



# 300-360<sup>Q&As</sup>

Designing Cisco Wireless Enterprise Networks

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### QUESTION 1

What is the Cisco-recommended cell overlap percentage for a typical RToWLAN network design?

- A. 5 to 10
- B. at least 20
- C. a maximum of 20
- D. at least 50

Correct Answer: B

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### QUESTION 2

Refer to the exhibit. An engineer has determined that Cisco 7925 phones are roaming between 2.4 GHz and 5 GHz radios on the same access points, which results in poor audio performance. Which action must the engineer take to mitigate this issue?



Freeze  
 Off

**Invoke Channel Update**

Avoid Foreign AP interference  Enabled  
 Avoid Cisco AP load  Enabled  
 Avoid non-802.11 noise  Enabled  
 Avoid Persistent Non-Win Interference  Enabled

Channel Assignment Leader Remote (10.10.200.254)  
 Last Auto Channel Assignment 684 secs ago  
 DCA Channel Sensitivity **Medium** (15dB)

Channel Width  20 MHz  40 MHz  80 MHz  
 Avoid check for non-DFS channel  Enabled

**DCA Channel List**

52, 56, 60, 64, 149, 153, 157, 161, 165

**DCA Channels**

Interference Optimal Mode (TPCv2)  
 Coverage Optimal Mode (TPCv1)

**Tx Power Level Assignment Algorithm**

Power Level Assignment Method  Automatic Every 600 sec:  
 On Demand **Invoke Power Update now**  
 Fixed 1

Maximum Power Level Assignment (-10 to 30 dBm) 30  
 Minimum Power Level Assignment (-10 to 30 dBm) -20  
 Power Threshold (-80 to -50 dBm) -70  
 Power Neighbor Count 3  
 Power Assignment Leader REMOTE (10.10.200.254)  
 Last Power Level Assignment 50 secs ago

**802.11a Global Parameters**

**General**

802.11a Network Status  Enabled  
 Beacon Period (milliseconds) 100  
 Fragmentation Threshold (bytes) 2346  
 DTPC Support  Enabled  
 Maximum Allowed Clients 200  
 RSSI Low Check  Enabled  
 RSSI Threshold (-60 to -90 dBm) -80

**802.11a Band Status**

Low Band Enabled  
 Mid Band Enabled  
 High Band Enabled

**Data Rates\*\***

6 Mbps Supported  
 9 Mbps Supported  
 12 Mbps Mandatory  
 18 Mbps Supported  
 24 Mbps Supported  
 36 Mbps Supported  
 48 Mbps Supported  
 54 Mbps Supported

**CCX Location Measurement**

Mode  Enabled



- A. Enable TPCv2 to normalize the RF environment.
- B. Configure EDCA parameters for Voice Optimized.
- C. Configure the Cisco 7925 phone to only use 5.6 GHz.
- D. Enable Band Select on the WLAN

Correct Answer: B

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### QUESTION 3

When designing and deploying an outdoor mesh network, what is the appropriate RF cell overlap?

- A. 10 percent
- B. 15 percent
- C. 20 percent
- D. 25 percent
- E. Application dependent

Correct Answer: E

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### QUESTION 4

An engineer is planning for a 24 Mbps data rate on the 5GHz band for a new installation. What is the coverage area from the AP if the environment and other factors are not taken into consideration?

- A. 225 feet
- B. 80 feet
- C. 150 feet
- D. 100 feet

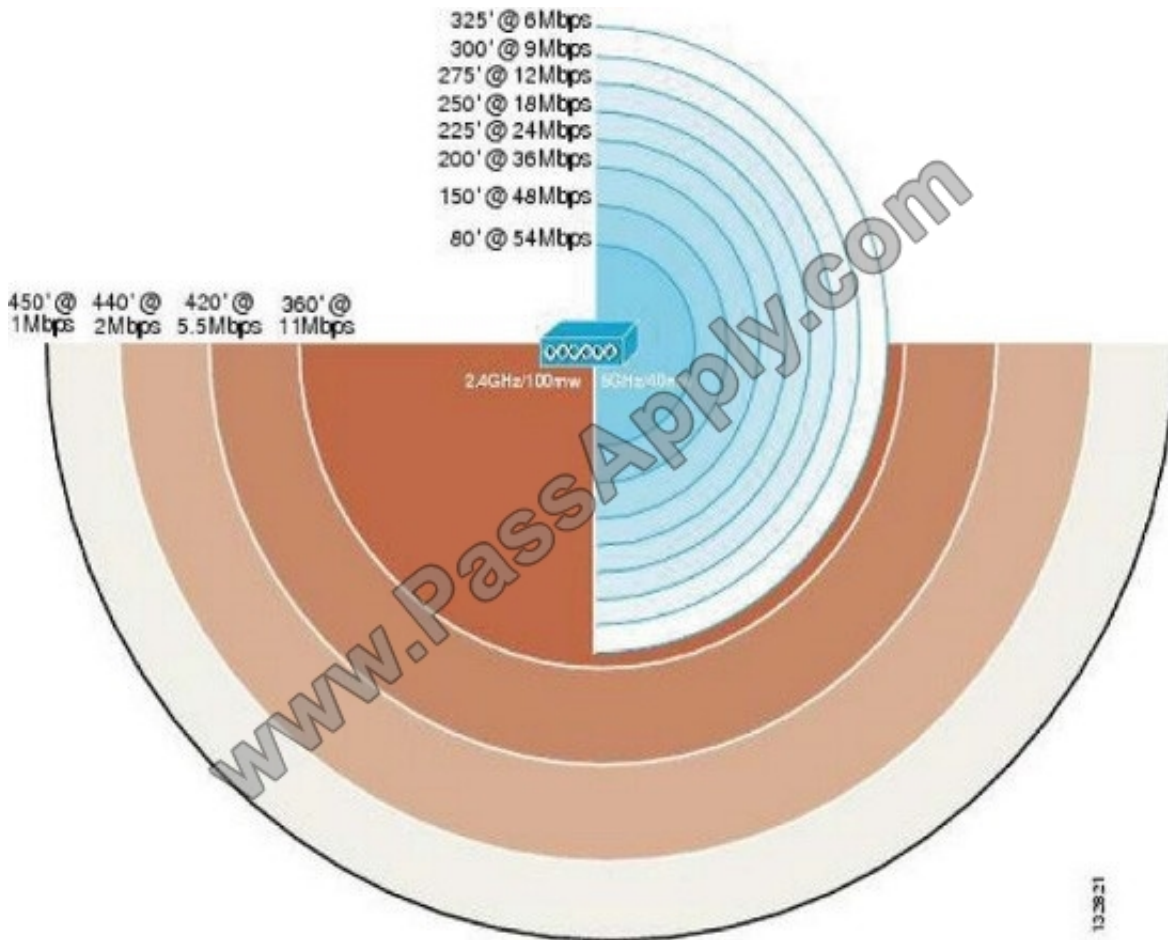
Correct Answer: A

Coverage (Cell Size)

Lower data rates can be demodulated across greater distances than higher data rates. This is because of the lower complexity encoding schemes -- the signal can be understood at a lower SNR. Enable lower data rates in order to increase

the effective range of the AP; disable the lower data rates in order to decrease the effective range of the AP.

Figure 16: Coverage (Cell Size)



Reference: <https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-survey-guidelines-wlan-00.html>

### QUESTION 5

What RF phenomenon results from a presence of metallic I-beams, conveyor belts, chain-link fences, and metallic shelves found in a warehousing environment?

- A. scattering
- B. absorption
- C. free path loss
- D. multipath

Correct Answer: D

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