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**Vendor:**HP

**Exam Code:**HPE6-A49

**Exam Name:**Aruba Certified Design Expert 8 Written  
Exam

**Version:**Demo

**QUESTION 1**

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

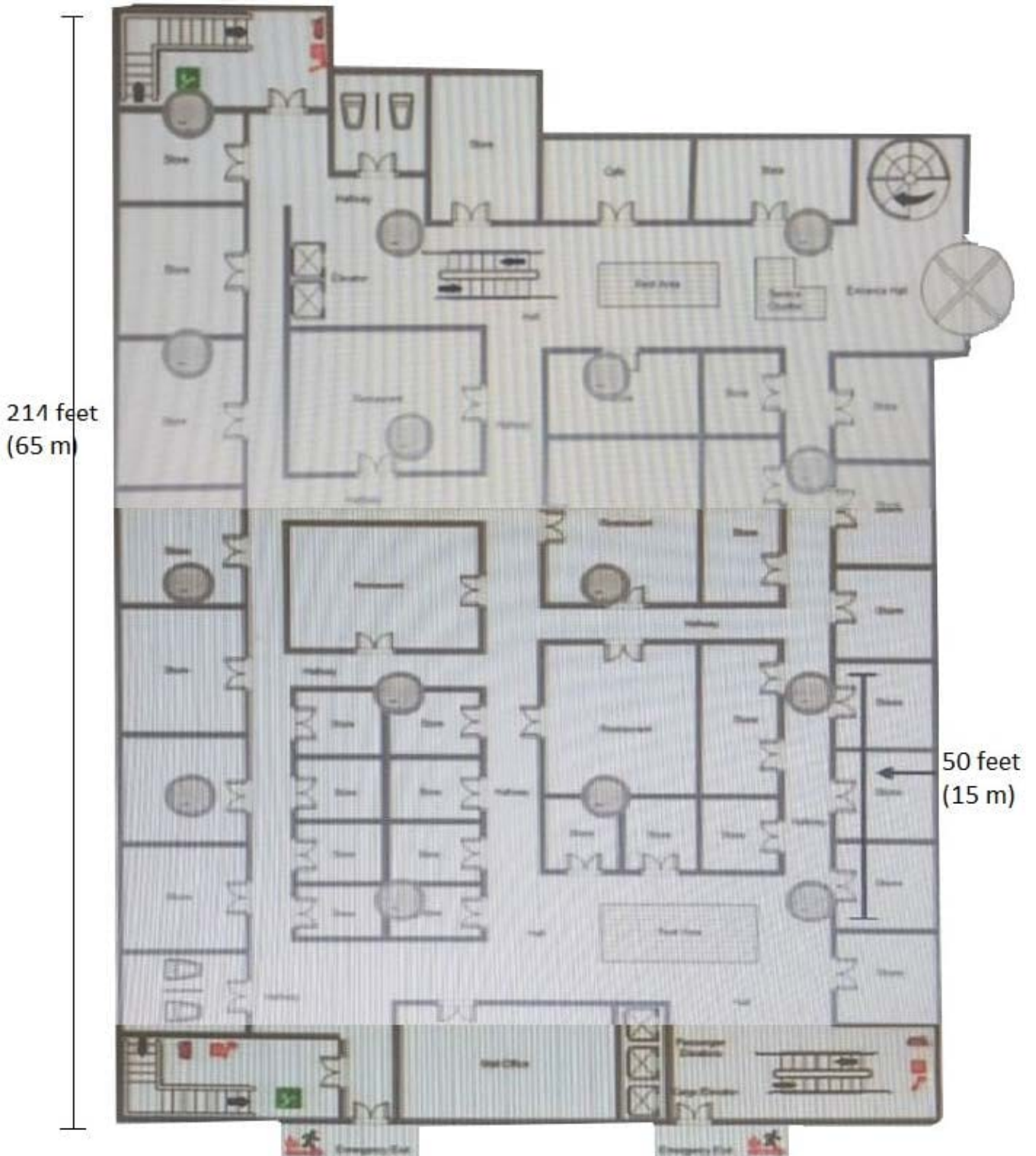
- A. MCs must be managed by an MM and connected to the same switch.
- B. MCs must be in a cluster and connected in the same VLANs.
- C. MCs must be directly connected on at least one port.
- D. MCs must have AP licenses assigned to them in a dedicated local pool.

Correct Answer: D

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**QUESTION 2**

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

**QUESTION 3**

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)
<b>Quote Total</b>						<b>\$115,911</b>	

B.

C.

D.

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	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-500 ELTU SVC [for JY895AAE]	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)
<b>Quote Total</b>						<b>\$193,196</b>	

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK 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 JY896AAE]	Hewlett Packard Enter...	\$2,701.00	1	\$2,701.00	USA Price List (USD)
<b>Quote Total</b>						<b>\$20,196.00</b>	

Quotation - Composite View

Line#	Part Number	Description	Manufacturer	Unit Price	Quantity	Total	Price List
1.00	JY896AAE	Aruba MM-VA-IK 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 JY896AAE]	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	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)
<b>Quote Total</b>						<b>\$185,111</b>	

Correct Answer: C

#### QUESTION 4

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 5

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

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### QUESTION 6

Refer to the exhibit.

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)
<b>Quote Total</b>						<b>\$103,400</b>	

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 a 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

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### QUESTION 7

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)

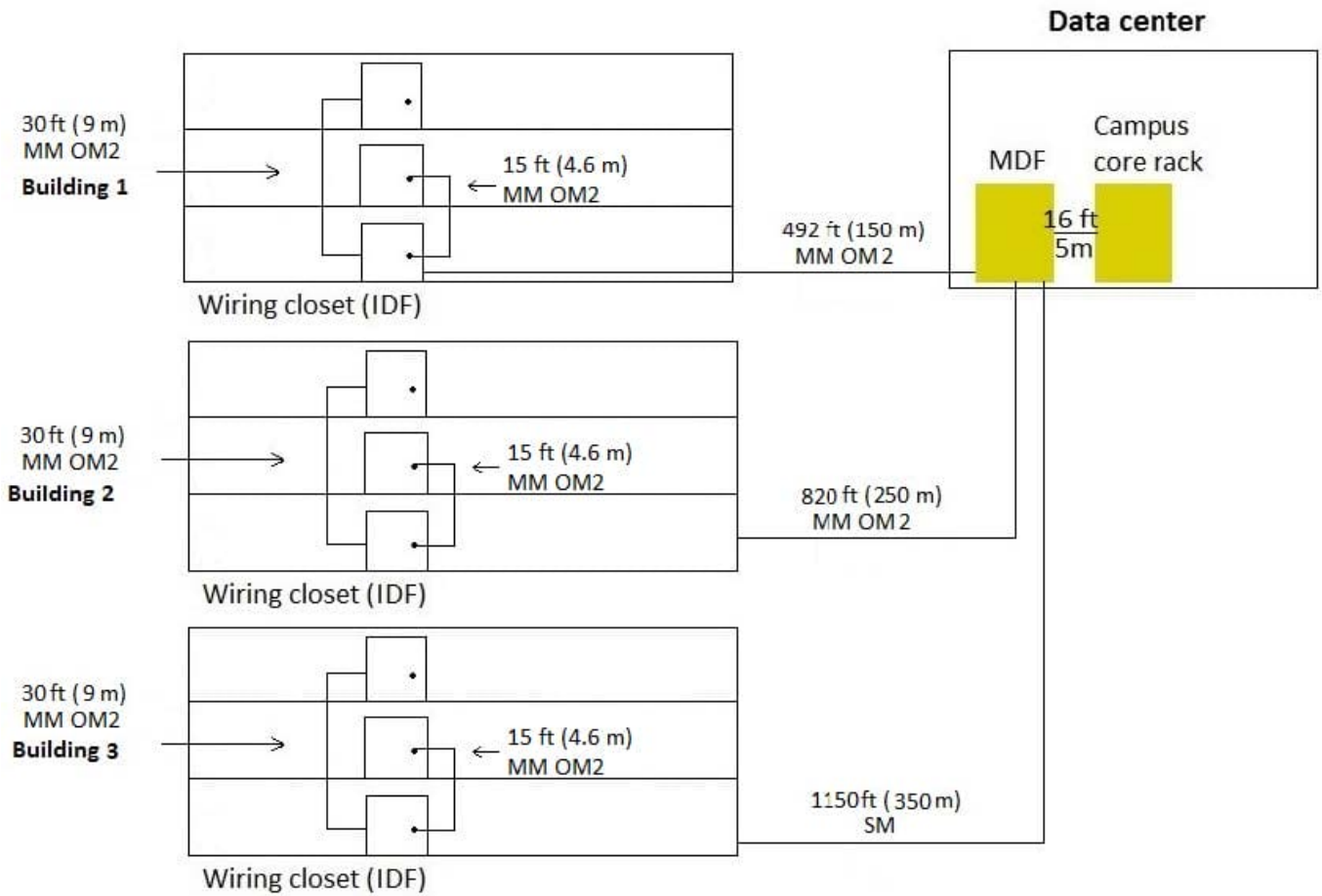
1GbE fiber uplinks

The existing aggregation switches support these features:

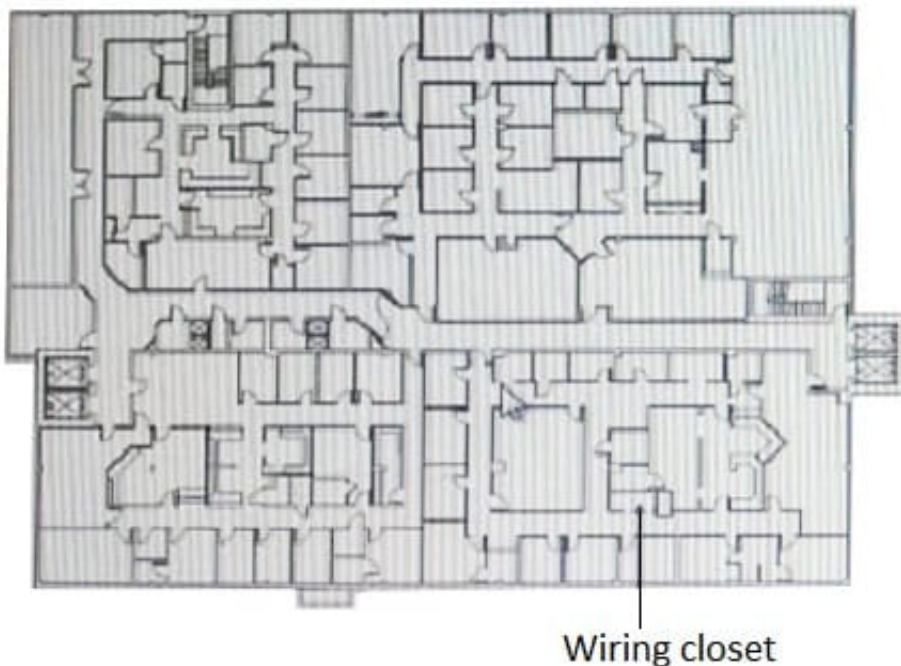
1/10GbE fiber ports

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 piece of additional information architects should obtain from the customer before they design the wireless



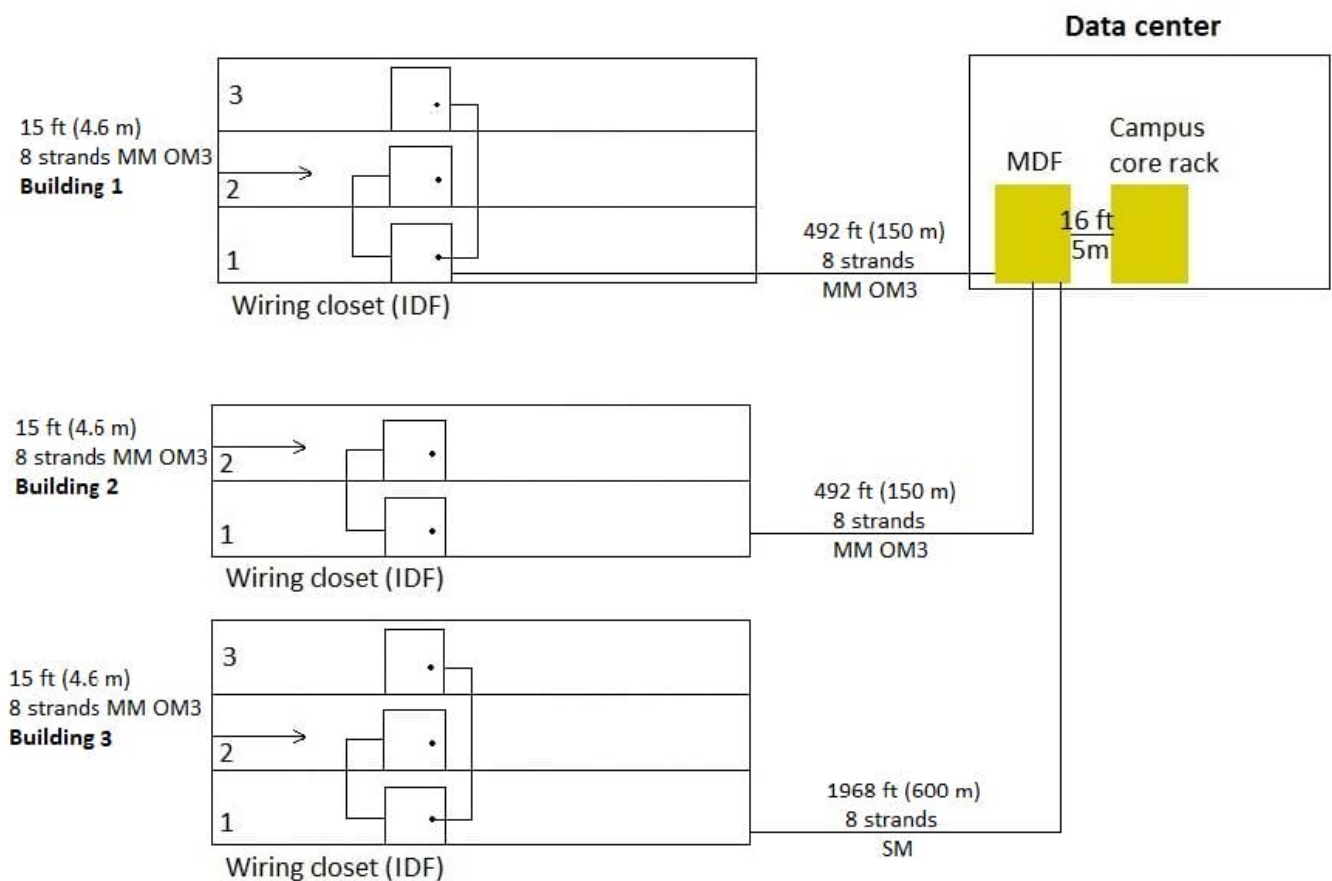
solution?

- 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 8

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?

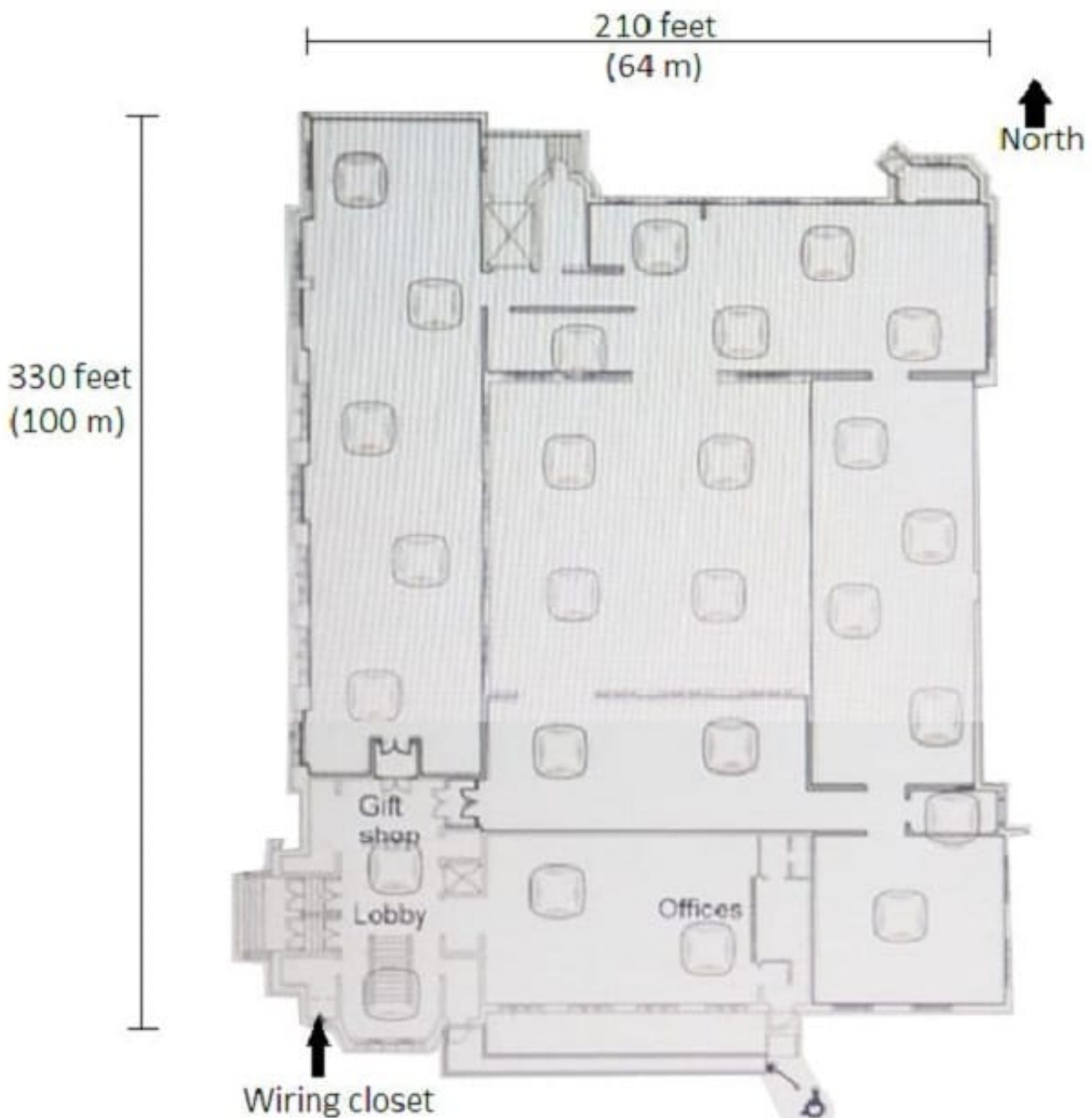
- A. All of the buildings
- B. Building 1 and Building 2 only
- C. Building 1 and Building 3 only
- D. Building 3 only

Correct Answer: C

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**QUESTION 9**

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

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#### **QUESTION 10**

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

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#### **QUESTION 11**

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

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#### **QUESTION 12**

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