64 m) by 330 feet (100m). The museum has 15-foot (4,6 m) ceilings and stone interior walls. The network needs to support up to 600 wireless guest devices.

The exhibit also shows a preliminary plan for AP locations. The museum has eight Ethernet drops in the lobby and gift shop, but has otherwise not been wired. What is one recommendation that the architect should make to ensure a successful deployment?

- A. use of directional antennas to avoid lost signal
- B. addition of a writing closet closer to the north side
- C. use of at least CAT5 cable to connect to the APs
- D. addition of about 10 APs to achieve adequate density

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Compare the scenarios below. For which scenario do AP-365s meet the needs?

- A. The customer needs APs mounted to a concrete building exterior to provide coverage in a 90 foot (27m) radius from the building.
- B. The customer needs APs for an indoor high density environment in which the customer prefers dual 5GHz operation.
- C. The customer needs to mount APs in an outdoor area, but that area only has fiber cable available.
- D. The customer needs APs for an indoor stadium that requires overhead coverage and directional antennas.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

A customer has multiple, very small branch sites that require just one or two APs each. The office has a local Internet connection, but the traffic is destined to the corporate data center, which has an Aruba wireless solution. Which branch office solution best meets the customer needs?

- A. RAPs and 7005 branch office controllers with an SD-WAN license
- B. RAPs and no branch office controllers
- C. CAPs and 7005 branch office controllers
- D. IAPs and 7005 branch office controllers with an SD-WAN license

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

A university has a dormitory with several floors. Currently APs are deployed in the hallways about every 50 feet (15m). The university has several issues with the existing network:

- Students complain that the network is very slow, and the wireless signal is poor.
- Students want to connect some equipment such as gaming consoles and IP TVs on Ethernet, but the dorm rooms just have one Ethernet port. How does the deployment of AP303Hs resolve the customer issues?

- A. They are specialized to provide wireless coverage for single-room deployment and also provide wired ports for clients.
- B. They are specialized for wireless meshing, which conserves Ethernet ports, and for high-speed wireless services.
- C. They have high-gain antennas designed for older buildings and support Smart Rate for high bandwidth on one port.
- D. They have directional antennas that will improve the wireless signal and require just one Ethernet port.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

A network architect plans to propose a virtual Mobility Master (VMM) for a new solution. The solution will support up to 4,800 wireless client devices and include:

- two Virtual Mobility Controllers (VMCs) in a cluster
- 180 APs

Which licenses should the architect propose?

- A. 1 MM-VA-500; 2 MC-VA-250; 540 Enterprise licenses
- B. 1 MM-VA-500; 1 MC-VA-250; 180 Enterprise licenses
- C. 1 MM-VA-1K; 2 MC-VA-250; one Enterprise license
- D. 1 MM-VA-1K; 1 MC-VA-250; 180 Enterprise licenses

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

A school district has instant APs (IAPs) at multiple locations. The school district wants a simpler way to manage the IAPs from a single location. However, it does not have the IT staff to handle the installation and management of a management solution on site.

What should the architect recommend?

- A. Purchase a subscription for Aruba Central device management.
- B. Deploy Aruba AirWave in central location.
- C. Purchase licenses for a Virtual Mobility Controller (VMC).
- D. Deploy an Aruba MC in a central location, and convert IAPs to CAPs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

A customer has an existing Aruba wireless solution to provide wireless access for employees. The solution includes APs, mobility controllers (MCs) at the network core, and a Mobility Master (MM). A customer would like to set up a separately managed guest network and have the traffic go directly to the DMZ.

What should the architect suggest as the simplest solution that meets the requirements?

- A. Add APs in a dedicated AP group to support only the guest network SSID.
- B. Have a dedicated mobility controller in the DMZ managed by the same MM.
- C. Double the number of APs and controllers
- D. Use MultiZone, and put a mobility controller in the DMZ.



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

What is one reason that an architect might choose to use pico-cell coverage rather than overhead in a stadium?

- A. to avoid major rewiring and construction concerns

- B. to save money by using less powerful and less expensive APs in the deployment
- C. to support a higher device density with a higher level of channel reuse
- D. to maximize coverage per-AP through the use of calculated directional antennas

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JZ092AAE	Aruba Meridian Blue Dot Nav 1yr E-STU	Hewlett Packard Enter..	\$6,000.00	2	\$12,000.00	USA Price List (USD)
1.01	JZ095AAE	Aruba Meridian Campaigns 1yr E-STU	Hewlett Packard Enter...	\$18,000.00	1	\$18,000.00	USA Price List (USD)
Quote Total						\$30,000.00	

A stadium wants to deploy location-based services, including blue-dot wayfinding over a 200,000 square foot (18,580 sq. m) area. The customer also wants to enable targeted notifications when guests walk past particular areas. The customer has selected a 1 year subscription. The exhibit shows the BOM that the architect created in Iris. Which correction should the architect make?

- A. Add another campaign subscription
- B. Add two Maps subscriptions
- C. Remove one Blue Dot Nav subscription
- D. Change the campaign subscription to a Maps subscription



Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

A customer has a campus that has expanded to several buildings. The buildings are between 100 and 200 feet (30 m and 61 m) apart and connected with SM fiber. The customer currently has instant APs (IAPs) clusters on several floors of several buildings. The customer has consolidated central resources in a small data center in one of the buildings. The customer would like a more centralized architecture in which all wireless traffic is tunneled to the data center and IAPs are managed centrally. What should the architect recommend?

- A. Deploy Aruba MCs in a central location, and convert IAPs to CAPs.
- B. Purchase a license for a Virtual Mobility Master (VMM).
- C. Deploy Aruba AirWave in a central location.
- D. Purchase a subscription for Aruba Central device management.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

In which of these scenarios do the customer requirements point towards tunneled node, or dynamic segmentation, on AOS-Switches?

- A. A customer has wired IoT devices and wants to be able to control their access. The architect recommends sending all of their traffic through the MC role-based firewall.

- B. A customer wants to manage their AOS-Switches in a more centralized manner. They would like to connect AOS-Switches to AirWave over secure IPsec tunnels and control all configuration from there.
- C. A customer has a branch office with an AOS-Switch and an Internet connection. The customer would like to give branch office users secure access to the corporate LAN over an IPsec tunnel.
- D. A customer lacks physical security and wants to impose 802.1X authentication on wired ports. After employees complete 802.1X authentication, they should receive full access to the network.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

A retailer wants to provide wireless services for guests across a section of store floor, which consists of 82 foot (25m) long aisles of cans and dry food goods. The shelves are six feet (1.8 m) high, and the ceiling height is 13 feet (4 m) high. The architect recommends overhead APs deployed at 40-50 foot (12 to 15 m) intervals every few aisles rather than in every aisle. What is one factor that justifies this recommendation?

- A. the low transmit power of most guest devices
- B. the low shelf height relative to ceiling height
- C. the aisle length
- D. the low ceiling height

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46 An indoor sports stadium has 5,000 seats in two rings:



- The stadium has a ceiling height of 72 feet (22 m).
 - There is a catwalk around the perimeter of the stadium that is 54 feet (13 m) from the floor.
 - There are two scoreboards at either end of the stadium. ▪
- The construction of the stadium is concrete and steel.

The customer has indicated a preference for overhead coverage, and the wireless network should support 3500 concurrent clients. The architect plans to install the APs on the catwalk to service sections of the floor below. Which type of antennas are recommended for the APs that provide the overhead coverage?

- A. high gain directional
- B. high gain omnidirectional
- C. downtilt
- D. Yagi

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

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 authentication meets the customer needs?

- A. Employee SSID = WPA2-802.1X, Guest SSID = WPA2-PSK, Wired edge ports = No authentication
- B. Employee SSID = WPA2-802.1X, Guest SSID = Captive portal, Wired edge ports = No authentication
- C. Employee SSID = WPA2-802.1X, Guest SSID = Captive portal, Wired edge ports = 802.1X + MAC-AuthD. Employee SSID = WPA2-PSK, Guest SSID = MAC-Auth, Wired edge ports = MAC-Auth

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 48

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.

What is a correct plan for firewall rules for the guest role? (The options describe the rules, but do not need to use correct command syntax.)

- A. deny all to corporateLAN, permit all HTTP, permit all HTTPS, deny all other traffic
- B. permit all HTTP, permit all HTTPS
- C. permit all DHCP, permit all DNS, permit all HTTP, permit all HTTPS
- D. permit all DHCP, permit all DNS, deny all to corporateLAN, permit all HTTP, permit all HTTPS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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 1-3C. 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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

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

Section: (none)

Explanation



Explanation/Reference:

QUESTION 52

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.

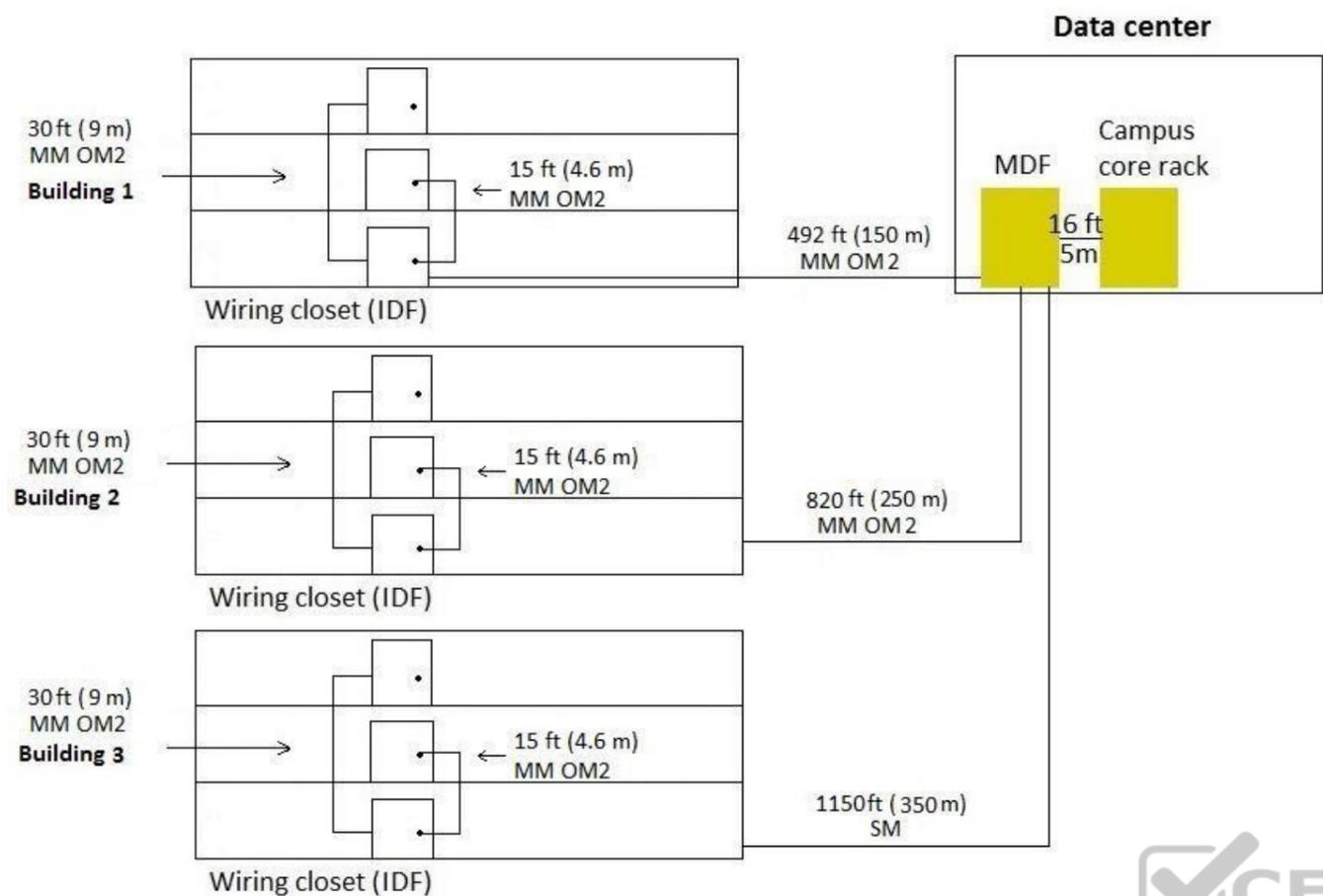
The existing access layer switches support these features:

- 10/100/1000 edge ports
- PoE (802.3af)
- 1GbE fiber uplinks

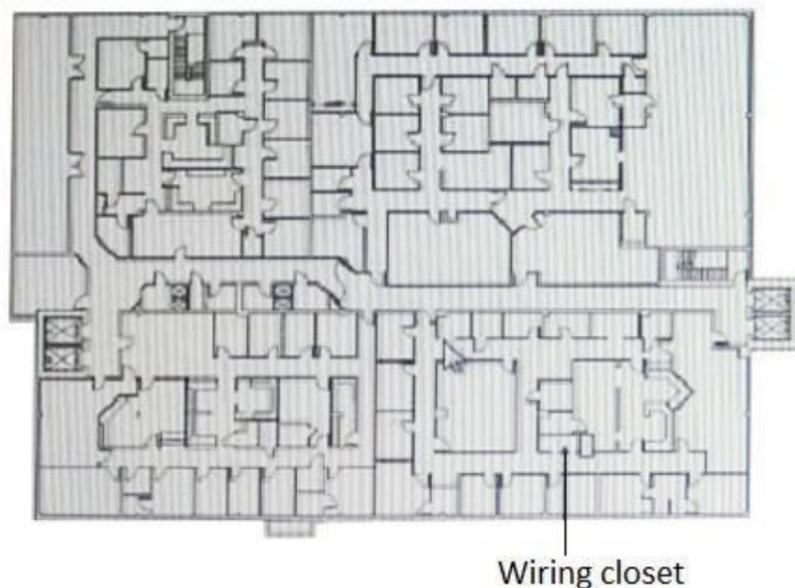
The existing aggregation switches support these features:

- 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.



What is one change to the existing network that the architect should recommend to meet the new customer requirements?

- A. upgrade to at least CAT7 cable for all the wired drops
- B. upgrade to MM OM3 fiber between the floors
- C. new aggregation layer switches to support larger ARP tables
- D. new access layer switches to support PoE+

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

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

T

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

The existing access layer switches support these features:

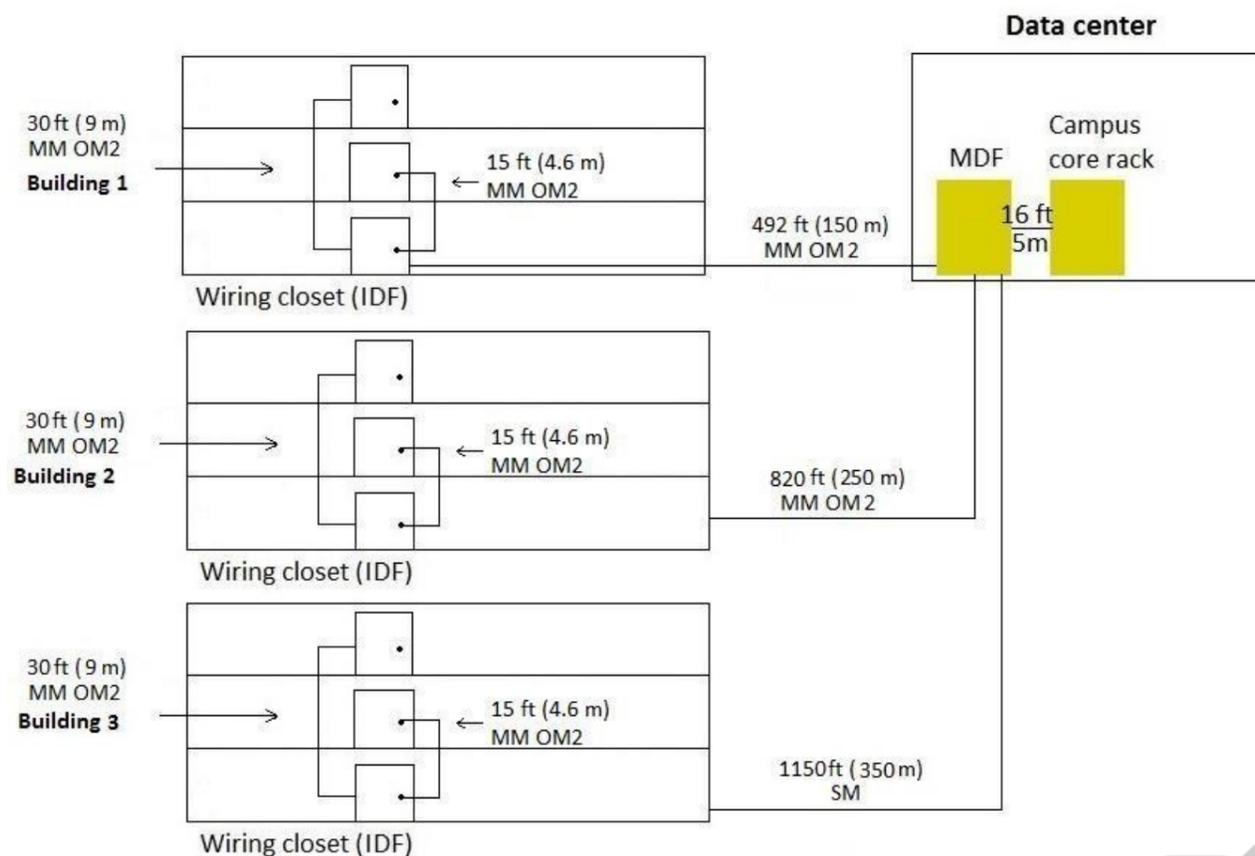
- 10/100/1000 edge ports
- PoE (802.3af)
- 1GbE fiber uplinks

The existing aggregation switches support these features:

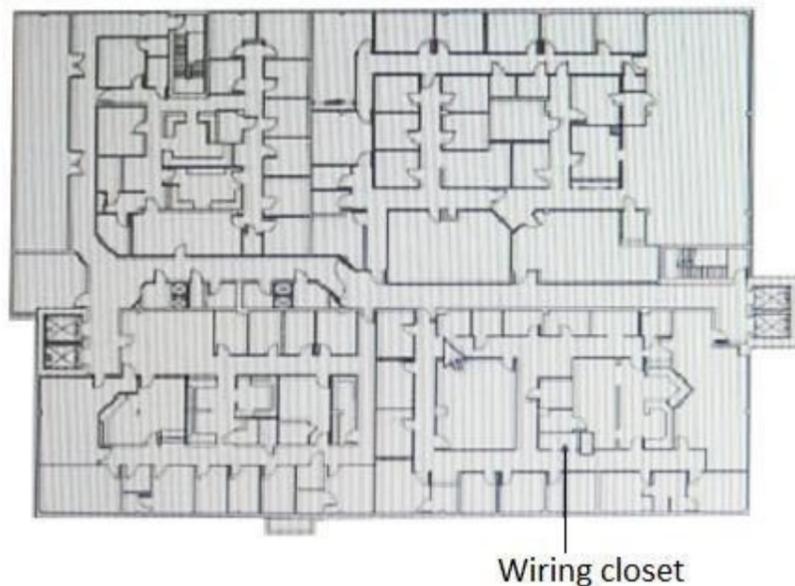
- 1/10GbE fiber ports
- ARP tables up to 62,000



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.



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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

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.

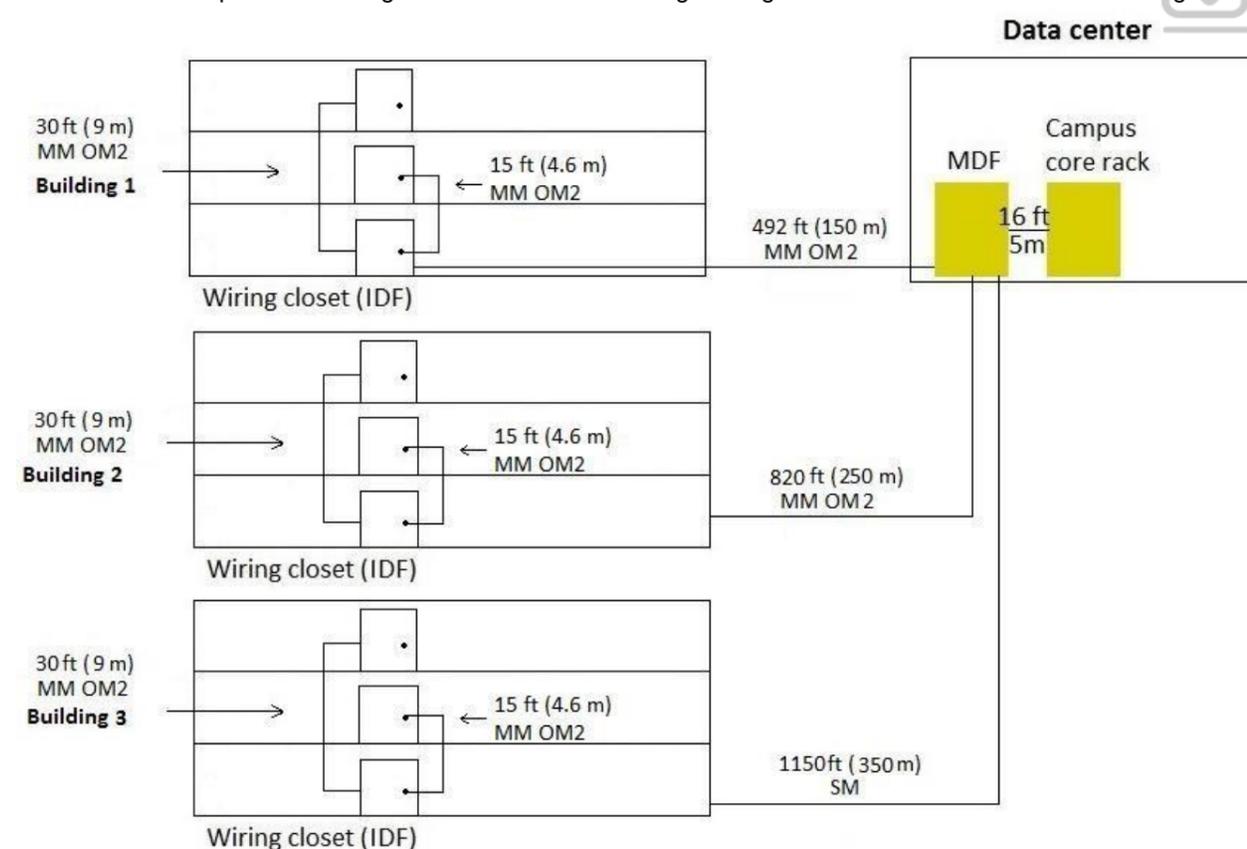
The existing access layer switches support these features:

- 10/100/1000 edge ports
- PoE (802.3af)
- 1GbE fiber uplinks

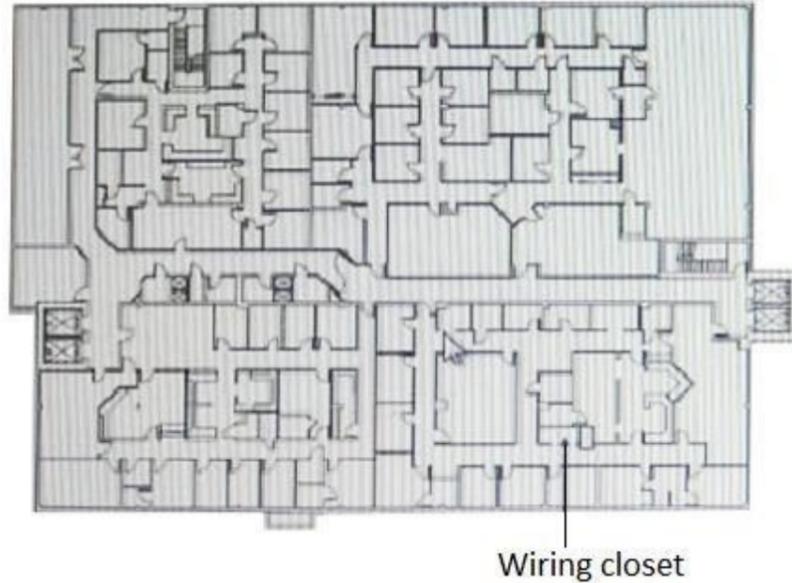
The existing aggregation switches support these features:

- 1/10GbE fiber ports
- ARP tables up to 64,000

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.



The customer wants to have a wired upgrade as well. The customer has indicated some additional requirements for the wired network, including redundancy for all switch-to-switch links. The customer also wants to explore whether the aggregation layer in buildings can be eliminated.

What is one missing piece of information the architect should obtain from the customer before they design the solution and select new switches and their accessories?

- A. the power requirements on the wireless security cameras
- B. the number of fiber strands for fiber runs
- C. the percentage of time that employees use their wired connection
- D. the power rating on the fiber deployed between buildings



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

What is one requirement for ensuring that MCs can update their software without the need for a maintenance window?

- A. MCs must be managed by an MM and connected to the same switch.
- B. MCs must be in a cluster and connected in the same VLANs.
- C. MCs must be directly connected on at least one port.
- D. MCs must have AP licenses assigned to them in a dedicated local pool.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56 A retailer has many small outlets. Each outlet has: a local Internet connection, but no local services. The outlets have no local IT staff. All traffic must go through the main office. Devices at the site are primarily POS systems.

The retailer currently has a complex VPN solution, but would like to:

- Shift entirely to wireless devices with a new 802.11ac network ▪
- Simplify network setup for existing and new outlets

The architect has examined the sites and determined that each will require about 1 to 3 APs. The customer wants the most cost-effective solution that meets the requirements. Which solution should the architect recommend for each remote site?

- A. Instant APs (IAPs) with CPSec control channels to Aruba Central
- B. Campus APs (CAPs) with CPSec control channels to a main office MC
- C. Remote APs (RAPs) with IPsec tunnels to a main office MC
- D. Campus APs (CAPs) with a local MC that has an SD-WAN license

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

A customer requires new MCs for a large multi-site network with about 600 AP-345s and 30,000 wireless clients. The customer requires redundancy for the MCs with each MC being able to handle the full load in a failover situation. The network should be able to sustain the loss of a controller with stateful failover within seconds. It should be able to undergo software upgrades without downtime.

The architect has recommended two 7240XM MCs. The customer points out that 7220 MCs can support enough APs and wonders why the architect recommended the 7240XMs. What should the architect explain?

- A. The 7240XMs MCs are required to support the large number of wireless clients in this network.
- B. The 7240XMs MCs support 40GbE ports, which are desirable for future proofing.
- C. The 7240XMs MCs can support full CPSec tunnels with this number of APs, while the 7220 MCs cannot.
- D. The 7240XMs MCs have more advanced clustering and availability capabilities than the 7220s MCs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 58 The airport needs to support several different SSIDs, including:

- four for individual airlines
- one for the airport as a whole
- one for airport security

The airport security traffic must terminate on different mobility controllers (MCs) from the rest of the airport traffic and be managed entirely separately. Airlines also want to terminate traffic at their MCs. The airport MCs and airport security MCs require redundancy while airlines do not. Which plan for MCs and Mobility Master (MM) meets the needs of this scenario?

- A. one MCs for the airport, one MC for airport security, and one MC for each of the four airlines with its own SSID, all controlled by the same MM
- B. one MCs for the airport, a cluster of MCs for airport security controlled by a pair of MMs, and one MC for each of the four airlines
- C. a cluster of MCs for the airport, a cluster of MCs for airport security, and one MC for each of four airlines, all controlled by the same MM pair
- D. a cluster of MCs for the airport controlled by an MM pair, a cluster of MCs for airport security controlled by a different MM pair, and one standalone MC for each of the four airlines.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

Refer to the exhibit.

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JX918A	Aruba AirWave DL360 Professional Edition Hardware Appliance	Hewlett Packard Enter...	\$37,995.00	2	\$75,990.00	USA Price List (USD)
1.01	H5ASSE	Aruba 1Y-FC NBO Exch AW DL360 PRO SVC [for JX918A]	Hewlett Packard Enter...	\$7,524.00	2	\$15,048.00	USA Price List (USD)
2.00	JW546AAE	Aruba LOC-AW Aruba Airwave with RAPIDS and VisualRF 1...	Hewlett Packard Enter...	\$75.00	1000	\$75,000.00	USA Price List (USD)
2.01	H2YV3E	Aruba 1Y FC 24x7 Airwave 1 Dev E-LTU SVC [for JW546A]	Hewlett Packard Enter...	\$12.00	1000	\$12,000.00	USA Price List (USD)
		Quote Total				\$178,038	

A customer needs an AirWave solution that can manage 1000 devices. The customer wants a hardware solution and active/standby redundancy for the solution. The exhibit shows the BOM that the architect has created.

Which corrections should the architect make?

- A. Change the active appliance to an Enterprise appliance. B. Add 1000 additional AirWave managed device licenses.
- C. Change both of the appliances to Enterprise appliance.
- D. Add a failover license for 1000 managed devices.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 60

A hospital needs a better way to track its inventory, including wireless medical devices that are moved around the site a lot. Which solution meets these needs?

- A. Aruba asset tags and beacons
- B. Aruba asset tags, APs, and Meridian
- C. Aruba beacons, APs, and AirWave
- D. Aruba beacons and Meridian

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference: