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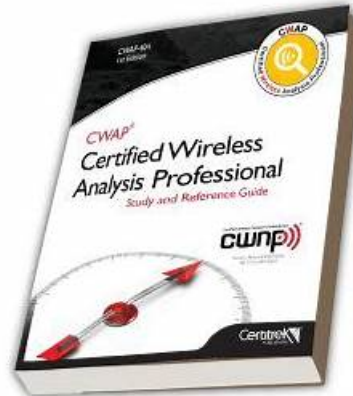

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CWNP CWAP-404 Exam Syllabus Topics:

Topic	Details
Topic 1	• MAC Sublayer and Functions: The topic measures the ability of a wireless network professional to understand and analyze the MAC layer operations. Candidates are expected to validate BSS configurations and identify issues like CRC errors and retransmissions, ensuring they can maintain the integrity and performance of the WLAN.
Topic 2	• Frame Exchanges: The topic evaluates the skills of a wireless network professional in capturing, understanding, and analyzing various frame exchanges, including BSS discovery, joining, roaming, and data frames. The CWAP-404 exam targets the ability of candidates to troubleshoot and resolve issues related to MAC layer operations, ensuring they can maintain robust and efficient WLAN communications.
Topic 3	• WLAN Medium Access: The exam evaluates the understanding of a wireless network professional about 802.11 contention algorithms and their impact on WLAN performance. The CWAP-404 exam requires candidates to analyze QoS configurations and operations.

Topic 4	• PHY Layers and Technologies: In the topic, the CWAP-404 exam tests the understanding of a wireless network professional about the Physical (PHY) layer functions and technologies. Wireless analysts need to describe and apply knowledge of PHY headers, PPDUs, and other PHY-related data. This topic ensures that analysts are proficient in interpreting PHY information within protocol analyzers and can select appropriate capture devices for different PHY types.
Topic 5	• Protocol Analysis: The topic in the CWNP CWAP-404 Exam evaluates the skill of a wireless network professional to capture and analyze 802.11 frames effectively. Candidates must demonstrate proficiency in configuring protocol analysis tools, interpreting frame captures to diagnose issues, and applying appropriate troubleshooting methods.

CWNP CWAP-404 Exam Certification Details:

Exam Price	$275 USD
Sample Questions	CWNP CWAP-404 Sample Questions
Exam Code	CWAP-404 CWAP
Recommended Training	CWAP self-paced training kit, Training Class
Exam Name	Wireless Analysis Professional
Exam Registration	PEARSON VUE

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CWNP Certified Wireless Analysis Professional Sample Questions (Q59-Q64):

NEW QUESTION # 59
As a wireless network consultant you have been called in to troubleshoot a high-priority issue for one of your customers. The customer's office is based on two floors within a multi-tenant office block. On one of these floors (floor 5) users cannot connect to the wireless network. During their own testing the customer has discovered that users can connect on floor 6 but not when they move to the floor 5. This issue is affecting all users on floor 5 and having a negative effect on productivity. To troubleshoot this issue, you perform both Spectrum and Protocol Analysis. The Spectrum Analysis shows the presence of Bluetooth signals which you have identified as coming from wireless mice. In the protocol analyzer you see the top frame on the network is Deauthentication frames. On closer investigation you see that the Deauthentication frames' source addresses match the BSSISs of your customers APs and the destination address is FF:FF:FF:FF:FF:FF:FF. What do you conclude from this troubleshooting exercise?

- A. The users on floor 5 are being subjected to a denial of service attack, as this is happening across the entire floor it is likely to be a misconfigured WIPS solution belonging to the tenants on the floor below
- B. The customer should replace all their Bluetooth wireless mice as they are stopping the users on floor 5 from connecting to the wireless network
- C. The customers APs are misbehaving and a technical support case should be open with the vendor
- D. The CCI from the APs on the floor 4 is the problem and you need to ask the tenant below to turn down their AP's Tx power

Answer: A

Explanation:

The users on floor 5 are being subjected to a denial of service attack, as this is happening across the entire floor it is likely to be a misconfigured WIPS solution belonging to the tenants on the floor below. This is because the Deauthentication frames have a source address that matches the BSSIDs of the customer's APs and a destination address that is a broadcast address (FF:FF:FF:FF:FF:FF). This indicates that someone is sending spoofed Deauthentication frames to all STAs associated with the customer's APs, causing them to disconnect from the wireless network. This is a common type of DoS attack on wireless networks, and it could be caused by a rogue device or a WIPS solution that is configured to protect the wireless network of another tenant on the floor below.

NEW QUESTION # 60

Which information elements (IE) are contained in an IEEE 802.11 Probe Request frame?
(Choose 2)

- A. Supported rates
- B. Association ID
- C. SSID
- D. Status code
- E. RSN IE

Answer: A,C

NEW QUESTION # 61

What is the default 802.11 authentication method for a STA when using Pre-RSNA?

- A. Open System
- B. Shared Key
- C. 4-Way Handshake
- D. PSK

Answer: A

Explanation:
The default 802.11 authentication method for a STA when using Pre-RSNA is Open System. This is the simplest and most common authentication method, which does not provide any security or encryption. In Open System authentication, the STA sends an Authentication Request frame to the AP, and the AP responds with an Authentication Response frame with a status code of success. After this, the STA can proceed to association with the AP.

NEW QUESTION # 62

Which one of the following portions of information is communicated by bits in the PHY Header?

- A. Signal strength
- B. SNR
- C. Noise
- D. Data rate

Answer: D

Explanation:
Explanation
One of the information that is communicated by bits in the PHY header is data rate. Data rate is the speed at which data is transmitted or received over the wireless medium. Data rate depends on factors such as modulation, coding, channel width, spatial streams, and guard interval. Data rate is indicated by bits in different fields of the PHY header, depending on the type of PPDU (e.g., OFDM, HT, VHT, HE). The receiver uses these bits to determine how to decode and demodulate the rest of the PPDU. The other options are not correct, as they are not communicated by bits in the PHY header. SNR (Signal-to-Noise Ratio), noise, and signal strength are measured by the receiver based on its own capabilities and environment. References: [Wireless Analysis Professional Study Guide CWAP-404], Chapter 4: 802.11 Physical Layer, page 101-105

NEW QUESTION # 63

Given a protocol analyzer can decrypt WPA2-PSK data packets providing the PSK and SSID are configured in the analyzer software. When performing packet capture (in a non-FT environment) which frames are required in order for PSK frame decryption to be possible?

- A. 4-Way Handshake
- B. Reassociation
- C. Authentication
- D. Probe Response

Answer: A

Explanation:
Explanation
The 4-way handshake is the process that establishes the pairwise transient key (PTK) between the client and the AP in WPA2-PSK. The PTK is derived from the PSK, the SSID, and some random numbers exchanged in the handshake frames. The PTK is used to encrypt and decrypt the data frames between the client and the AP. Therefore, in order to decrypt WPA2-PSK data packets, a protocol analyzer needs to capture the 4-way handshake frames and have the PSK and SSID configured in the analyzer software12 References:
CWAP-404 Study Guide, Chapter 3: 802.11 MAC Layer Frame Formats and Technologies, page 87 CWAP-404 Objectives, Section 3.5: Analyze security exchanges

NEW QUESTION # 64

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