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QUESTION 1

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)

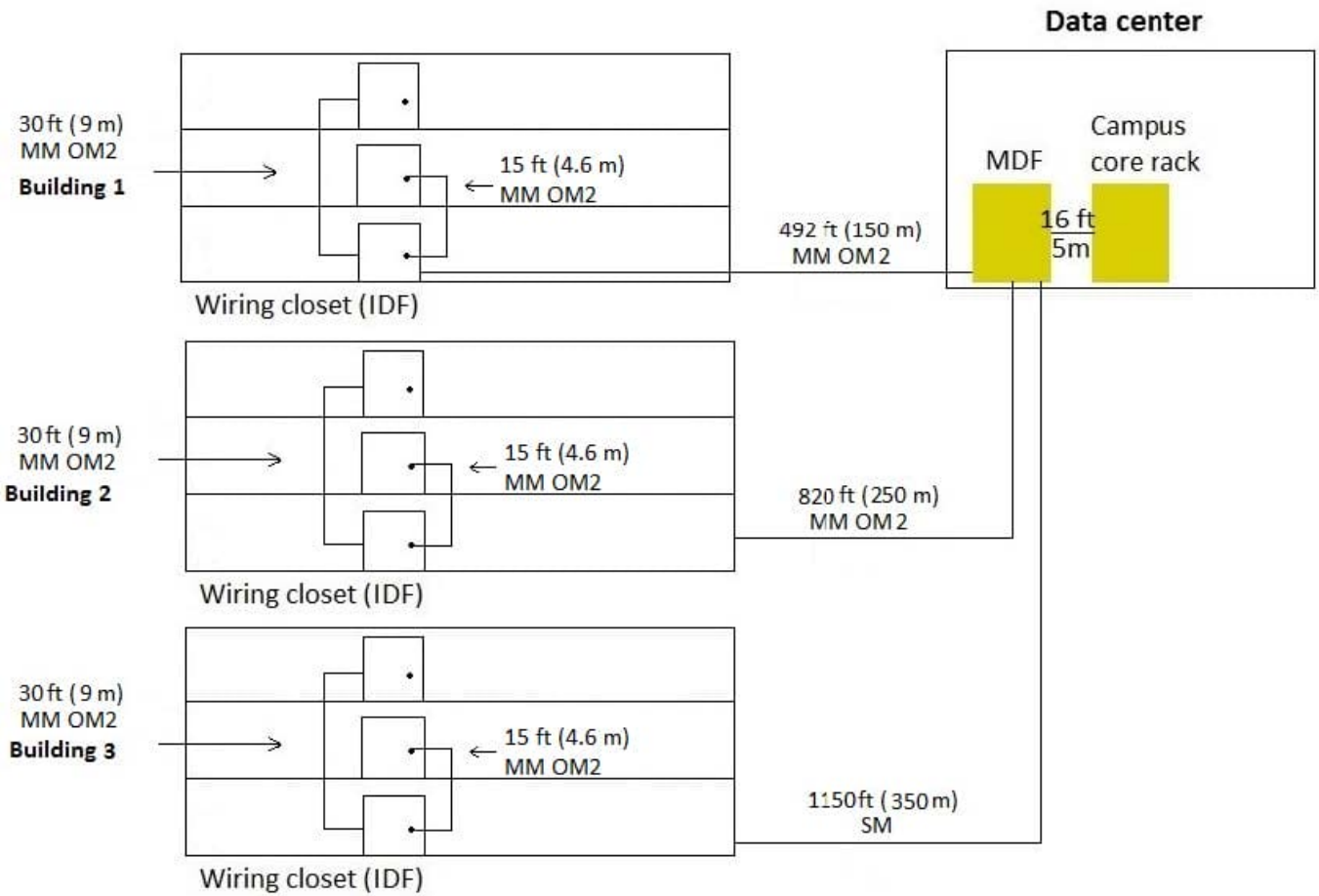
1GbE fiber uplinks

The existing aggregation switches support these features:

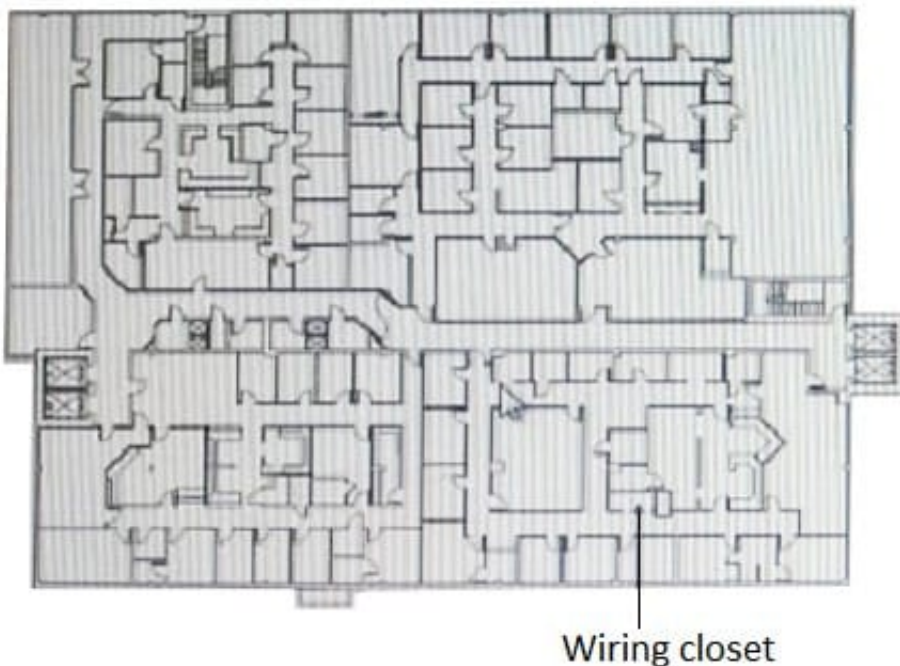
1/10GbE fiber ports

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 2

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

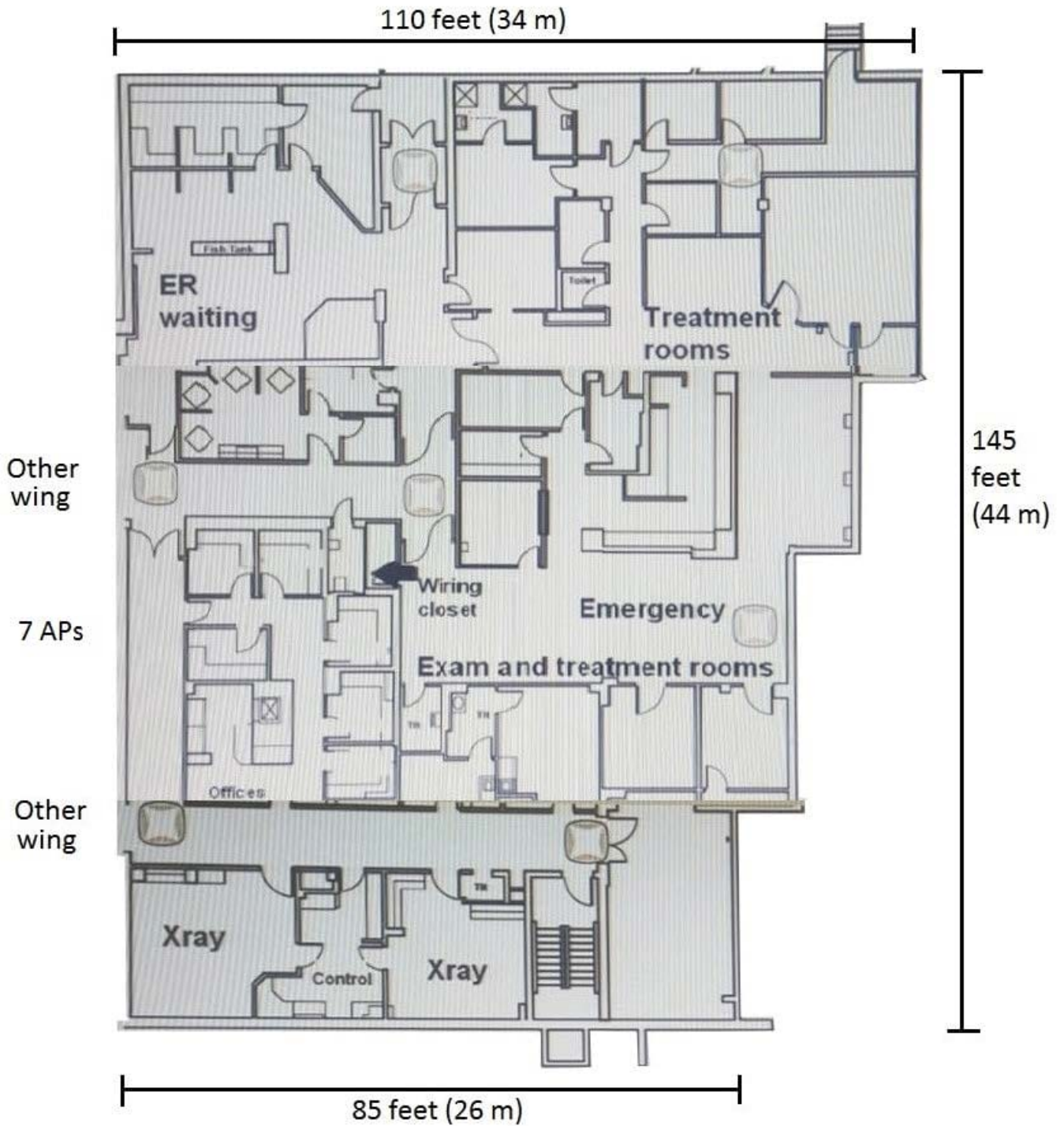
QUESTION 3

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

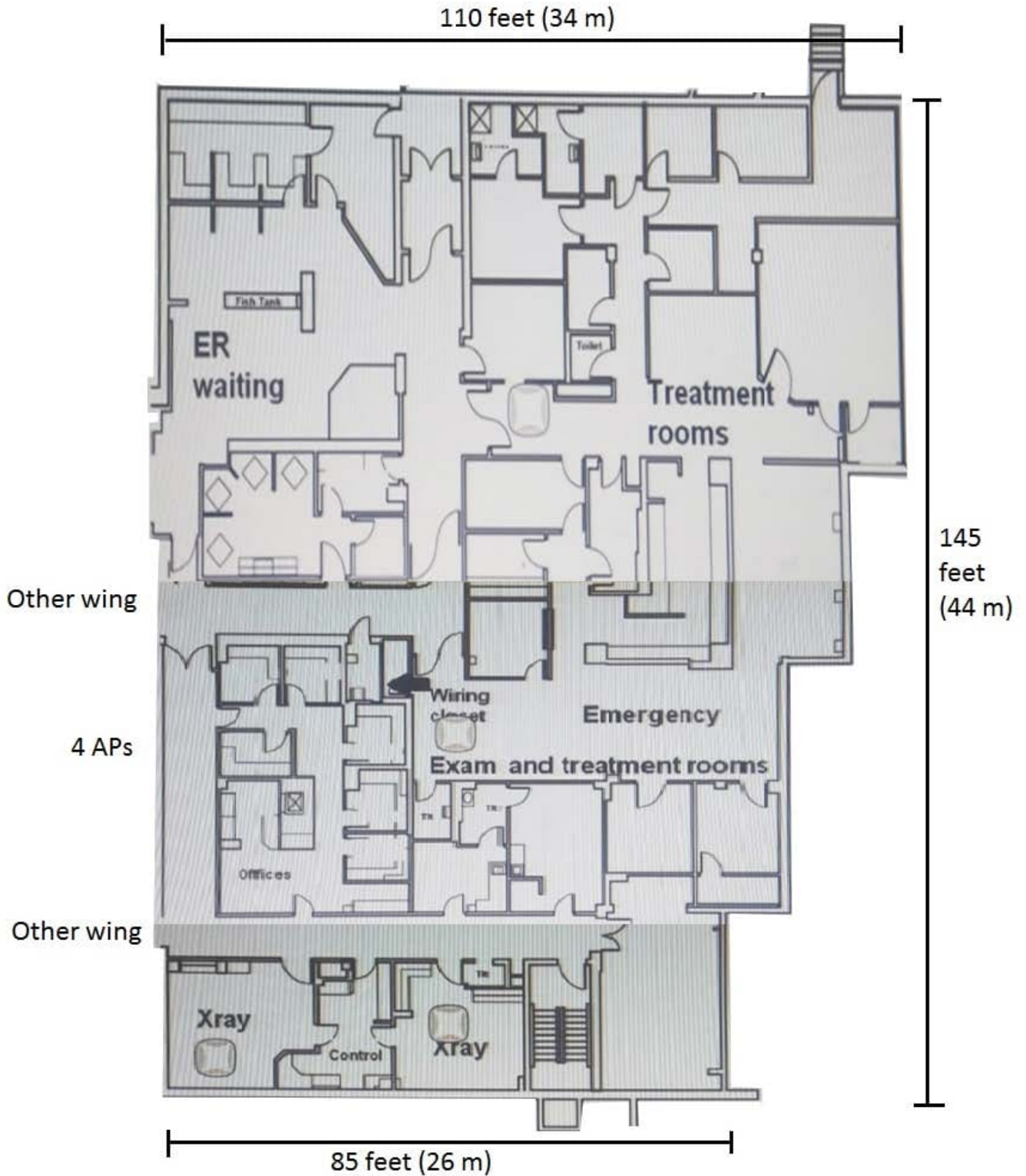
Several of these wireless medical devices are in the X-ray and X-ray control rooms. The architect has already planned to place APs in stairwells on another floor.

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

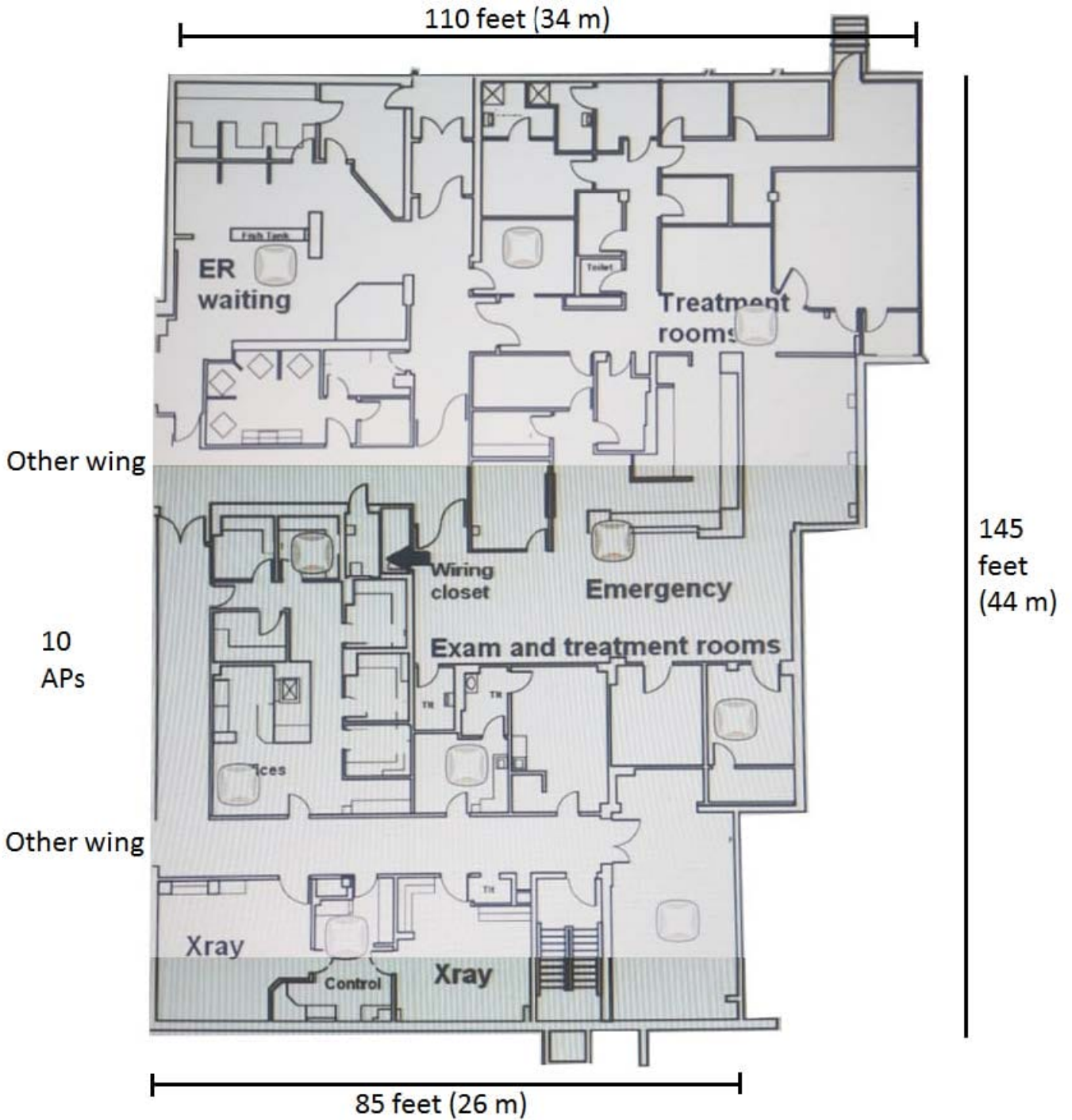
A.



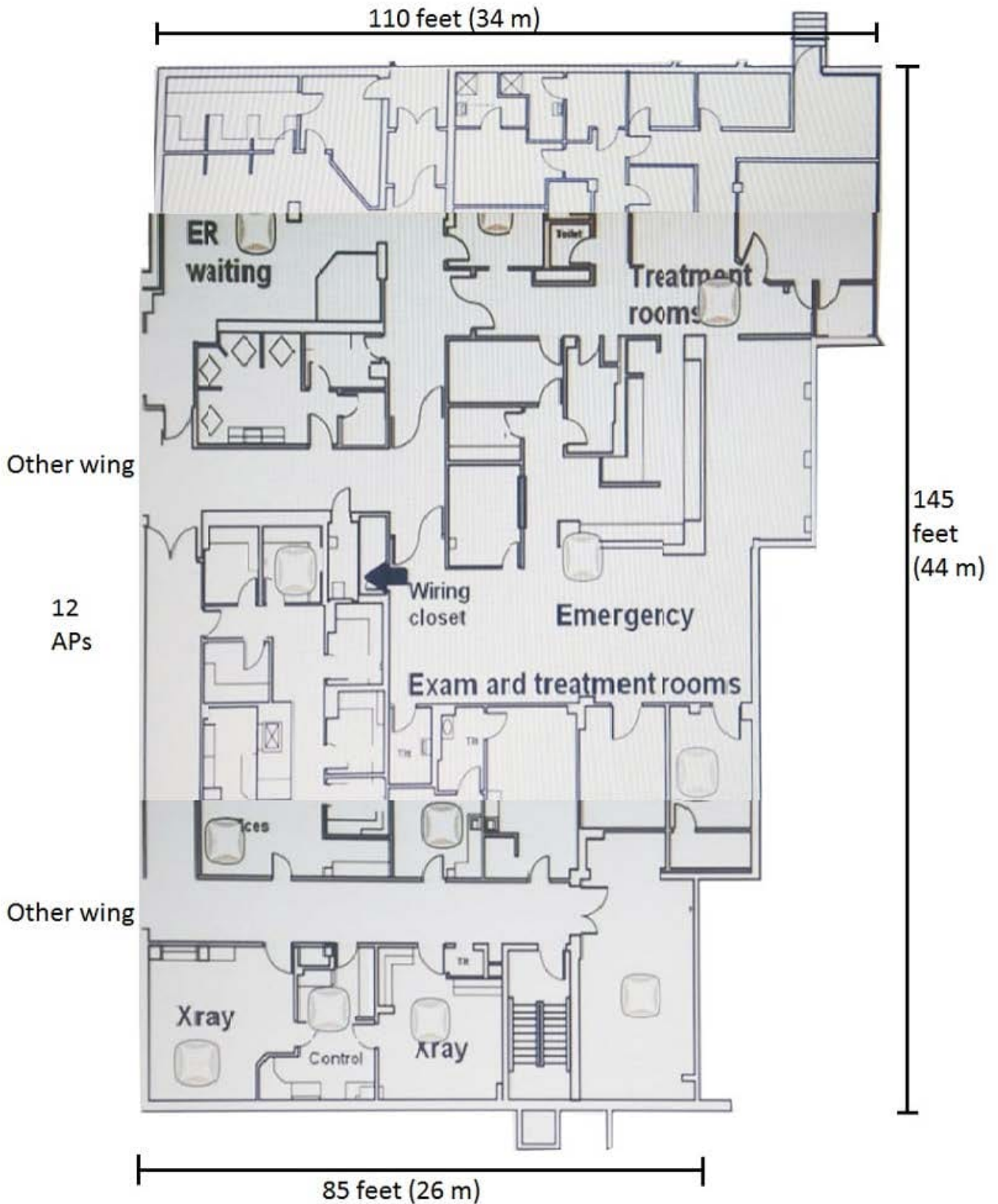
B.



C.



D.



Correct Answer: D

QUESTION 4

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

QUESTION 5

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