



# 642-732<sup>Q&As</sup>

Conducting Cisco Unified Wireless Site Survey (CUWSS) v2.0

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### QUESTION 1

What are two advantages of conducting an active survey versus a passive survey when verifying RF coverage? (Choose two.)

- A. verifies roaming
- B. verifies signal level
- C. verifies packet loss
- D. verifies SNR
- E. verifies interferers

Correct Answer: AC

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### QUESTION 2

The customer has an existing 802.11b/g network with Cisco 2500 controllers. The customer would like to migrate to an 802.11a/b/g/n WLAN. Which network infrastructure issue might impact client performance in this proposed controller-based solution?

- A. The additional application load placed on servers by 802.11n clients.
- B. A bottleneck may occur if the access switch port to the AP only supports 100 Mb/s full duplex.
- C. The additional load placed on a RADIUS server by 802.1X authentication traffic on the first work day of each week.
- D. The added delay WDS imposes on the client when they roam from one AP to another.

Correct Answer: B

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### QUESTION 3

Aside from software applications, which two tools will be important to have when performing a WLAN site survey? (Choose two.)

- A. Measuring tools
- B. Temporary attachment devices (tie-wraps, clamps, duct tape)
- C. Architectural design drawings
- D. Different sizes and types of wrenches and pliers
- E. Portable battery packs to power WLAN clients
- F. Flag tape to outline wireless cell dimensions

Correct Answer: AB

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**QUESTION 4**

An engineer installed a Cisco Aironet 1400 Wireless Bridge as a central bridge. Which is the maximum power setting for a point-to-multipoint link?

- A. 12 dBm
- B. 13 dBm
- C. 22 dBm
- D. 24 dBm

Correct Answer: A

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**QUESTION 5**

An engineer is installing a wireless network in an industrial area with extreme temperatures and a significant amount of dust. Which enclosure should be used to protect the APs?

- A. NEMA
- B. ACU
- C. WLSE
- D. ADU

Correct Answer: A

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**QUESTION 6**

An engineer is conducting a site survey for use of Cisco 7925 wireless clients. Which two design criteria are necessary to ensure proper network design? (Choose two.)

- A. 15 percent overlap
- B. 20 percent overlap
- C. 25 percent overlap
- D. -65 dBm RSSI or better
- E. -67 dBm RSSI or better
- F. -72 dBm RSSI or better

Correct Answer: BE

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**QUESTION 7**

A new client has contacted you to design a WLAN solution for a new 30-foot high-bay warehouse that will use high-lift electric forklifts. The warehouse is currently empty except for storage racks. The customer is planning to continue to use their existing wireless barcode scanners and also deploy wireless IP phones for communication. Which four issues do you need to consider prior to performing the site survey? (Choose four.)

- A. Which protocol do the wireless barcode scanners and IP phones need to use?
- B. What is the proximity to other warehouses?
- C. Which types of goods will be stored in the warehouse and what is the expected average warehouse capacity?
- D. Do any planned WLC locations exceed 100 meter cable distances?
- E. Is there sufficient clearance between the roof and the top of the racks for placing APs?
- F. What is the expected humidity level in the warehouse on average during the year?
- G. Are there any secure enclosures that use chain-link fence that will require wireless access?

Correct Answer: ACEG

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**QUESTION 8**

What are the most appropriate channels for an 802.11a/n VoWLAN survey and deployment in the FCC domain?

- A. 4 channels of UNII-1
- B. 8 channels of UNII-1, and UNII-2
- C. 8 channels of UNII-1, and UNII-3
- D. 15 channels of UNII-2, and UNII-2 extended
- E. 23 channels of UNII-1, UNII-2, UNII-2 extended, and UNII-3
- F. 24 channels of UNII-1, UNII-2, UNII-2 extended, UNII-3, and ISM

Correct Answer: C

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**QUESTION 9**

An engineer is planning for a 24 Mbps data rate for a new installation. If the environment and other factors are not taken into consideration, what is the coverage area from the AP?

- A. 40 feet
- B. 80 feet
- C. 100 feet
- D. 150 feet



E. 225 feet

Correct Answer: B

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#### QUESTION 10

A network engineer is conducting an active wireless survey. Which four actions must be performed to ensure a successful survey? (Choose four.)

- A. Use the same AP model for the survey that is used in production.
- B. Point the antenna of the survey laptop towards the access point.
- C. Perform the survey when site is empty.
- D. Place the survey laptop antenna on a pole while surveying.
- E. Look for potential barriers of the propagation of RF signals.
- F. Identify areas that have high user density.
- G. Use the same wireless devices that the customer will use.

Correct Answer: AEFG

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#### QUESTION 11

A Cisco 1250 AP is deployed for a/b/g/n using version 7.0 software on 802.3af PoE. What are the three deployment results of the 5 GHz radio on channel size, spatial stream, and data rate? (Choose three.)

- A. 1 spatial stream
- B. 20 MHz
- C. 150 Mb/s
- D. 72 Mb/s
- E. 144 Mb/s
- F. 2 spatial streams
- G. 40 MHz
- H. 300 Mb/s

Correct Answer: ACG

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#### QUESTION 12

The customer had a 802.11b/g WLAN site survey and installation two years ago with the final service performing as



expected. Since that time, the customer has experienced modest customer growth while maintaining employee headcount. New wireless applications are being evaluated along with a possible temporary headcount increase, but the current WLAN performance has noticeable performance degradation. What is the most likely cause of the WLAN performance problems?

- A. They have added a second microwave to the break room.
- B. A new coffee shop with a wireless hotspot has opened across the street.
- C. The customer has expanded their shipping capacity by 50%.
- D. Employees are now using their smart phones and tablets in the office.

Correct Answer: D

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### QUESTION 13

In performing a post-deployment audit, you are concerned by significant changes in measured RSSI and SNR values taken on a wireless client in one location. How do you explain the differences in these values?

- A. The differences in the RSSI and SNR values are a result of signal diffusion in the environment.
- B. The differences in the RSSI and SNR values are a result of multipath in the environment.
- C. The differences in the RSSI and SNR values are a result of signal absorption in the environment.
- D. The differences in the RSSI and SNR values are a result of signal diffraction in the environment.

Correct Answer: B

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### QUESTION 14

Mesh APs are commonly mounted alongside a pole, meaning they are both vertically aligned and the pole could partially block the mesh AP RF signal. What is the maximum degree angle to allow for blockage of the antenna field of view?

- A. 2 degrees
- B. 5 degrees
- C. 10 degrees
- D. 15 degrees

Correct Answer: B

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### QUESTION 15

What is the result if a client radio is incapable of supporting all the 5 GHz channels you have deployed in the controller or APs?



- A. You may only be able to deploy 20 MHz-wide channels.
- B. This may result in the client having to roam more frequently to find a channel it supports.
- C. This may result in coverage holes in the network.
- D. You may only be able to deploy 40 MHz-wide channels.

Correct Answer: C

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#### QUESTION 16

Which three components make up a Statement of Work? (Choose three.)

- A. Post-survey recommendations
- B. WLAN testing information
- C. A list of changes in scope
- D. Survey type
- E. A list and description of locations to be surveyed.
- F. Confirmation of timeline and cost
- G. A list of equipment required to perform network analysis

Correct Answer: DEF

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#### QUESTION 17

Which two options indicate the RF channels regulated by 802.11h for outdoor deployment regarding FCC? (Choose two.)

- A. 36, 40, 44, 48
- B. 52, 56, 60, 64
- C. 100, 104, 108, 112
- D. 149, 153, 157, 161
- E. 165

Correct Answer: BC

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#### QUESTION 18

The wireless survey report shows APs staggered throughout a facility, with several of them placed right on the exterior walls. Other APs are located right at building corners and major turns in the structure layout. Assuming all survey



locations are optimized with a minimum of -67 RSSI at cell edges with 20% overlapping cells, for what purpose can this survey model be used?

- A. location based services and BYOD preparation
- B. voice and data clients with video on demand
- C. streaming video with VoIP and data as an option
- D. location services, VoIP, data, and video

Correct Answer: D

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### QUESTION 19

An engineer is conducting a site calibration using Cisco WCS. The current network has 802.11a, 802.11b, 802.11g, and 802.11n devices. How many times should the calibration be done?

- A. once for each band
- B. once for each protocol
- C. once per deployment
- D. once using each data collection type

Correct Answer: A

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### QUESTION 20

Which tool can best provide throughput verification?

- A. WLC > Monitor > Clients > LinkTest
- B. WaveDeploy
- C. InSSIDer
- D. Xirrus Wi-Fi Inspector

Correct Answer: B

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### QUESTION 21

In an outdoor mesh environment, which is the purpose of deploying one of the access points relatively higher than the others?

- A. The MAPs need to be mounted higher than the first hop RAPs so that the mesh units can accomplish radio line of sight.
- B. Elevated MAPs are connected to the switches, providing better bandwidth than all the RAPs utilize for client





connectivity.

C. An AP deployed as a RAP needs to be mounted in a higher elevation to provide clear connectivity to first hop MAPs.

D. Root APs need clear line of sight to provide the best bandwidth to all of its RAPs, so the higher the better.

Correct Answer: C

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#### QUESTION 22

A network engineer acquired a floor plan of a building, temporarily mounted an 1132 AP, associated a wireless NIC to the AP, and began documenting packet exchanges between the AP and the wireless NIC while walking throughout the facility. What best describes what the engineer was doing?

A. Air Magnet predictive site survey

B. Cisco Spectrum expert Survey

C. Ekahau active site survey

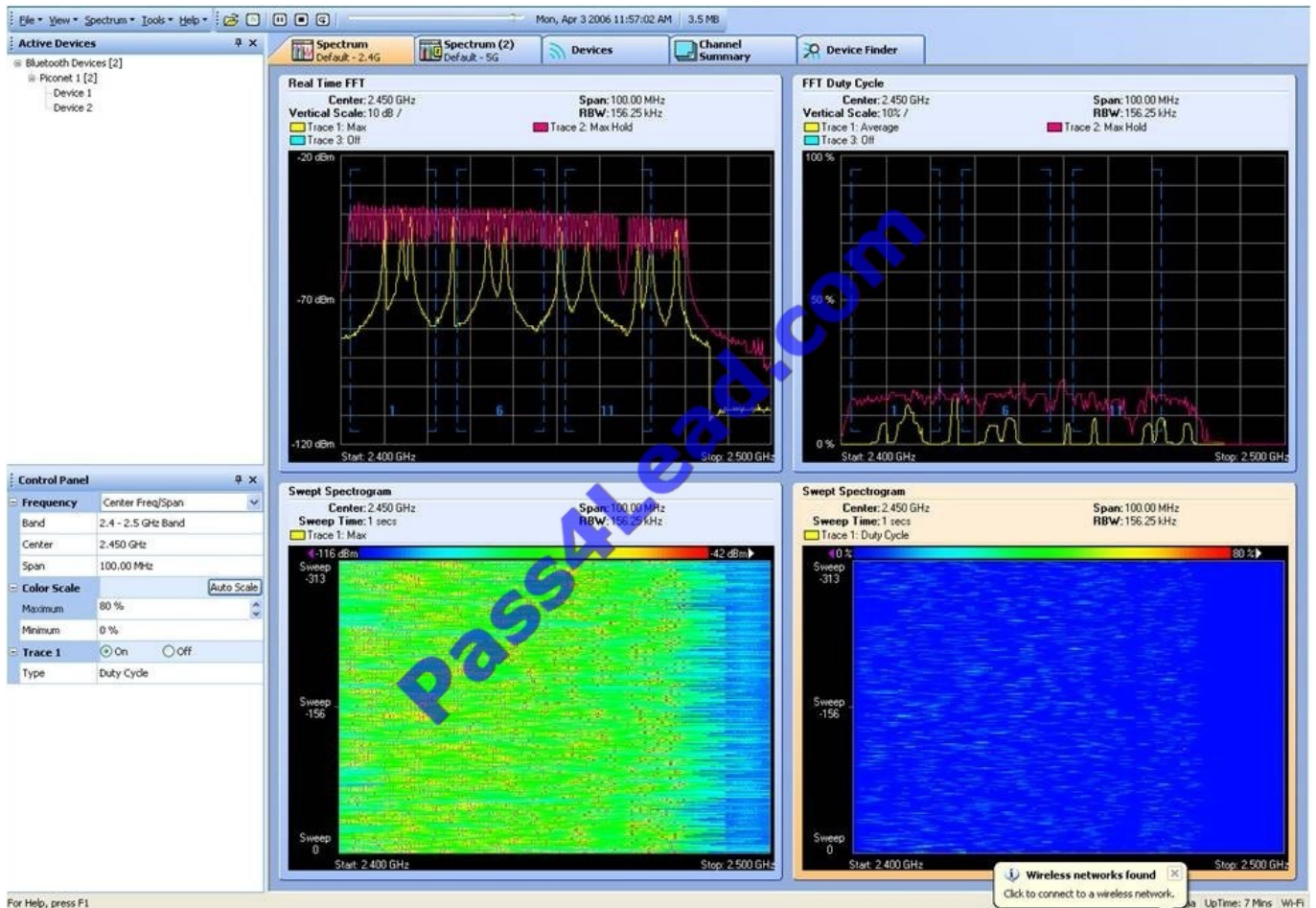
D. Air Magnet passive site survey

Correct Answer: C

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#### QUESTION 23

Refer to the exhibit.



After performing a Layer 1 survey using Cisco Spectrum Expert, what is the result indicated by the visual screen?

- A. Normal 802.11b activity
- B. Normal 802.11g activity
- C. Microwave oven interference
- D. Video camera interference
- E. Bluetooth device interference

Correct Answer: E

#### QUESTION 24

For better compatibility with 802.11n clients, which 802.11a channels should be utilized?

- A. UNII-2 Band - extended channels
- B. UNII-1 Band
- C. UNII-3 Band

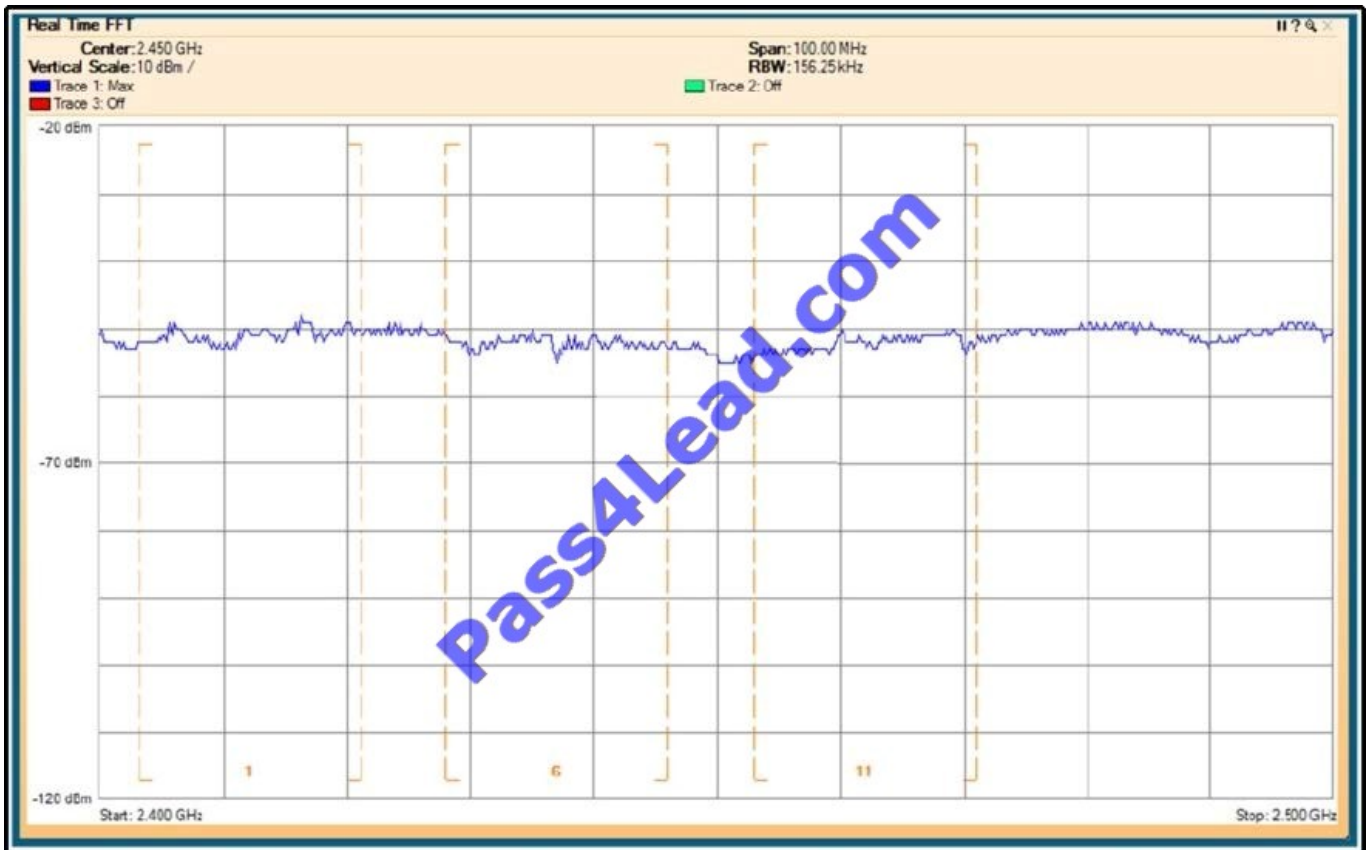


D. ISM Band

Correct Answer: B

### QUESTION 25

Refer to the exhibit. Clients are being disconnected from the WLAN. Which source of interference can cause a Denial of Service?



- A. jammer
- B. microwave oven
- C. Bluetooth devices
- D. wireless video camera
- E. ZigBee device

Correct Answer: A

### QUESTION 26

Which option will allow the maximum 2.4 GHz channel usage for a survey and voice deployment in the ETSI domain?



- A. 1, 6, 11
- B. 1, 5, 9, 13
- C. 1, 6, 9, 14
- D. 1, 6, 11, 14

Correct Answer: A

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#### QUESTION 27

An engineer notes that some areas of a floor fail when using the Location Readiness Tool in Cisco WCS. What criteria must be met for a point to be considered location ready?

- A. one AP in each quadrant, with three less than 70 feet away
- B. one AP in three quadrants, with two less than 70 feet away
- C. one AP in each quadrant, with two less than 70 feet away
- D. one AP in three quadrants, with one less than 70 feet away

Correct Answer: A

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#### QUESTION 28

The customer site requires Cisco 1400 bridges with 28dBi external antennas in a PTP design. What is the maximum power setting allowed by Cisco?

- A. 150 mW
- B. 155 mW
- C. 160 mW
- D. 145 mW

Correct Answer: B

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#### QUESTION 29

Which three types of infrastructure issues need to be verified prior to performing a wireless site survey? (Choose three.)

- A. MDF and IDF closet locations and if the cable that runs from each closet can reach the proposed AP locations.
- B. Available riser capacity for additional backbone cable connections
- C. VLAN and IP address deployment strategy
- D. Status of QoS deployed

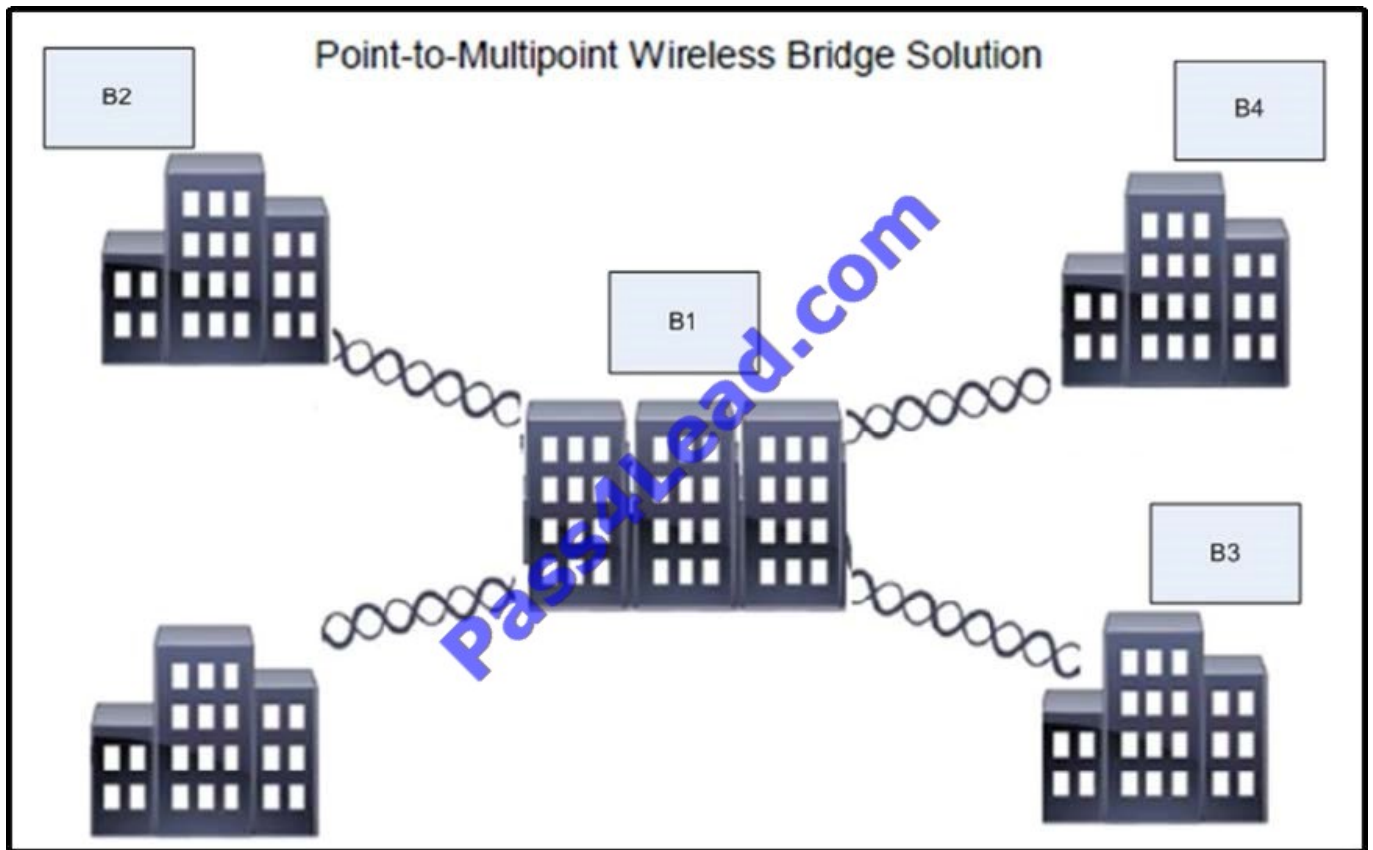


- E. Electrical capacity for each MDF and IDF
- F. HVAC capacity for each MDF and IDF
- G. Locations of application servers

Correct Answer: ACD

### QUESTION 30

Refer to the exhibit. A company requires a multi-point bridge solution with Cisco 1400 series bridges. The central bridge (B1) is set to 10 dBm, the manufacturing remote bridge (B2) is set to 20 dBm, the inventory remote bridge (B3) is set to 20 dBm, and the shop remote bridge (B4) is set to 10 dBm. What is the maximum allowed power setting for all four bridges?



- A. B1=12dBmB2=12dBmB3=12dBmB4=12dBm
- B. B1=12dBmB2=24dBmB3=24dBmB4=24dBm
- C. B1=24dBmB2=12dBmB3=12dBmB4=12dBm
- D. B1=24dBmB2=24dBmB3=24dBmB4=24dBm
- E. B1=20dBmB2=20dBmB3=20dBmB4=20dBm
- F. B1=10dBmB2=24dBmB3=24dBmB4=24dBm



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Correct Answer: B

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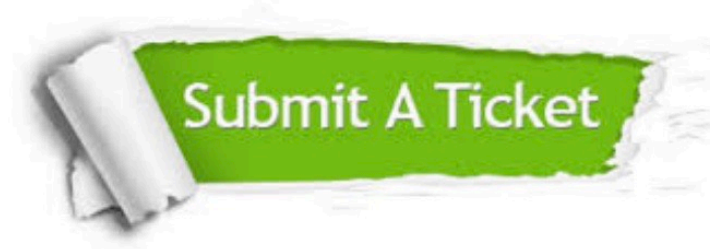
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