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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> WLAN Network Security: It addresses the concepts of weak security options, security mechanisms for enterprise WLANs, and security options and tools used in wireless networks.
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"> 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 4	<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.

CWNP Wireless Network Administrator (CWNA) Sample Questions (Q47-Q52):

NEW QUESTION # 47

What terms accurately complete the following sentence?

The IEEE 802.11-2016 standard specifies mandatory support of the _____ cipher suite for Robust Security Network Associations, and optional use of the _____ cipher suite, which is designed for use with pre-RSNA hardware and is deprecated.

- A. CCMP, TKIP
- B. RC5, RC4
- C. TLS, SSL
- D. 802.1X/EAP, WEP

Answer: A

NEW QUESTION # 48

You are troubleshooting a client issue on a Windows laptop. The laptop can see and connect to 2.4 GHz APs, but does not even see 5 GHz APs. While evaluating the issue, you determine that this problem is happening for all of the laptops of this model in the organization. Several other tablets connect on channel 48 and channel 52 in the same work areas. What is the likely problem?

- A. The antennas in the laptop have insufficient gain to detect the 5 GHz signals.
- B. The client drivers are faulty and should be upgraded.**
- C. The access points are configured to disallow 5 GHz.
- D. The clients are configured to use WPA and 5 GHz channels only support WPA2.

Answer: B

Explanation:

The client drivers are faulty and should be upgraded is the likely problem for the laptop that can see and connect to 2.4 GHz APs, but does not even see 5 GHz APs. The client drivers are the software components that enable the wireless adapter of the laptop to communicate with the operating system and the network. The client drivers are responsible for scanning the available wireless channels, detecting and connecting to the access points, negotiating the security and data rate parameters, and transmitting and

receiving data frames. If the client drivers are faulty, outdated, or incompatible, they may cause various issues with the wireless performance and functionality, such as low data rates, poor signal strength, frequent disconnections, or inability to see or connect to certain access points or channels.

One of the possible causes of faulty client drivers is that they do not support or recognize some of the features or standards of the 802.11ac technology, such as wider channel bandwidths, higher modulation schemes, or DFS (Dynamic Frequency Selection) channels. This could explain why the laptop can see and connect to 2.4 GHz APs, but not 5 GHz APs, as 802.11ac operates only in the 5 GHz band and uses channels that are wider (up to 160 MHz) and higher (up to channel 165) than those used by previous standards. Moreover, some of the

5 GHz channels are subject to DFS rules, which require the access points and client stations to monitor and avoid using channels that are occupied by radar systems or other primary users. If the client drivers do not support or comply with DFS rules, they may not be able to see or connect to access points that use DFS channels.

To solve this problem, the client drivers should be upgraded to the latest version that supports and is compatible with 802.11ac features and standards. This can be done by downloading and installing the updated driver software from the manufacturer's website or using a device manager tool. Upgrading the client drivers may also improve other aspects of wireless performance and functionality, such as data rates, signal strength, security, and stability. References: 1, Chapter 12, page 493; 2, Section 8.1

NEW QUESTION # 49

XYZ Company has decided to install an 802.11 WLAN system that will support 1083 wireless users, but they are concerned about network security. XYZ is interested in deploying standardized security features. In addition to WPA2-Enterprise with PEAP and role-based access control, XYZ would like to support management frame protection as well as a fast secure roaming protocol for future mobile handsets.

As XYZ Company selects a product to deploy, what two IEEE amendments, which are included in 802.11-2016, and 802.11-2020 should be supported to provide the management frame protection and fast secure roaming security features?

- A. 802.11r and 802.11w
- B. 802.11j and 802.11k
- C. 802.11k and 802.11v
- D. 802.11j and 802.11z

Answer: A

Explanation:

The two IEEE amendments that should be supported to provide the management frame protection and fast secure roaming security features are 802.11r and 802.11w12.

* 802.11r (Fast BSS Transition): This amendment to the IEEE 802.11 standard permits continuous connectivity aboard wireless devices in motion, with fast and secure client transitions from one Basic Service Set to another1.

* 802.11w (Management Frame Protection): This amendment increases the security of its management frames2.

NEW QUESTION # 50

Lynne runs a small hotel, and as a value added service for his customers he has implemented a Wi-Fi hot- spot. Lynne has read news articles about how hackers wait at hot-spots trying to take advantage of unsuspecting users. He wants to avoid this problem at his hotel.

What is an efficient and practical step that Lynne can take to decrease the likelihood of active attacks on his customers' wireless computers?

- A. Enable station-to-station traffic blocking by the access points in the hotel.
- B. Implement an SSL VPN in the WLAN controller that initiates after HTTPS login.
- C. Implement Network Access Control (NAC) and require antivirus and firewall software along with OS patches.
- D. Require EAP-FAST authentication and provide customers with a username/password on their receipt.

Answer: A

Explanation:

In a public Wi-Fi hotspot, like the one Lynne runs in his hotel, ensuring customer security against active attacks is crucial. Active attacks involve unauthorized access, eavesdropping, or manipulation of the network traffic. To mitigate such threats, an effective and practical step is:

* Station-to-Station Traffic Blocking: Also known as client isolation, this feature prevents direct communication between devices connected to the Wi-Fi network. By enabling this on the access points, Lynne can significantly decrease the likelihood of active

attacks like man-in-the-middle (MITM) attacks, where an attacker intercepts and possibly alters the communication between two parties.

The other options, while beneficial for network security, might not be as straightforward or practical for Lynne's situation:

* Network Access Control (NAC) requires a more complex infrastructure and management, which might not be ideal for a small hotel setup.

* Implementing an SSL VPN adds an extra layer of security but might complicate the login process for users, potentially affecting the user experience.

* Requiring EAP-FAST authentication provides secure authentication but may not be feasible for transient customers who expect quick and easy network access.

Therefore, enabling station-to-station traffic blocking is a practical and efficient measure that Lynne can implement to enhance customer security on the Wi-Fi network.

References:

CWNA Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109, by David D. Coleman and David A. Westcott.

Best practices for securing a wireless network in a public hotspot environment.

NEW QUESTION # 51

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. Calibrate the floor plan
- B. Nothing, you can simply start capturing signal readings
- C. Install WinPCAP
- D. Install iPerf

Answer: A

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 # 52

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