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CWNP CWAP-404 Exam Topics:

Section	Objectives
Protocol Analysis - 15%	
Capture 802.11 frames using the appropriate methods	<ul style="list-style-type: none"> - Select capture devices <ul style="list-style-type: none"> • Laptop protocol analyzers • APs, controllers, and other management solutions • Specialty devices (hand-held analyzers and custom-built devices) - Install monitor mode drivers - Select capture location(s) - Capture sufficient data for analysis - Capture all channels or capture on a single channel as needed - Capture roaming events
Understand and apply the common capture configuration parameters available in protocol analysis tools	<ul style="list-style-type: none"> - Save to disk - Packet slicing - Event triggers - Buffer options - Channels and channel widths - Capture filters - Channel scanning and dwell time

Analyze 802.11 frame captures to discover problems and find solutions	<ul style="list-style-type: none"> - Use appropriate display filters to view relevant frames and packets - Use colorization to highlight important frames and packets - Configure and display columns for analysis purposes - View frame and packet decodes while understanding the information shown and applying it to the analysis process - Use multiple adapters and channel aggregation to view captures from multiple channels - Implement protocol analyzer decryption procedures - View and use a capture's statistical information for analysis - Use expert mode for analysis - View and understand peer maps as they relate to communications analysis
Utilize additional tools that capture 802.11 frames for analysis and troubleshooting	<ul style="list-style-type: none"> - WLAN scanners and discovery tools - Protocol capture visualization and analysis tools - Centralized monitoring, alerting, and forensic tools
Ensure appropriate troubleshooting methods are used with all analysis types	<ul style="list-style-type: none"> - Define the problem - Determine the scale of the problem - Identify probable causes - Capture and analyze the data - Observe the problem - Choose appropriate remediation steps - Document the problem and resolution
Spectrum Analysis - 10%	
Capture RF spectrum data and understand the common views available in spectrum analyzers	<ul style="list-style-type: none"> - Install, configure, and use spectrum analysis software and hardware - Capture RF spectrum data using handheld, laptop-based, and infrastructure spectrum capture solutions - Understand and use spectrum analyzer views <ul style="list-style-type: none"> • Real-time FFT • Waterfall, swept spectrogram, density, and historic views • Utilization and duty cycle • Detected devices • WLAN integration views
Analyze spectrum captures to identify relevant RF information and issues	<ul style="list-style-type: none"> - RF noise floor in an environment - Signal-to-Noise Ratio (SNR) for a given signal - Sources of RF interference and their locations - RF channel utilization - Non-Wi-Fi transmitters and their impact on WLAN communications - Overlapping and non-overlapping adjacent channel interference - Poor performing or faulty radios

Analyze spectrum captures to identify various device signatures	<ul style="list-style-type: none"> - Identify various 802.11 PHYs <ul style="list-style-type: none"> • DSSS • OFDM • OFDMA • Channel widths • Primary channel - Identify non-802.11 devices based on RF behaviors and signatures <ul style="list-style-type: none"> • Frequency hopping devices • IoT devices • Microwave ovens • Video devices • RF Jammers • Cordless phones
Use centralized spectrum analysis solutions	<ul style="list-style-type: none"> - AP-based spectrum analysis - Sensor-based spectrum analysis
PHY Layers and Technologies - 10%	
Understand and describe the functions of the PHY layer and the PHY protocol data units (PPDUs)	<ul style="list-style-type: none"> - DSSS (Direct Sequence Spread Spectrum) - HR/DSSS (High Rate/Direct Sequence Spread Spectrum) - OFDM (Orthogonal Frequency Division Multiplexing) - ERP (Extended Rate PHY) - HT (High Throughput) - VHT (Very High Throughput) - HE (High Efficiency) <ul style="list-style-type: none"> • HE SU PPDU • HE MU PPDU • HE ER SU PPDU • HE TB PPDU • HE NULL data packets
Apply the understanding of PHY technologies, including PHY headers, preambles, training fields, frame aggregation, and data rates, to captured data	
Identify and use PHY information provided within pseudo-headers in protocol analyzers	<ul style="list-style-type: none"> - Pseudo-Header formats <ul style="list-style-type: none"> • Radiotap • Per Packet Information (PPI) - Key pseudo-header content <ul style="list-style-type: none"> • Guard intervals • Resource units allocation • PPDU formats • Signal strength • Noise • Data rate and MCS index • Length information • Channel center frequency or received channel • Channel properties
Recognize the limits of protocol analyzers to capture PHY information including NULL data packets and PHY headers	

Use appropriate capture devices based on proper understanding of PHY types	<ul style="list-style-type: none"> - Supported PHYs - Supported spatial streams
MAC Sublayer and Functions - 25%	
Understand frame encapsulation and frame aggregation	<ul style="list-style-type: none"> - Frame aggregation (A-MSDU and A-MPDU)
Identify and use MAC information in captured data for analysis	<ul style="list-style-type: none"> - Management, Control, and Data frames - MAC frame formats and contents <ul style="list-style-type: none"> • Frame Control field • To DS and From DS fields • Address fields • Frame Check Sequence (FCS) field - 802.11 Management frame formats <ul style="list-style-type: none"> • Information Elements • Authentication • Association and Reassociation • Beacon • Probe Request and Probe Response - Data and QoS Data frame formats - 802.11 Control frame formats <ul style="list-style-type: none"> • Acknowledgement (ACK) • Request to Send/Clear to Send (RTS/CTS) • Block Acknowledgement and related frames • Trigger frames • VHT/HE NDP announcements • Multiuser RTS
Validate BSS configuration through protocol analysis	<ul style="list-style-type: none"> - Country code - Minimum basic rate - Supported rates and coding schemes - Beacon interval - WMM settings - RSN settings - HT/VHT/HE operations - Channel width - Primary channel - Hidden or non-broadcast SSIDs
Identify and analyze CRC error frames and retransmitted frames	
WLAN Medium Access - 10%	

Understand 802.11 contention algorithms in-depth and know how they impact WLANs	<ul style="list-style-type: none"> - Distributed Coordination Function (DCF) <ul style="list-style-type: none"> • Carrier Sense (CS) and Energy Detect (ED) • Network Allocation Vector (NAV) • Contention Windows (CW) and random backoff • Interframe spacing - Enhanced Distributed Channel Access (EDCA) <ul style="list-style-type: none"> • EDCA Function (EDCAF) • Access Categories and Queues • Arbitration Interframe Space Number (AIFSN) - Wi-Fi Multimedia (WMM) <ul style="list-style-type: none"> • WMM parameters • WMM-Power Save • WMM-Admission Control
Analyze QoS configuration and operations	<ul style="list-style-type: none"> - Verify QoS parameters in capture files - Ensure QoS is implemented end-to-end
802.11 Frame Exchanges - 30%	

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CWNP CWAP-404 Exam Sample Online - CWAP-404 Latest Test Question

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CWNP Certified Wireless Analysis Professional Sample Questions (Q10-Q15):

NEW QUESTION # 10

Which one of the statements regarding the Frame Control field in an 802.11 MAC header is true?

- A. The Frame Control field is always set to 0
- B. The Frame Control field is used to communicate the duration value
- **C. The Frame Control field contains three sub-fields and eight one-bit flags**
- D. Only Control frames have a Frame Control field

Answer: C

Explanation:

Explanation: The Frame Control field in the 802.11 MAC header contains several sub-fields that define control information about the frame, including the type of frame, whether the frame is fragmented, and other parameters. Specifically, the Frame Control field has two main parts:

The sub-fields include Protocol Version, Type, Subtype, etc.

It also contains eight one-bit flags such as To DS, From DS, More Fragments, Retry, Power Management, etc.

NEW QUESTION # 11

In what scenario is Open Authentication without encryption not allowed based on the 802.11 standard?

- A. When operating a BSS in a government facility
- B. When operating a BSS in FIPS mode
- **C. When operating a BSS in the 6 GHz band**
- D. When operating a BSS in the CBRS band

Answer: C

Explanation:

Open Authentication without encryption is not allowed when operating a BSS in the 6 GHz band, according to the 802.11 standard. Open Authentication is a type of authentication method that does not require any credentials or security information from a STA (station) to join a BSS (Basic Service Set). Open Authentication can be used with or without encryption, depending on the configuration of the BSS and the STA. Encryption is a technique that scrambles the data frames using an algorithm and a key to prevent unauthorized access or eavesdropping. However, in the 6 GHz band, which is a newly available frequency band for WLANs, Open Authentication without encryption is prohibited by the 802.11 standard, as it poses security and interference risks for other users and services in the band. The 6 GHz band requires all WLANs to use WPA3- Personal or WPA3-Enterprise encryption methods, which are more secure and robust than previous encryption methods such as WPA2 or WEP. The other options are not correct, as they do not describe scenarios where Open Authentication without encryption is not allowed by the 802.11 standard. When operating a BSS in the CBRS band, which is another newly available frequency band for WLANs, Open Authentication without encryption is allowed, but not recommended, as it also poses security and interference risks for other users and services in the band. When operating a BSS in FIPS mode, which is a mode that complies with the Federal Information Processing Standards for cryptographic security, Open Authentication without encryption is allowed, but not compliant, as it does not meet the FIPS requirements for encryption algorithms and keys. When operating a BSS in a government facility, Open Authentication without encryption is allowed, but not advisable, as it may violate the government policies or regulations for wireless security.

NEW QUESTION # 12

During a VHT Transmit Beamforming sounding exchange, the beamformee transmits a Compressed Beamforming frame to the beamformer. What is communicated within this Compressed Beamforming frame?

- A. Beamformee Matrix
- B. Beamforming Matrix
- C. Steering Matrix
- **D. Feedback Matrix**

Answer: D

Explanation:

Explanation

The beamformee transmits a Feedback Matrix within the Compressed Beamforming frame to the beamformer.

The Feedback Matrix contains information about the channel state between the beamformee and each spatial stream of the beamformer. This information is used by the beamformer to adjust its transmit weights and optimize its signal for the beamformee³⁴. References: CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 11: 802.11n/ac/ax PHYsical Layer Frame Exchanges, page 4033; CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 11: 802.11n/ac/ax PHYsical Layer Frame Exchanges, page 4064.

NEW QUESTION # 13

According to 802.11-2007, in what frame type(s) might you find the PMK Count and PMKID List fields?

- A. Authentication and Association Request and Response frames
- **B. Only (Re)Association Request frames**
- C. EAPoL 4-Way Handshake frames
- D. All frames that include the RSN IE
- E. Beacon and Probe Response frames

Answer: B

NEW QUESTION # 14

Which parameters accurately describe the Beacon Interval field in the Beacon frame? (Choose 2)

- A. **Measured in time units of 1024 μ s**
- B. Indicates the exact time interval between Beacon transmissions
- C. **Indicates the desired time interval between TBTTs**
- D. 4-octet length
- E. Value can range from 0 to 2007

Answer: A,C

NEW QUESTION # 15

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