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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">WLAN Protocols and Devices: It focuses on terminology related to the 802.11 MAC and PHY, the purpose of the three main 802.11 frame types, MAC frame format, and 802.11 channel access methods.
Topic 2	<ul style="list-style-type: none">WLAN Network Security: It addresses the concepts of weak security options, security mechanisms for enterprise WLANs, and security options and tools used in wireless networks.
Topic 3	<ul style="list-style-type: none">WLAN Network Architecture and Design Concepts: This topic deals with describing and implementing Power over Ethernet (PoE). Furthermore, the topic covers different wireless LAN architectures, coverage requirements, roaming considerations, and common proprietary features in wireless networks.

Reliable CWNA-109 Exam Pdf - Sample CWNA-109 Questions

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q98-Q103):

NEW QUESTION # 98

You are deploying a WLAN with the access points configured for 10 mW of output power on the 2.4 GHz radios and 20 mW of output power on the 5GHz radios. Some semi-directional antennas are also in use. What kind of deployment is described?

- **A. SOHO**
- B. Standard office
- C. Residential
- D. High density

Answer: A

Explanation:

A high-density deployment is a wireless network that is designed to support a large number of users and devices in a relatively small area. This type of deployment is often used in enterprise environments, such as offices, schools, and hospitals.

The use of semi-directional antennas in the deployment described in the question is a good indication that it is a high-density deployment. Semi-directional antennas can be used to focus the signal from an access point in a specific direction. This can help to reduce interference and improve performance in high-density environments.

The other answer choices are less likely to be correct for the following reasons:

- * SOHO (small office/home office) deployments are typically smaller and less complex than high-density deployments.
- * Residential deployments are typically even smaller and less complex than SOHO deployments.
- * Standard office deployments may be high-density, but they may also be lower-density.

It is important to note that the type of deployment is not determined solely by the output power of the access points. However, the use of 10 mW of output power on the 2.4 GHz radios and 20 mW of output power on the 5GHz radios is also consistent with a high-density deployment.

Here are some additional tips for deploying a high-density wireless network:

- * Use a site survey to determine the optimal placement of access points.
- * Configure the access points to use non-overlapping channels.
- * Use semi-directional or directional antennas to focus the signal and reduce interference.
- * Implement a wireless intrusion prevention system (WIPS) to detect and mitigate rogue access points and other security threats.

NEW QUESTION # 99

What feature of 802.11ax (HE) may impact design decisions related to AP placement and the spacing between same-channel BSS cells (3SAs) because it is designed to reduce overlapping BSS contention?

- **A. BSS Color**
- B. 6 GHz band support
- C. TWT
- D. uplink MU-MIMO

Answer: A

Explanation:

In the 802.11ax (High Efficiency, HE) amendment, one of the key features introduced is BSS (Basic Service Set) Coloring. This

feature is designed to mitigate issues arising from overlapping BSSs (OBSS), which can lead to contention and interference in dense wireless environments. BSS Coloring works by:

- * Assigning a "color" (a small number) to each BSS: This helps devices differentiate between frames from their own BSS and those from neighboring BSSs.
 - * Reducing Inter-BSS Interference: Devices can ignore frames from different BSSs (with a different "color") under certain conditions, reducing the impact of OBSS interference.
 - * Improving Spatial Reuse: By distinguishing between transmissions from different BSSs, devices can make more informed decisions about when to transmit, improving the efficiency of spatial reuse and reducing unnecessary contention.
- This feature directly impacts design decisions related to AP placement and the spacing between same-channel BSS cells, as it allows for closer placement of APs on the same channel without significantly increasing interference, thus improving overall network capacity and efficiency.

The other options, while features of 802.11ax, do not directly pertain to reducing overlapping BSS contention in the same manner:

- * TWT (Target Wake Time) optimizes device sleep schedules to conserve power.
- * Uplink MU-MIMO enhances uplink data transmission capabilities but doesn't specifically address OBSS contention.
- * OBSS contention.
- * 6 GHz Band Support introduces new spectrum for Wi-Fi use but is not a feature aimed at reducing OBSS contention within the 802.11ax framework.

Therefore, the correct answer is B, BSS Color.

References:

- * IEEE 802.11ax-2021: Enhancements for High Efficiency WLAN.
- * CWNA Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109, by David D. Coleman and David A. Westcott.

NEW QUESTION # 100

You are troubleshooting a controller-based AP that is unable to locate the controller. DHCP is not used and the controller is located at 10.10.10.81/24 while the AP is on the 10.10.16.0/24 network. What should be inspected to verify proper configuration?

- **A. DNS**
- B. NTP
- C. BOOTP
- D. AP hosts file

Answer: A

Explanation:

What should be inspected to verify proper configuration is DNS. DNS stands for Domain Name System and is a service that resolves hostnames to IP addresses. In a controller-based AP deployment, DNS can be used to help the AP locate the controller by using a predefined hostname such as CISCO-CAPWAP-CONTROLLER or aruba-master. The AP sends a DNS query for this hostname and receives an IP address of the controller as a response. Therefore, if DNS is not configured properly or if there is no DNS entry for the controller hostname, the AP may not be able to locate the controller. NTP, BOOTP, and AP hosts file are not relevant for this scenario. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 374; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 364.

NEW QUESTION # 101

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from other WLANs
- B. Interference from non-Wi-Fi sources
- C. DoS attack
- **D. Faulty drivers**

Answer: D

Explanation:

The likely problem that causes this scenario is faulty drivers. Drivers are software components that enable the communication between the operating system and the hardware devices, such as the wireless adapters. Faulty drivers can cause various issues with

the wireless connectivity, such as not detecting or connecting to certain networks, dropping connections, or reducing performance. Faulty drivers can be caused by corrupted files, outdated versions, incompatible settings, or hardware defects. To fix faulty drivers, you can try to update, reinstall, or roll back the drivers, or contact the manufacturer for support. Interference from non-Wi-Fi sources, DoS attack, or interference from other WLANs are not likely to cause this scenario, as they would affect all devices in the same area, not just the new laptops. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 562; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 532.

NEW QUESTION # 102

The BSA of an AP covers the area used by the sales and marketing department. Thirty-five stations operate in this space. The users indicate that they need more throughput and all stations are 5 GHz capable 802.11ac clients. The current AP configuration uses 20 MHz channels in both 2.4 GHz and 5 GHz. What is the least expensive solution available for increasing throughput for these users without implementing configuration options that are not recommended?

- A. Use a 40 MHz channel on the 5 GHz radio
- B. Install a second AP in the coverage area
- C. Use a 40 MHz channel on the 2.4 GHz radio
- D. Use a 160 MHz channel on the 5 GHz radio

Answer: A

Explanation:

The least expensive solution available for increasing throughput for these users without implementing configuration options that are not recommended is to use a 40 MHz channel on the 5 GHz radio. This solution can double the channel bandwidth and increase the data rates for the 5 GHz capable 802.11ac clients. Using a 40 MHz channel on the 5 GHz radio is also less likely to cause co-channel interference or overlap with other channels than using a 40 MHz channel on the 2.4 GHz radio, which has only three non-overlapping channels. Using a 160 MHz channel on the 5 GHz radio may provide even higher throughput, but it may also consume too much of the available spectrum and cause more interference with other devices or networks. Installing a second AP in the coverage area may also improve the throughput, but it may require additional costs and configuration. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 216; [CWNA: Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 206.

NEW QUESTION # 103

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