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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">Radio Frequency (RF) Technologies: This topic explains the basic features and behavior of RF. It also discusses applying the basic concepts of RF mathematics and measurement. Lastly, the topic covers RF signal characteristics and the functionality of RF antennas.
Topic 3	<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.

- 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.

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CWNA-109 Training Materials: CWNP Wireless Network Administrator (CWNA) & CWNA-109 Exam Preparatory

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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q12-Q17):

NEW QUESTION # 12

You are troubleshooting a problem with interference from a non-802.11 device. Given that the device is not a WLAN device, you cannot use a protocol analyzer and have chosen to use a spectrum analyzer. You want to view the signal from the interfering device over time to see the activity that is generating.

What common spectrum analyzer view should you use for this analysis?

- A. Waterfall/Spectrogram
- B. Real-time FFT
- C. APs
- D. Clients

Answer: A

Explanation:

The common spectrum analyzer view that you should use for this analysis is the Waterfall/Spectrogram view.

The Waterfall/Spectrogram view shows the signal from the interfering device over time on a three-dimensional graph. The x-axis represents frequency, the y-axis represents time, and the z-axis represents amplitude or power. The color of each pixel indicates the signal strength at a given frequency and time. The Waterfall/Spectrogram view can help you identify the characteristics of the interference source, such as its frequency range, duty cycle, modulation type, and pattern. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 524; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 494.

NEW QUESTION # 13

What ID is typically mapped to an AP's MAC address if a single BSS is implemented?

- A. Device ID
- B. SSID
- C. BSSID
- D. VLAN ID

Answer: C

Explanation:

The BSSID (Basic Service Set Identifier) is typically mapped to an AP's MAC address if a single BSS is implemented. The BSSID is a unique identifier that distinguishes one BSS from another within the same RF medium. It is usually derived from the MAC address of the AP's radio interface, but it can also be manually configured or randomly generated by some vendors. The BSSID is used by client stations to associate with an AP and to send and receive frames within a BSS. References: , Chapter 1, page 24; , Section 1.2

NEW QUESTION # 14

When a STA has authenticated to an AP (AP-1), but still maintains a connection with another AP (AP-2), what is the state of the STA on AP-1?

- A. Authenticated and Unassociated
- B. Unauthenticated and Unassociated
- C. Authenticated and Associated
- D. Transitional

Answer: A

Explanation:

Authenticated and Unassociated. According to one of the web search results¹, a STA can be authenticated to multiple APs, but it can only be associated to one AP at a time. Association is the process of establishing a logical link between the STA and the AP, which allows the STA to send and receive data frames through the AP². Therefore, when a STA has authenticated to an AP-1, but still maintains a connection with another AP-2, it means that the STA is authenticated to both APs, but only associated to AP-2. The state of the STA on AP-1 is authenticated and unassociated, which means that the STA can switch to AP-1 without repeating the authentication process, but it cannot send or receive data frames through AP-1 until it becomes associated.

NEW QUESTION # 15

You are configuring an access point to use channel 128. What important fact should be considered about this channel?

- A. It is a 2.4 GHz frequency band 40 MHz channel, so it should not be used
- B. It is a 22 MHz channel so it will overlap with the channels above and below it
- C. It is a channel that may require DFS when used
- D. It is a channel that is unsupported by all access points in all regulatory domains

Answer: C

Explanation:

It is a channel that may require DFS when used is an important fact that should be considered about channel 128. Channel 128 is a 5 GHz frequency band 20 MHz channel that has a center frequency of 5.64 GHz.

Channel 128 is one of the channels that are subject to DFS (Dynamic Frequency Selection) rules, which require Wi-Fi devices to monitor and avoid using channels that are occupied by radar systems or other primary users. DFS is a feature that is defined in the IEEE 802.11h amendment and is mandated by some regulatory bodies, such as the FCC and the ETSI, to protect the licensed users of the 5 GHz band from interference by unlicensed Wi-Fi devices. DFS works by using a mechanism called channel availability check (CAC), which requires Wi-Fi devices to scan a channel for a certain period of time before using it. If a radar signal is detected during the CAC or while using the channel, the Wi-Fi devices must switch to another channel that is free from radar interference.

When configuring an access point to use channel 128, it is important to consider the implications of DFS rules, such as:

- * The access point must support DFS and comply with the local regulations and standards that apply to DFS channels.
- * The access point may experience delays or interruptions in its operation due to CAC or channel switching.
- * The access point may have limited channel selection or availability due to radar interference or other Wi-Fi devices using DFS channels.
- * The access point may have compatibility or interoperability issues with some client devices that do not support DFS or use different DFS parameters.
- * The access point may have performance or quality issues due to co-channel or adjacent-channel interference from other Wi-Fi devices using non-DFS channels.

Therefore, it is advisable to use channel 128 only when necessary and after performing a thorough site survey and spectrum analysis to determine the best channel for the access point. References: 1, Chapter 3, page 117; 2, Section 3.2

NEW QUESTION # 16

You are using a site survey tool for post-implementation validation. You have installed the appropriate adapter driver and imported a floor plan. Now, you want to take the next step in proper tool use. What must you do before gathering survey data after the floor plan is imported?

- A. Install WinPCAP
- B. Install iPerf

- C. Nothing, you can simply start capturing signal readings
- **D. Calibrate the floor plan**

Answer: D

Explanation:

Calibrating the floor plan is what you must do before gathering survey data after the floor plan is imported when using a site survey tool for post-implementation validation. A site survey tool is a software application that can run on a laptop, tablet, smartphone, or other device that has a Wi-Fi adapter and a GPS receiver. A site survey tool can scan the wireless environment and collect information about the detected access points and client stations, such as their SSID, BSSID, channel, signal strength, security, and data rate. A site survey tool can also measure and display various metrics of network performance, such as throughput, jitter, packet loss, delay, and SNR. A site survey tool can also use a floor plan to visualize the wireless coverage and quality in different locations on a map. A floor plan is an image file that shows the layout and dimensions of a building or an area where the WLAN is deployed. A floor plan can be imported from various sources, such as a CAD file, a PDF file, an image file, or a Google Maps screenshot. After importing a floor plan into a site survey tool, it is necessary to calibrate the floor plan before gathering survey data. Calibrating the floor plan means adjusting the scale and orientation of the floor plan to match the actual size and direction of the area. Calibrating the floor plan can be done by using a reference point or a reference line that has a known distance or angle in the real world. Calibrating the floor plan ensures that the survey data is accurate and consistent with the physical environment. References: 1, Chapter 7, page 290; 2, Section 4.3

NEW QUESTION # 17

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