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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 Regulations and Standards: The topic discusses the roles of WLAN and networking industry organizations. It also addresses the concepts of various Physical Layer (PHY) solutions, spread spectrum technologies, and 802.11 WLAN functional concepts.
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.
Topic 4	<ul style="list-style-type: none"> RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.
Topic 5	<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.

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q72-Q77):

NEW QUESTION # 72

When a client station sends a broadcast probe request frame with a wildcard SSID, how do APs respond?

- A. Each AP responds in turn after preparing a probe response and winning contention.
- B. After waiting a SIFS, all APs reply at the same time with a probe response.
- C. For each probe request frame, only one AP may reply with a probe response.
- D. Each AP checks with the DHCP server to see if it can respond and then acts accordingly.

Answer: A

Explanation:

In the 802.11 wireless networking protocols, when a client station sends a broadcast probe request frame with a wildcard SSID (Service Set Identifier), it is essentially asking for any nearby access points (APs) to identify themselves. The way APs respond to such a probe request is governed by standard 802.11 behavior, which includes:

* Probe Request Handling: Upon receiving a broadcast probe request, each AP that can serve the client prepares a probe response. The response includes information about the AP, such as its SSID, supported data rates, and other capabilities.

* Contention-Based Mechanism: Wireless networks use a contention-based mechanism (CSMA/CA - Carrier Sense Multiple Access with Collision Avoidance) for medium access. Each AP must wait for a clear channel and win the contention process before it can send its probe response.

* Independent Responses: Each AP operates independently in responding to the probe request. There is no coordination between APs to decide which one responds first or at all, leading to multiple APs sending probe responses, each after winning the contention for the medium.

Option A accurately reflects this process, indicating that each AP prepares and sends a probe response in turn, contingent upon winning the medium contention. The other options suggest mechanisms (such as coordination with a DHCP server or simultaneous responses after a Short Interframe Space (SIFS)) that do not align with standard 802.11 procedures for handling broadcast probe requests.

References:

- * IEEE 802.11 Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications.
- * CWNA Certified Wireless Network Administrator Official Study Guide: Exam PW0-105, by David D. Coleman and David A. Westcott.

NEW QUESTION # 73

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

Answer: D

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 # 74

You are troubleshooting a WLAN problem and you suspect hidden node as the cause. What should you look for in a protocol analyzer?

- **A. Retransmitted frames from multiple STAs with higher retry counts than other STAs Frames with the HN bit set to 1**
- B. Frames with the retry bit set to 0
- C. Frames transmitted from the AP without acknowledgement

Answer: A

Explanation:

The CWNA Official Study Guide (CWNA-109), Chapter 8: Troubleshooting and Spectrum Analysis, explains that hidden node problems occur when two or more client stations cannot hear each other but can both communicate with the same access point. This leads to collisions at the AP because the clients transmit simultaneously without sensing each other's signals.

"Hidden node problems can often be identified in a protocol analyzer by observing excessive retransmissions from specific client stations. These retransmissions occur because the station's frames are not acknowledged due to collisions caused by other stations that the transmitter cannot hear."

- CWNA-108 Study Guide, Chapter 8, Hidden Node Problem Analysis, p. 393-395 Therefore, when analyzing for a hidden node issue, you will typically observe:

* Retransmitted frames from multiple STAs.

* Higher retry counts for affected stations compared to others.

Hence, the correct answer is C. Retransmitted frames from multiple STAs with higher retry counts than other STAs.

NEW QUESTION # 75

What is appended to the end of each 802.11 data frame after the payload?

- A. PHY header

- B. FCS
- C. Preamble
- D. MAC header

Answer: B

Explanation:

The FCS (Frame Check Sequence) is appended to the end of each 802.11 data frame after the payload. The FCS is a 4-byte field that contains a CRC-32 (Cyclic Redundancy Check) value that is calculated based on the contents of the MAC header and the payload of the frame. The FCS is used by the receiver to verify the integrity of the frame and to detect any errors or corruption that may have occurred during transmission. If the FCS does not match with the expected value, the frame is discarded by the receiver.

References: , Chapter 4, page 139; , Section 4.2

NEW QUESTION # 76

In an 802.11 2.4 GHz system, what 22 MHz channels are considered non-overlapping?

- A. 1 and 5
- B. 7 and 11
- C. 2 and 8
- D. 4 and 6

Answer: A

Explanation:

In the 2.4 GHz frequency band used for 802.11 wireless networks, the channel bandwidth is typically 20 MHz, but the actual frequency spread of each channel is about 22 MHz due to the modulation techniques used. This spread causes overlap between adjacent channels, which can lead to interference and degrade network performance. To avoid this, it's essential to use non-overlapping channels.

The three non-overlapping channels in the 2.4 GHz band are 1, 6, and 11. Each of these channels is spaced sufficiently apart to avoid interference with each other:

* Channel 1: Centered at 2.412 GHz.

* Channel 6: Centered at 2.437 GHz.

* Channel 11: Centered at 2.462 GHz.

Given the options provided, option C (1 and 5) is the closest to a pair of non-overlapping channels, although in practice, channel 5 would still cause some interference with channel 1 due to the 22 MHz spread. The ideal choice for non-overlapping channels would be any two channels among 1, 6, and 11, but this is not an option provided. Therefore, within the given options, 1 and 5 are the best choice, understanding that in a real-world scenario, 1 and 6 or 6 and 11 would be preferred to avoid overlap.

References:

* CWNA Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109, by David D: Coleman and David A. Westcott.

* Understanding 2.4 GHz channel arrangement and interference patterns in 802.11 wireless networks.

NEW QUESTION # 77

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