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CWNP CWAP-404 Exam Topics:

| Section | Objectives |
|--------------------------------|------------|
| Protocol Analysis - 15% | |
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| 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% | |

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| 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 |

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|---|---|
| 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 |

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|--|--|
| 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 | |

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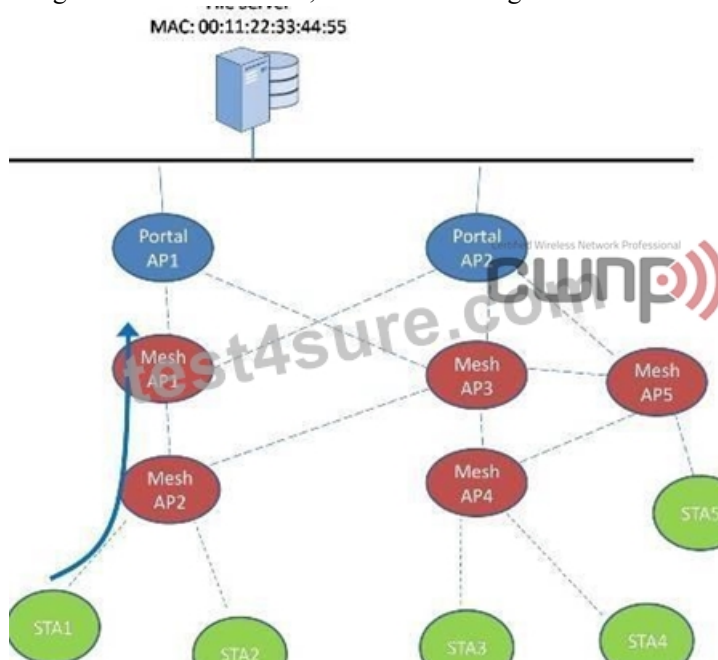
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CWNP Certified Wireless Analysis Professional Sample Questions (Q148-Q153):

NEW QUESTION # 148

Using the exhibit as a reference, answer the following.



STA1 sent a data frame to Mesh AP2 destined for a local file server on the same subnet with MAC address 00:11:22:33:44:55. Mesh AP2's mesh forwarding algorithm determined that the frame should be forwarded through Mesh AP1. In the frame sent from Mesh AP2 to Mesh AP1, what is true of the contents of the MAC header? (Choose 3)

- A. RA = Mesh AP1's MAC Address
- B. DA = 00:11:22:33:44:55
- C. To DS = 0
- D. TA = STA1's MAC Address
- E. SA = Mesh AP2's MAC Address
- F. FromDS = 1

Answer: A,B,F

NEW QUESTION # 149

Finish the statement. It is possible to distinguish between _____ and _____ 20 MHz transmissions when looking at an FFT plot.

- **A. OFDM and HT**
- B. ERP and VHT
- C. HR/DSSS and ERP
- D. HT and VHT

Answer: A

Explanation:

It is possible to distinguish between OFDM 20 MHz transmissions and HT 20 MHz transmissions when looking at an FFT plot.

OFDM and HT are two different modulation schemes used by

802.11 WLANs. OFDM is used by legacy 802.11a/g devices, while HT is used by newer

802.11n/ac devices. OFDM and HT have different spectral characteristics that can be observed on an FFT plot. OFDM

transmissions have a flat spectrum with sharp edges, while HT transmissions have a tapered spectrum with rounded edges. This is

because HT uses guard intervals and cyclic prefixes to reduce inter-symbol interference and improve performance. The other

options are not correct, as they do not describe different modulation schemes or channel widths that can be distinguished on an FFT plot.

NEW QUESTION # 150

Which one of the following is not a valid acknowledgement frame?

- A. Block Ack
- B. CTS
- **C. RTS**
- D. Ack

Answer: C

Explanation:

Explanation

RTS is not a valid acknowledgement frame. RTS stands for Request To Send, and it is a control frame that is used to initiate an RTS/CTS exchange before sending a data frame. The purpose of an RTS/CTS exchange is to reserve the medium for a data transmission and avoid collisions with hidden nodes. An acknowledgement frame is a control frame that is used to confirm the successful reception of a data frame or a block of data frames. The valid acknowledgement frames are CTS (Clear To Send), Ack (Acknowledgement), and Block Ack (Block Acknowledgement). References: CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 6: MAC Sublayer Frame Exchanges, page 186; CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 6: MAC Sublayer Frame Exchanges, page 187; CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 6: MAC Sublayer Frame Exchanges, page 189; CWAP-404 Certified Wireless Analysis Professional Study and Reference Guide, Chapter 6: MAC Sublayer Frame Exchanges, page 190.

NEW QUESTION # 151

Given: Your network consists of HT and ERP access points, and you are implementing VoWiFi with support for U-APSD.

When an ERP handset operating in WMM Power Save mode with a ReceivedDTIMs parameter of TRUE receives a Beacon containing a DTIM indicating queued broadcast traffic, what task is the handset required to perform?

- A. The handset must arbitrate for the medium and immediately issue an RTS directed to the access point with the NAV set to a value of 32,768.
- B. The handset must broadcast a CTS-to-Self frame indicating the station's need to control the medium long enough to receive all of the broadcast frames.
- **C. The handset is to remain awake to receive the broadcast frame(s) following the Beacon that contains the DTIM.**
- D. The handset must send a PS-Poll frame to the access point for every broadcast frame it receives with the More Data bit set to one.

Answer: C

NEW QUESTION # 152

You have implemented an AP at a remote office. It is a single-band AP supporting 802.11ac.

Several users complain that their laptops cannot connect to the WLAN. These laptops are from multiple vendors and range in age from 2 to 4 years. The SSID and security profile settings are correct. All default settings were used on the AP with the exception of the SSID and security settings. What is the most likely issue preventing these STAs from connecting to the AP?

- A. They are 2.4 GHz-only devices
- B. They do not support VHT and only support OFDM
- C. They are 5 GHz-only devices
- D. They do not support the basic data rates

Answer: C

NEW QUESTION # 153

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