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**QUESTION 1**

Refer to the exhibit.

| Features | 7005 | 7008 | 7010 | 7024 | 7030 |
|---|---|---|---|---|---|
| Maximum campus AP licenses | 16 | 16 | 32 | 32 | 64 |
| Maximum remote AP licenses | 16 | 16 | 32 | 32 | 64 |
| Maximum concurrent users/devices | 1024 | 1,024 | 2,048 | 2,048 | 4,096 |
| Maximum VLANs | 4094 | 4094 | 4,094 | 4,094 | 4,094 |
| Active firewall sessions | 16,384 | 16,384 | 32,768 | 32,768 | 65,356 |
| Concurrent GRE tunnels | 256 | 256 | 512 | 512 | 1,024 |
| Concurrent IPsec sessions | 512 | 512 | 1,024 | 1,024 | 2,048 |
| Mobility Access Switch tunneled-node ports | 512 | 512 | 1,024 | 1,024 | 2,048 |
| Firewall throughput | 2 Gbps | 2 Gbps | 4 Gbps | 4 Gbps | 8 Gbps |
| Encrypted throughput (3DES, AES-CBC) | 1.2 Gbps | 1.2 Gbps | 2.4 Gbps | 2.4 Gbps | 2.4 Gbps |
| Encrypted throughput (AES- | 1.6 Gbps | 1.6 Gbps | 3.4 Gbps | 3.4 Gbps | 4 Gbps |

| Features | 7005 | 7008 | 7010 | 7024 | 7030 |
|---|---|---|---|---|---|
| Form factor/footprint | Compact | Compact | 1 rack unit | 1 rack unit | 1 rack unit |
| Auto-negotiating 10/1000/1000BASE-T PoE+ ports | N/A | 8 | 12 | 24 | N/A |
| Auto-negotiating 10/1000/1000BASE-T ports | 4 | N/A | 4 | N/A | 8 (combo) |
| Gigabit Ethernet ports (GBIC or SFP) | N/A | N/A | 2 SFP | 2 SFP+ | 8 (combo) |
| PoE power reserve | N/A | 100W | 150W | 400W | N/A |

A customer needs a new branch office solution that:

provides 802.11ac wireless access to local resources and the local Internet connection

connects wired and wireless users to resources at the main office in a secure manner

The office has 200 users, who will the up to two wireless devices at the same time. The architect has determined that the office requires 10-13 AP-515s. The customer wants to support a total bandwidth from an or me APS or about 2 cops.

The entire site is currently wired for CAT5e from a single wiring closet, which contains two access switches, a core

switch, and the Internet cable modem, which has 10/10O/1OQO Mbps BASE-T ports. The wired networK will handle abouti

Gbps of traffic. The switches do not support P0E/P0E+.

About 75 percent of all traffic is destined to the main office

The architect has looked up these specs for 7000 series controllers.

Which MC will meet the needs in the most cost-effective manner?
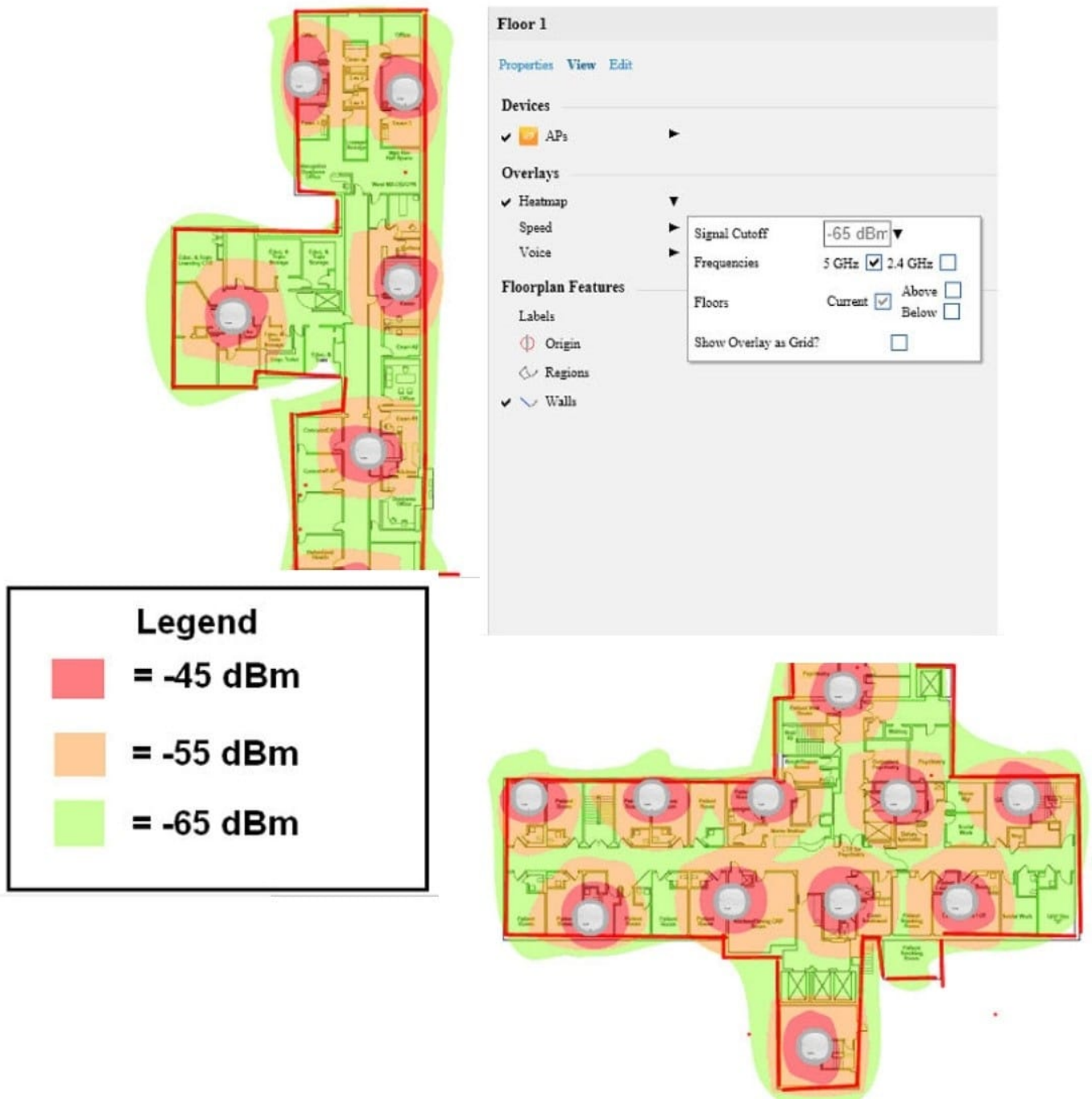
A. 7024

B. 7030

C. 7010

D. 7008

Correct Answer: A

**QUESTION 2**

Referto the exhibit.

**Floor 1**

Properties  View  Edit

**Devices**

✓  🟧 APs          ►

**Overlays**

✓  Heatmap        ▼

  Speed          ►    | Signal Cutoff | -65 dBm ▼ |
  Voice          ►    | Frequencies | 5 GHz ☐  2.4 GHz ☑ |

**Floorplan Features**

  Labels                | Floors | Current ☑   Above ☐  Below ☐ |
  ◐ Origin             | Show Overlay as Grid? | ☐ |
  ◁ Regions
✓  〰 Walls

**Legend**

🟥 = -45 dBm

🟧 = -55 dBm

🟩 = -65 dBm

A hospital needs an upgrade to 802.1tax 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 5GH2 band. Assuming about a max throughput on50 Mbps per AP; the hospital would like. The architect has used VisualRF to plan the AP placement on one of the floors, which the hospital

expects will need to suppod about 800 win

to deploy APS in stairwells between floors.

How well does the plan meet the requirements?

A. The current AP placement meets coverage requirements, but does not meet capacity requirements.

B. The current AP placement meets the customer requirements in terms of coverage and capacity.

C. The current AP placement fails to account for the lead-lined wails that are common in patient and exam rooms.

D. The current AP placement fails to provide adequate signal for the voice communicators in several areas

Correct Answer: C

**QUESTION 3**

DRAG DROP

Match each hospital room with a potential issue for the AP design (Each match will be used once.)

Select and Place:

| Hospital Room | | Potential Issue |
| --- | --- | --- |
| MRI room | | thick concrete or lead-lined walls |
| X-Ray room | | no AP allowed within for safety |
| Patient room | | no special RF considerations |

Correct Answer:

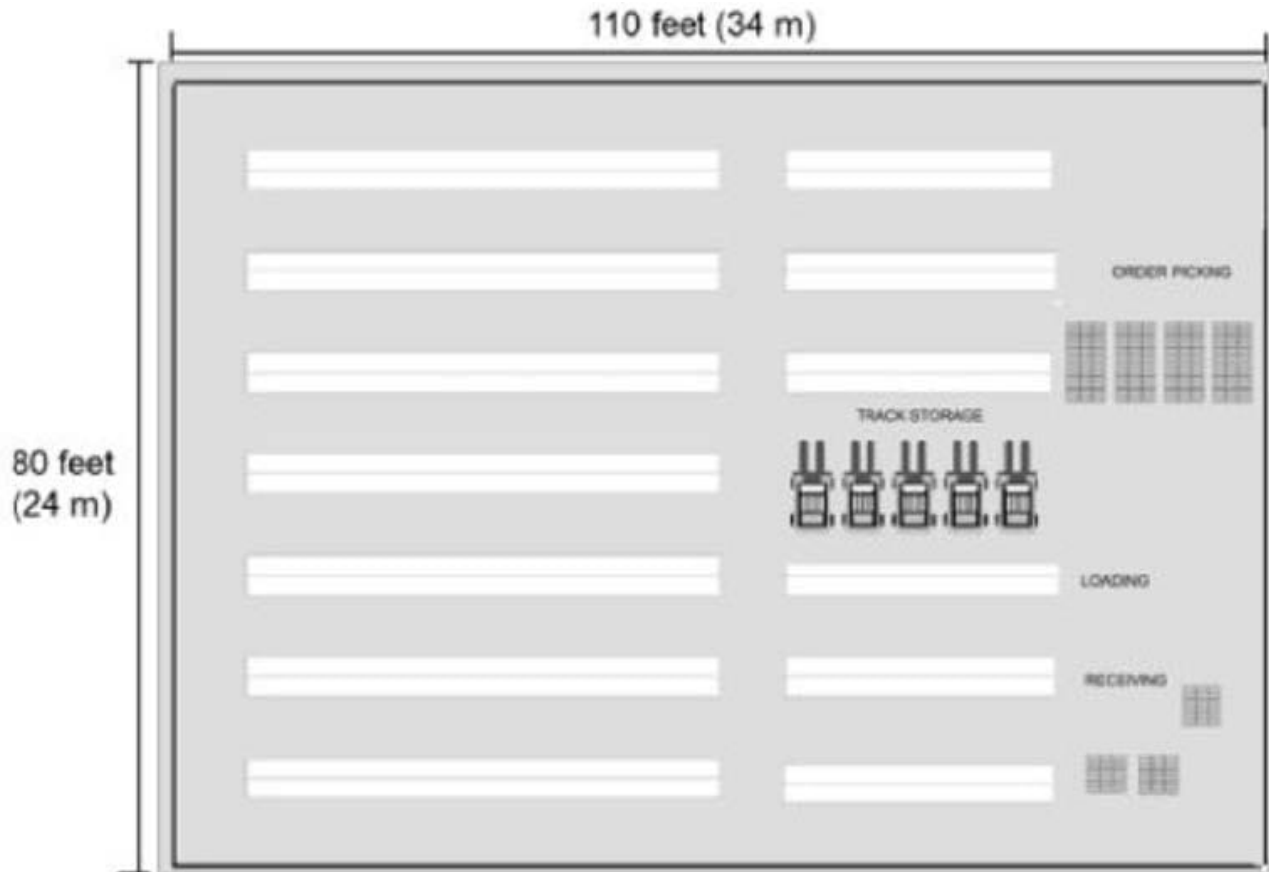| Hospital Room | Potential Issue |
|---|---|
| MRI room | no AP allowed within for safety |
| X-Ray room | no special RF considerations |
| Patient room | thick concrete or lead-lined walls |

**QUESTION 4**

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

A. the power requirements for the wireless loT devices and security cameras

B. the authentication and encryption capabilities for loT devices and security cameras

C. the distance between the locations where cameras will be installed and the wiring closet on each floor

D. the average number of users per loT device

Correct Answer: C

**QUESTION 5**

Refer to the exhibit.

This warehouse has the dimensions shown in the exhibit. The warehouse is 20 feet (6 m) high up to a steel railing on the

celling. The shelves are about 16 feet (5m) high, and they hold large containers filled with fluid and metal equipment.

The customer needs consistent wireless coverage throughout the warehouse, mostly to support the tablets that

employees use to run Inventory tracking and other applications. The warehouse staff works in shifts of 20.

The architect has selected AP-515S. About how many APs should the architect propose?

A. about 13-16

B. about 23-32

C. about 6-8

D. about 6-4

Correct Answer: C