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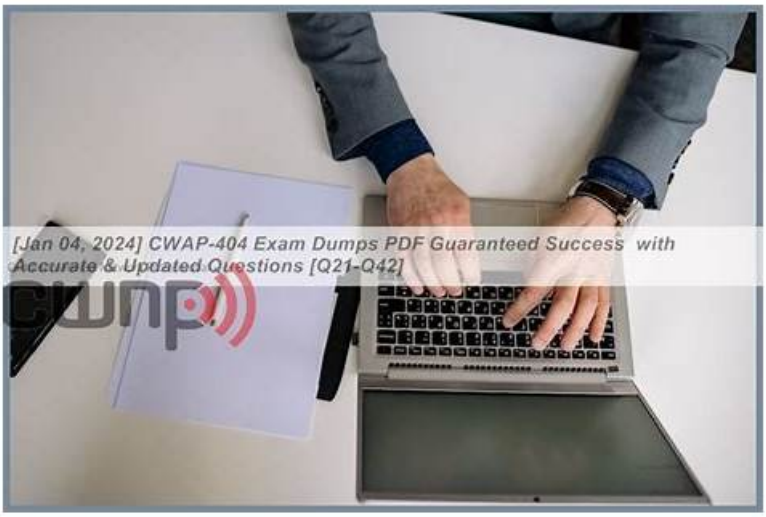

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CWNP CWAP-404 Exam Topics:

Section	Objectives
Protocol Analysis - 15%	
Capture 802.11 frames using the appropriate methods	- Select capture devices • 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	- 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	- 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	- 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	- 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	- 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 • 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	- 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	- Identify various 802.11 PHYs • DSSS • OFDM • OFDMA • Channel widths • Primary channel - Identify non-802.11 devices based on RF behaviors and signatures • Frequency hopping devices • IoT devices • Microwave ovens • Video devices • RF Jammers • Cordless phones
Use centralized spectrum analysis solutions	- 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)	- 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) • 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	- Pseudo-Header formats • Radiotap • Per Packet Information (PPI) - Key pseudo-header content • 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	- Supported PHYs - Supported spatial streams
MAC Sublayer and Functions - 25%	
Understand frame encapsulation and frame aggregation	- Frame aggregation (A-MSDU and A-MPDU)
Identify and use MAC information in captured data for analysis	- Management, Control, and Data frames - MAC frame formats and contents • Frame Control field • To DS and From DS fields • Address fields • Frame Check Sequence (FCS) field - 802.11 Management frame formats • Information Elements • Authentication • Association and Reassociation • Beacon • Prove Request and Probe Response - Data and QoS Data frame formats - 802.11 Control frame formats • 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	- 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	- Distributed Coordination Function (DCF) • Carrier Sense (CS) and Energy Detect (ED) • Network Allocation Vector (NAV) • Contention Windows (CW) and random backoff • Interframe spacing - Enhanced Distributed Channel Access (EDCA) • EDCA Function (EDCAF) • Access Categories and Queues • Arbitration Interframe Space Number (AIFSN) - Wi-Fi Multimedia (WMM) • WMM parameters • WMM-Power Save • WMM-Admission Control
Analyze QoS configuration and operations	- Verify QoS parameters in capture files - Ensure QoS is implemented end-to-end
802.11 Frame Exchanges - 30%	
Capture, understand, and analyze BSS discovery and joining frame exchanges	- BSS discovery - 802.11 Authentication and Association - 802.1X/EAP exchanges - Pre-Shared Key authentication - Four-way handshake - Group key exchange - Simultaneous Authentication of Equals (SAE) - Opportunistic Wireless Encryption (OWE) - WPA2 and WPA3 - Fast secure roaming mechanisms • Fast BSS Transition (FT) roaming exchanges • Pre-FT roaming exchanges - Neighbor discovery (802.11k/v) - Hotspot 2.0 protocols and operations from the client access perspective • ANQP • Initial access

CWNP CWAP-404 Exam Certification Details:

Sample Questions	CWNP CWAP-404 Sample Questions
Recommended Training	CWAP self-paced training kit, Training Class
Duration	90 minutes
Exam Name	Wireless Analysis Professional

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CWNP Certified Wireless Analysis Professional Sample Questions (Q171-Q176):

NEW QUESTION # 171
Where, in a protocol analyzer, would you find an indication that a frame was transmitted as part of an A-MPDU?

- A. The HT Operation Element
- B. The Aggregation flag in the Radio Tap Header
- C. A-MPDU flag in the QoS Control Field
- D. A-MPDU flag in the Frame Control Field

Answer: B

Explanation:
Explanation
In a protocol analyzer, you would find an indication that a frame was transmitted as part of an A-MPDU by looking at the Aggregation flag in the Radio Tap Header. The Radio Tap Header is a pseudo-header that is added by some wireless capture devices to provide additional information about the physical layer characteristics of a frame. The Aggregation flag is one of the fields in this header, and it indicates whether the frame belongs to an A-MPDU or not. If the flag is set to 1, it means that the frame is part of an A-MPDU; if it is set to 0, it means that the frame is not part of an A-MPDU . References: CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 9: PHY Layer Frame Formats andTechnologies, page 303; CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 9: PHY Layer Frame Formats and Technologies, page 304.

NEW QUESTION # 172
What is the function of the PHY layer?

- A. Convert PPDUs to PSDUs for transmissions and PSDUs to PPDUs for receptions
- B. Convert MSDUs to PPDUs for transmissions and PPDUs to MSDUs for receptions
- C. Convert PPDUs to MSDUs for transmissions and MSDUs to PPDUs for receptions
- D. Convert PSDUs to PPDUs for transmissions and PPDUs to PSDUs for receptions

Answer: D

Explanation:
The function of the PHY layer is to convert PSDUs to PPDUs for transmissions and PPDUs to PSDUs for receptions. A PSDU (PHY Service Data Unit) is the data unit that is passed from the MAC layer to the PHY layer for transmission, or from the PHY layer to the MAC layer for reception. A PPDU (PHY Protocol Data Unit) is the data unit that is transmitted or received over the wireless medium by the PHY layer. A PPDU consists of a PSDU and a PHY header, which contains information such as modulation, coding, and data rate. The PHY layer adds or removes the PHY header to or from the PSDU during the conversion process.

NEW QUESTION # 173
You have captured 802.11 traffic using an adapter that includes the radio tap header. You see several frames often called announcement frames in the capture.
What best describes these types of frames?

- A. They only include beacon and probe response frames
- B. They are used to allow a STA to awake from sleep and for no other reason
- C. They only include beacon and probe request frames
- D. They are meant to provide information to the network that may result in state changes, but they are not open for rejection

Answer: A

NEW QUESTION # 174
Given: Protocol analyzer often have useful graphical dashboards providing information about the health and operations of the WLAN.
What is a valid use of a graph showing the Top APs Based on Active Associations?

- A. Discovering the total number of client STAs on your network
- B. Evaluating the capacity handling on a specific channel
- C. Locating overloaded APs
- D. Ensuring compliance with corporate security policies

Answer: C

NEW QUESTION # 175
ABC International has installed a new smart ZigBee controlled lighting system. However, the network team is concerned that this new system will interfere with the existing WLAN and has asked you to investigate the impact of the two systems operating simultaneously in the 2.4 GHz band. When performing Spectrum Analysis, which question could you answer by looking at the FFT plot?

- A. Is the WLAN corrupting ZigBee system messages?
- B. Is the ZigBee system using more than 50% of the available airtime?
- C. Is the ZigBee system causing an increase in WLAN retries?
- D. Do the ZigBee channels used by the lighting system overlap with the WLAN channels?

Answer: D

Explanation:
Explanation
The FFT plot is a spectrum analysis plot that shows the RF power present at a particular frequency over a short period of time. It can help identify the sources and characteristics of RF signals in the spectrum. By looking at the FFT plot, you can determine which ZigBee channels are used by the lighting system and whether they overlap with the WLAN channels in the 2.4 GHz band. ZigBee channels are 5 MHz wide and WLAN channels are 20 MHz or 40 MHz wide, so there is a possibility of overlap and interference between them. The other questions cannot be answered by looking at the FFT plot alone, as they require other types of plots or analysis tools, such as duty cycle plot, airtime utilization plot, or protocol analyzer. References: [Wireless Analysis Professional Study Guide], Chapter 3: Spectrum Analysis, page 69-70

NEW QUESTION # 176
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