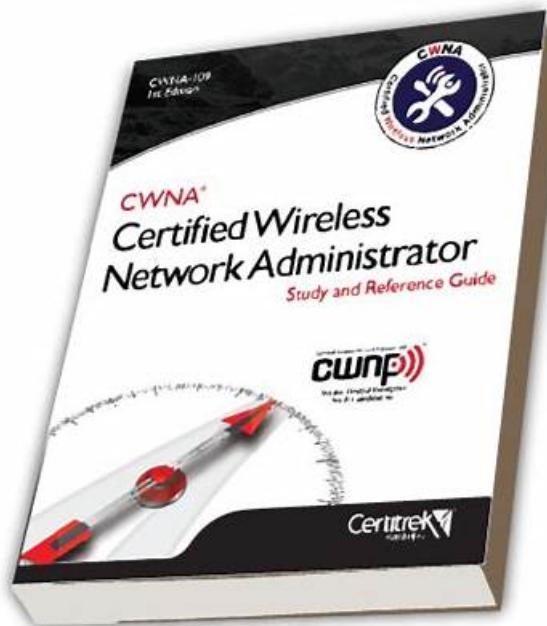


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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q24-Q29):

NEW QUESTION # 24

What feature of 802.11ax (HE) may impact design decisions related to AP placement and the spacing between same-channel BSS cells (3SAs) because it is designed to reduce overlapping BSS contention?

- A. uplink MU-MIMO
- B. BSS Color
- C. 6 GHz band support
- D. TWT

Answer: B

Explanation:

In the 802.11ax (High Efficiency, HE) amendment, one of the key features introduced is BSS (Basic Service Set) Coloring. This feature is designed to mitigate issues arising from overlapping BSSs (OBSS), which can lead to contention and interference in dense wireless environments. BSS Coloring works by:

* Assigning a "color" (a small number) to each BSS: This helps devices differentiate between frames from their own BSS and those from neighboring BSSs.

* Reducing Inter-BSS Interference: Devices can ignore frames from different BSSs (with a different "color") under certain conditions, reducing the impact of OBSS interference.

* Improving Spatial Reuse: By distinguishing between transmissions from different BSSs, devices can make more informed decisions about when to transmit, improving the efficiency of spatial reuse and reducing unnecessary contention.

This feature directly impacts design decisions related to AP placement and the spacing between same-channel BSS cells, as it allows for closer placement of APs on the same channel without significantly increasing interference, thus improving overall network capacity and efficiency.

The other options, while features of 802.11ax, do not directly pertain to reducing overlapping BSS contention in the same manner:

* TWT (Target Wake Time) optimizes device sleep schedules to conserve power.

* Uplink MU-MIMO enhances uplink data transmission capabilities but doesn't specifically address OBSS contention.

* 6 GHz Band Support introduces new spectrum for Wi-Fi use but is not a feature aimed at reducing OBSS contention within the 802.11ax framework.

Therefore, the correct answer is B, BSS Color.

References:

IEEE 802.11ax-2021: Enhancements for High Efficiency WLAN.

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

Coleman and David A. Westcott.

NEW QUESTION # 25

What feature of 802.11ax (HE) may impact design decisions related to AP placement and the spacing between same-channel BSS cells (3SAs) because it is designed to reduce overlapping BSS contention?

- A. uplink MU-MIMO
- B. BSS Color
- C. 6 GHz band support
- D. TWT

Answer: B

Explanation:

In the 802.11ax (High Efficiency, HE) amendment, one of the key features introduced is BSS (Basic Service Set) Coloring. This feature is designed to mitigate issues arising from overlapping BSSs (OBSS), which can lead to contention and interference in dense wireless environments. BSS Coloring works by:

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* Reducing Inter-BSS Interference: Devices can ignore frames from different BSSs (with a different "color") under certain conditions, reducing the impact of OBSS interference.

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The other options, while features of 802.11ax, do not directly pertain to reducing overlapping BSS contention in the same manner:

* TWT (Target Wake Time) optimizes device sleep schedules to conserve power.

- * Uplink MU-MIMO enhances uplink data transmission capabilities but doesn't specifically address OBSS contention.
- * 6 GHz Band Support introduces new spectrum for Wi-Fi use but is not a feature aimed at reducing OBSS contention within the 802.11ax framework.

Therefore, the correct answer is B, BSS Color.

References:

- * IEEE 802.11ax-2021: Enhancements for High Efficiency WLAN.
- * CWNA Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109, by David D. Coleman and David A. Westcott.

NEW QUESTION # 26

An RF signal sometimes bends as it passes through some material other than free space. What is the term that describes this behavior?

- A. Warping
- B. **Refraction**
- C. Scattering
- D. Reflection

Answer: B

Explanation:

Refraction is the bending of an RF signal as it passes through a medium with a different density than free space. This can cause the signal to change its direction and speed, which can affect the accuracy and reliability of wireless communication. Refraction is influenced by factors such as temperature, humidity, and atmospheric pressure¹². References: CWNA-109 Study Guide, Chapter 2: Radio Frequency Fundamentals, page 72; CWNA-109 Study Guide, Chapter 2: Radio Frequency Fundamentals, page 67.

NEW QUESTION # 27

802.11ax (HE) introduces Resource Units that can be used to allow communications with multiple devices at the same time, on the same channel, in the same BSS. What feature of 802.11ax provides this functionality?

- A. **OFDMA**
- B. Wi-Fi-LTE
- C. 6 GHz support
- D. TWT

Answer: A

Explanation:

The feature of 802.11ax (HE) that provides this functionality is OFDMA. OFDMA stands for Orthogonal Frequency Division Multiple Access and is a technology that allows multiple devices to communicate simultaneously on the same channel in the same BSS. OFDMA works by dividing a channel into smaller subchannels called Resource Units (RUs), which are composed of groups of subcarriers or tones. Each RU can be assigned to a different device based on its bandwidth requirement and signal quality. This way, OFDMA can increase the efficiency and capacity of the channel by reducing overhead, contention, and latency. OFDMA can also support both uplink and downlink multi-user transmissions using trigger frames and buffer status reports. 6 GHz support, TWT, and Wi-Fi-LTE are not features of 802.11ax that provide this functionality. References: [CWNP Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 226; [CWNA: Certified Wireless Network Administrator Official Study Guide: Exam CWNA-109], page 216.

NEW QUESTION # 28

When replacing the antenna of a WLAN device with a similar antenna type that has a higher passive gain, what antenna characteristic will decrease?

- A. Range
- B. Receive sensitivity
- C. Active gain
- D. **Beamwidth**

Answer: D

Explanation:

According to the CWNA Official Study Guide (CWNA-109), Chapter 4: Antennas and Accessories, antenna gain is a measure of how effectively an antenna focuses energy in a particular direction. When a passive antenna with a higher gain is used, it does not increase the transmitted power - instead, it focuses the RF energy more narrowly, creating a stronger signal in a smaller area.

"As the gain of an antenna increases, the beamwidth of the antenna decreases. This is because a higher gain antenna focuses energy more narrowly in one direction. While this increases range in that direction, it reduces coverage in other directions."

- CWNA-108 Study Guide, Chapter 4, Antenna Concepts and Beamwidth, p. 165-166 Thus, when you replace an antenna with one of higher passive gain, the beamwidth decreases while range in the direction of focus increases.

NEW QUESTION # 29

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