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Die Ausbildungsmaterialien zur CWNP CWNA-109 Zertifizierungsprüfung aus ZertSoft enthalten Testfragen und Antworten. Diese Materialien sind von unserer Berufsgruppe aus erfahrenen IT-Experten untersucht und erforscht, deren Autorität zweifellos ist. Sie können auf unserer Webseite einige kostenlosen Testaufgaben und Antworten als Probe herunterladen. Nachdem Sie unsere Ausbildungsmaterialien zur CWNP CWNA-109 Zertifizierungsprüfung gekauft haben, werden wir Ihnen einjähriger Aktualisierung kostenlos anbieten.

CWNP CWNA-109 Prüfungsplan:

Thema	Einzelheiten
Thema 1	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.
Thema 2	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.

Thema 3	WLAN Regulations and Standards: The topic discusses the roles of WLAN and networking industry organizations. It also addresses the concepts of various Physical Layer (PHY) solutions, spread spectrum technologies, and 802.11 WLAN functional concepts.
Thema 4	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.
Thema 5	RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.

>> CWNP CWNA-109 Exam Fragen <<

CWNA-109 Musterprüfungsfragen - CWNA-109Zertifizierung & CWNA-109Testfragen

ZertSoft hat riesiges Expertenteam. Sie untersucht ständig nach ihren Kenntnissen und Erfahrungen die CWNP CWNA-109 (CWNP Wireless Network Administrator (CWNA)) IT-Zertifizierungsprüfung in den letzten Jahren. Ihre Forschungsergebnisse sind nämlich die Produkte von ZertSoft. Die Fragen und Antworten zur CWNP CWNA-109 Zertifizierungsprüfung von ZertSoft sind den realen Fragen und Antworten sehr ähnlich. Sie können vielen helfen, ihren Traum zu verwirklichen. ZertSoft verspricht, dass Sie die CWNP CWNA-109 (CWNP Wireless Network Administrator (CWNA)) Prüfung erfolgreich zu bestehen. Sie können beruhigt ZertSoft in Ihren Warenkorb schicken. Mit ZertSoft können Sie Ihren Wunsch sofort erfüllen.

CWNP Wireless Network Administrator (CWNA) CWNA-109 Prüfungsfragen mit Lösungen (Q22-Q27):

22. Frage

When considering data rates available in HT and VHT PHY devices, in addition to the modulation, coding, channel width, and spatial streams, what impacts the data rate according to the MCS tables?

- A. client drivers
- B. Frequency band in use
- C. guard interval
- D. Antenna Height

Antwort: C

Begründung:

The guard interval is a short period of time inserted between the symbols of an OFDM signal to prevent inter-symbol interference and improve the robustness of the transmission. The guard interval can have different values depending on the 802.11 standard and the configuration of the device. For example, 802.11n supports two guard intervals: 800 ns (normal) and 400 ns (short).

802.11ac supports the same guard intervals as 802.11n, plus an optional 200 ns guard interval for 80 MHz and 160 MHz channels.

802.11ax supports three guard intervals: 800 ns, 1600 ns, and 3200 ns.

The guard interval affects the data rate because it determines the duration of each symbol. A shorter guard interval means more symbols can be transmitted in a given time, resulting in a higher data rate. However, a shorter guard interval also means less protection against inter-symbol interference, which may degrade the signal quality and increase the error rate. Therefore, there is a trade-off between data rate and reliability when choosing the guard interval. The MCS tables for HT and VHT PHY devices show the data rates for different combinations of modulation, coding, channel width, spatial streams, and guard intervals. For example, for a VHT device using MCS 9 with QAM-256 modulation, 5/6 coding rate, 80 MHz channel width, and one spatial stream, the data rate is 433.3 Mbps with a normal guard interval (800 ns) and 486.7 Mbps with a short guard interval (400 ns). Therefore, the guard interval impacts the data rate according to the MCS tables.

23. Frage

A client complains of low data rates on his computer. When you evaluate the situation, you see that the signal strength is -84 dBm and the noise floor is -96 dBm. The client is an 802.11ac client and connects to an

802.11ac AP. Both the client and AP are 2x2:2 devices. What is the likely cause of the low data rate issue?

- A. Weak signal strength
- B. CAT5e cabling run to the AP
- C. Lack of support for 802.11n
- D. Too few spatial streams

Antwort: A

Begründung:

Weak signal strength is the likely cause of the low data rate issue for the client that has a signal strength of -84 dBm and a noise floor of -96 dBm. The client is an 802.11ac client and connects to an 802.11ac AP. Both the client and AP are 2x2:2 devices. Signal strength is the measure of how strong the RF signal is at the receiver.

Signal strength can affect the reliability and performance of the wireless connection, as well as the data rate and throughput of the traffic. The higher the signal strength, the better the signal quality and the higher the data rate. The lower the signal strength, the worse the signal quality and the lower the data rate.

The data rate of an 802.11ac connection depends on several factors, such as channel bandwidth, modulation and coding scheme (MCS), spatial streams, guard interval, and beamforming. However, these factors are also influenced by the signal strength, as they require a certain signal-to-noise ratio (SNR) to operate properly.

SNR is the ratio of the signal strength to the noise floor, which is the measure of the background noise or interference in the RF environment. The higher the SNR, the more robust and efficient the communication.

The lower the SNR, the more prone and vulnerable to errors and retries.

According to the CWNA Official Study Guide, Table 3.7, page 112, an 802.11ac connection with a channel bandwidth of 80 MHz, an MCS of 9, two spatial streams, a short guard interval, and no beamforming can achieve a maximum data rate of 867 Mbps. However, this data rate requires a minimum SNR of 30 dB to maintain a sufficient signal quality. If the signal strength is -84 dBm and the noise floor is -96 dBm, then the SNR is only 12 dB ($-84 \text{ dBm} - (-96 \text{ dBm}) = 12 \text{ dB}$), which is far below the required SNR for this data rate.

Therefore, the data rate will drop significantly to match the lower SNR and signal quality.

To solve this problem, the signal strength should be increased to improve the SNR and data rate. This can be done by adjusting the output power or channel assignment of the AP or client, relocating or reorienting some APs or antennas to reduce attenuation or interference, updating or replacing some faulty or outdated hardware or software components, etc. References: , Chapter 3, page 112; , Section 3.2

24. Frage

You are managing a wireless access point in autonomous mode using the Web based interface. You capture traffic during this management task and notice that you can see the HTML code of the Web pages used for access point management. What error in administration could be the cause of this security concern?

- A. HTTP is in use instead of HTTPS
- B. A VPN with the AP is not established
- C. WPA2 is disabled on the WLAN
- D. IPsec is not in use of the management connection as recommended

Antwort: A

Begründung:

The error in administration that could be the cause of this security concern is that HTTP is in use instead of HTTPS. HTTP is an unencrypted protocol that transfers data in plain text over the network. This means that anyone who captures the traffic can see the HTML code of the Web pages used for access point management, as well as any sensitive information such as passwords or configuration settings. HTTPS is an encrypted protocol that uses SSL/TLS to secure the data transmission between the Web browser and the Web server.

HTTPS prevents anyone from snooping on or tampering with the Web traffic. Therefore, HTTPS should always be used for Web based management of wireless access points, especially in autonomous mode where there is no centralized controller to enforce security policies. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 431; [HTTP vs HTTPS: What's The Difference And Why Should You Care?].

25. Frage

What is the maximum channel bandwidth supported by the 802.11ac amendment operating in the 5 GHz band?

- A. 40 MHz
- **B. 160 MHz**
- C. 320 MHz
- D. 80 MHz

Antwort: B

Begründung:

The 802.11ac amendment supports channel bonding up to 160 MHz in the 5 GHz band, in addition to 20 MHz, 40 MHz, and 80 MHz channel widths. While 160 MHz channels can significantly increase theoretical throughput, they also consume a large portion of the available 5 GHz spectrum and can be difficult to implement in real-world deployments due to limited channel availability and increased susceptibility to interference. 320 MHz channel widths were later introduced with 802.11be (Wi-Fi 7) in the 6 GHz band.

26. Frage

In a long-distance RF link, what statement about Fade Margin is true?

- A. A Fade Margin is unnecessary on a long-distance RF link if more than 80% of the first Fresnel zone is clear of obstructions.
- **B. Fade Margin is an additional pad of signal strength designed into the RF system to compensate for unpredictable signal fading.**
- C. The Fade Margin is a measurement of signal loss through free space and is a function of frequency and distance.
- D. The Fade Margin of a long-distance radio link should be equivalent to the receiver's low noise filter gain.

Antwort: B

Begründung:

Fade Margin is an additional pad of signal strength designed into the RF system to compensate for unpredictable signal fading. It is the difference between the receiver's sensitivity and the actual received signal level. A higher Fade Margin indicates a more robust link that can withstand interference, attenuation, or other factors that may reduce the signal strength. A lower Fade Margin means that the link is more susceptible to failure or performance degradation. Fade Margin is usually expressed in decibels (dB) and can be calculated by subtracting the receiver sensitivity from the received signal level. References: 1, Chapter 2, page 51; 2, Section 2.1

27. Frage

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Das Leben ist mit den Wahlen gefüllt. Wahl kann nicht unbedingt Ihnen das absolute Glück bringen, aber sie kann Ihnen viele Chancen bringen. Wenn Sie die Chance verpasst haben, können Sie nur bereuen. Die Fragenpool zur CWNP CWNA-109 Zertifizierungsprüfung von ZertSoft sind die Grundbedarfsbedürfnisse für jeden Kandidaten. Mit ihr können Sie alle Probleme lösen. Die Fragenpool zur CWNP CWNA-109 Zertifizierungsprüfung von ZertSoft sind umfassend und zielgerichtet, am schnellsten aktualisiert und die vollständigsten. Mit ZertSoft brauchen Sie sich nicht mehr um die CWNA-109 Zertifizierungsprüfung befürchten. Sie werden alle CWNA-109 Prüfungen ganz mühlos bestehen.

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