



300-360^{Q&As}

Designing Cisco Wireless Enterprise Networks

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QUESTION 1

What protocol can be enabled to listen in on IPv4 multicast streams and maintain a map of what each client requests on a wireless LAN controller?

- A. IGMP
- B. MLD
- C. PAP
- D. ICMP
- E. SIP
- F. NTP

Correct Answer: A

QUESTION 2

You are designing a wireless network that contains many different types of wireless clients. How do you conduct a survey to ensure a consistent experience for all of the wireless clients?

- A. by using the client that has the highest RF properties
- B. by using the client that is used most by the company
- C. by using a client of every different type
- D. by using the client that is used least by the company

Correct Answer: B

QUESTION 3

While performing a Layer 1 passive wireless site survey of a location an engineer detects several instances of low power frequency hopping interference, but cannot physically locate the interfering device or devices. Why is the engineer unable to locate the offending device or devices?

- A. The sources are nearby narrow-beam radar and are sweeping through the facility.
- B. The sources are PAN and are mobile.
- C. The sources are above the ceiling file and transmit intermittently.
- D. The sources are actually high-powered devices and transmit from off the site.

Correct Answer: B

**QUESTION 4**

An engineer is assigned to assist a customer by estimating the number of access points needed to provide voice-grade wireless coverage in a carpeted office space. How many access points should be estimated to cover this space of roughly 38,000 square feet?

- A. 17
- B. 10
- C. 6
- D. 13

Correct Answer: D

The rule of thumb coverage plan is 1 AP per 5,000 square feet for data and 1 per 3,000 square feet for voice and location services. Reference:

http://www.cisco.com/c/en/us/td/docs/wireless/technology/apdeploy/8-0/Cisco_Aironet_3700AP.html

QUESTION 5

An engineer must implement a cabling infrastructure that supports speeds up to 10 G, can run a good distance before cable loss, and can support IEEE 802.11ac speeds. Which infrastructure satisfies these requirements?

- A. CAT 3 cables
- B. CAT 6A cables
- C. CAT 5E cables
- D. CAT 5 cables

Correct Answer: B

QUESTION 6

What is the optimal distance between APs for location services without considering the physical environment?

- A. 10 to 25 feet
- B. 90 to 120 feet
- C. 50 to 70 feet
- D. 80 to 100 feet

Correct Answer: C

Reference: <http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch13Loca.html>

**QUESTION 7**

An engineer is shipping equipment, including a battery, for a wireless survey overseas. To ensure that it is accepted onto the aircraft, the battery must comply with which standard?

- A. EC
- B. FCC
- C. IATA non-restricted
- D. FAA

Correct Answer: C

QUESTION 8

Which three things do you need to consider prior to performing a wireless site survey? (Choose three.)

- A. The time required to acquire any additional infrastructure components.
- B. The time required to survey each potential AP location.
- C. The time required to assess application server locations at the customer facility.
- D. The type of wireless survey tools required to perform the site survey.
- E. The time required to assess customer WLAN density and throughput requirements.
- F. The time required to utilize the design mode in Cisco WCS to prepare a preliminary WLAN design to reduce on-site survey time.

Correct Answer: BDE

QUESTION 9

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

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 (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
☐ Fixed

Maximum Power Level Assignment (-10 to 30 dBm)
Minimum Power Level Assignment (-10 to 30 dBm)
Power Threshold (-80 to -50 dBm)
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)
Fragmentation Threshold (bytes)
DTPC Support ☒ Enabled
Maximum Allowed Clients
RSSI Low Check ☐ Enabled
RSSI Threshold (-60 to -90 dBm)

802.11a Band Status

Low Band Enabled
Mid Band Enabled
High Band Enabled

Data Rates**

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

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 MHz.
- D. Enable Band Select on the WLAN

Correct Answer: B

QUESTION 10

Which description of Cisco Centralized Key Management is true?

- A. It allows the wireless infrastructure to cache the credentials, which eliminates the need to conduct a full reauthentication when roaming.
- B. By caching their credentials, it helps clients save scanning time when looking for a new AP to join.
- C. It allows wireless clients to cache their credentials so that, while they are roaming, they don't need to reauthenticate to the wireless infrastructure.
- D. It enables the controller to send directed roam requests to a client in situations when the controller can better service the client on a different AP than the one to which the client is associated.

Correct Answer: A

QUESTION 11

An engineer has received CleanAir alarms for non-Wi-Fi interferers affecting the wireless network. Which OSI Layer does the engineer investigate to locate the source of these interferers?

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 7

Correct Answer: B

QUESTION 12

A corporation has a Cisco Unified Wireless Network that has been deployed for voice coverage. The wireless data rates have been tuned to mandatory rates of 18 Mbps and 36 Mbps. Some wireless clients have been experiencing drops streaming multicast video while moving throughout the building. What is the cause of the drop in video?

- A. Clients are maintaining a 12Mbps rate and cannot receive the stream at 18Mbps.
- B. Clients are not roaming due to coverage. This is causing the multicast data to drop due to the client re-associating



often.

C. Clients are roaming at lower data rates and are not maintaining 36Mbps connectivity.

D. Clients are connected at 18Mbps; however, other clients are connecting at 12Mbps and are causing the multicast video to degrade.

Correct Answer: C

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