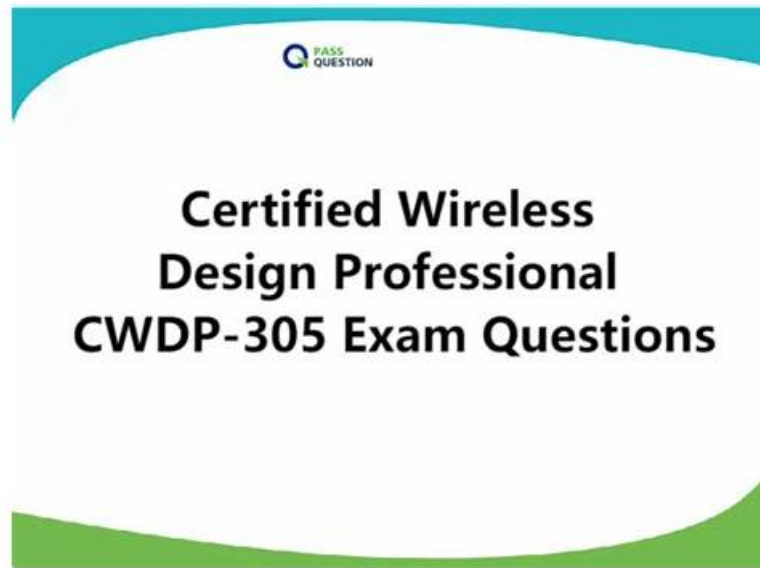


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CWNP Certified Wireless Design Professional Sample Questions (Q121-Q126):

NEW QUESTION # 121

When deploying an Enterprise-class VoWLAN infrastructure, which Access Category (AC) must be used to prioritize voice packets and ensure optimal performance?

- A. AC_BK
- B. AC_BE
- C. AC_VO
- D. AC_VI

Answer: C

Explanation:

In Wi-Fi networks, the IEEE 802.11e amendment introduces Quality of Service (QoS) features, allowing traffic to be categorized into different Access Categories (ACs) to prioritize data transmission. For Voice over WLAN (VoWLAN) applications, it is crucial to prioritize voice traffic to ensure low latency and jitter. The AC_VO (Voice Access Category) is designated for this purpose, providing the highest priority over other traffic types.

Implementing AC_VO ensures that voice packets are transmitted with minimal delay, which is essential for maintaining call quality in enterprise environments.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Designing for Specific Applications

NEW QUESTION # 122

Your customer's 802.11n laptops are not able to see the SSID in the 5 GHz band in the conference room. When doing a walkthrough using one of these laptops, you confirm that it is unable to see the SSID in the 5 GHz band in the conference room. When using your own 802.11 ac laptop, you're able to see the SSID. What is the most likely cause of this problem?

- A. The customer laptop does not support Transmit Beamforming
- B. Their laptops are SISO clients
- C. The AP is configured to use channel 36
- **D. The AP is on channel 144**

Answer: D

NEW QUESTION # 123

In your company's WLAN, you expect to have a mixed client PHY environment and plan to use protection mechanisms. The protection mechanism used by your client devices is configurable.

What is the best protection mechanism for backward compatibility of 802.11n devices with 802.11b devices?

Response:

- **A. RTS/CTS**
- B. CTS-to-Self
- C. SMPS
- D. Dual-CTS
- E. WMM Protection

Answer: A

Explanation:

RTS/CTS is the best protection mechanism for backward compatibility of 802.11n devices with 802.11b devices because it prevents collisions and interference between different modulation types. 802.11n devices use OFDM, while 802.11b devices use DSSS. These two modulation types are not compatible with each other, but they can coexist in the same environment if they use protection mechanisms to avoid overlapping transmissions. RTS/CTS is a protection mechanism that requires a station to send a Request to Send (RTS) frame before transmitting data, and wait for a Clear to Send (CTS) frame from the receiver or the access point. The RTS and CTS frames are sent at a clause 15 (DSSS) or clause 18 (HR/DSSS) rate, which can be understood by both 802.11n and 802.11b devices. The RTS and CTS frames also contain a duration field that indicates how long the data transmission will last. This way, other stations can defer their transmissions until the channel is clear. RTS/CTS reduces the chances of collisions and hidden node problems, and improves the performance and reliability of the wireless network. References: CWNP, CWDP Certified Wireless Design Professional Official Study Guide, How 802.11n backward compatibility works

NEW QUESTION # 124

ABC Manufacturing has a heavily-used dual-band (2.4 / 5 GHz) WLAN, but sporadic RF interference across the 2.4 GHz band is causing dropped VoWiFi calls and leading to data connectivity and throughput problems.

In addition to avoiding 2.4 GHz channels and installing a distributed spectrum analyzer to locate RF interference sources, what should the implementer do to resolve the problem fully?

- A. Implement WPA-PSK everywhere in the network.
- B. Have only guest access on the 5 GHz channels.

- C. Use captive portals for guest authentication in 5 GHz.
- D. Move all corporate data clients and VoWiFi devices to the 5 GHz channels appropriate for their regulatory domain.

Answer: D

Explanation:

Comprehensive and Detailed Explanation:

The 5 GHz band offers more non-overlapping channels and is less susceptible to interference compared to the 2.4 GHz band. By moving corporate data clients and VoWiFi devices to the 5 GHz band, the network can achieve better performance and reduced interference, especially for latency-sensitive applications like voice over Wi-Fi.

Reference: CWDP-305 Official Study Guide, Chapter on Infrastructure Design

NEW QUESTION # 125

You are validating client association capabilities to an 802.1X/EAP secure SSID. The RADIUS server's IP address is 10.100.50.25, and the default RADIUS authentication port is being used. None of the clients can associate with the SSID. After verifying that both the server and the RADIUS service are operational, you find that the authenticator (such as the AP or controller) is not communicating properly with the RADIUS server. What is your next troubleshooting step?

- A. Reboot the server to empty the shared secret cache
- B. Reboot the clients to empty the shared secret cache
- C. Verify that the shared secret between the authenticator and the RADIUS server is correct
- D. Restart the RADIUS service to empty the shared secret cache

Answer: C

Explanation:

In 802.1X/EAP authentication, the shared secret between the authenticator and the RADIUS server must match. If clients cannot associate and the RADIUS server is operational, the next step is to verify that the shared secret configured on both the authenticator and the RADIUS server is identical. A mismatch will prevent successful authentication.

Reference: CWDP-305 Official Study Guide, Chapter on Post-Design Validation and Troubleshooting

NEW QUESTION # 126

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