



CWNP

CWDP-302 Exam

**CWNP CWDP - Certified Wireless Design Professional Exam
CWNP**

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Version: 8.0

Question: 1

You have determined the best mounting locations for APs in a given installation. The facilities manager has asked you to change the locations for several APs due to aesthetic concerns. You suggest mounting the APs in the ideal locations and painting them so they go unnoticed in the environment.

What is a valid recommendation or consideration when painting APs?

- A. Always use paints with metallic dye in them to prevent potential RF propagation impact.
- B. Painting APs will significantly reduce the output power.
- C. Painting APs may void the product manufacturer's warranty.
- D. Most AP models for indoor environments come in a variety of form factors and colors. Painting is never recommended.

Answer: C

Question: 2

When deploying long-distance 802.11 bridge links (10 miles / 16 km), what parameter may be critical for improving data flow by reducing retries caused by the long distances?

- A. The sequence control field value
- B. The acknowledgement timeout threshold
- C. The minimum transmit data rate value
- D. The CTS-to-self threshold

Answer: B

Question: 3

One of your customers plans on providing wireless coverage to a warehouse facility. After performing an initial walkthrough, you collect the following information:

The central part of the warehouse is between 400 and 600 feet (122 to 183 meters) from the warehouse switches mounted on the walls.

The warehouse storage is composed of metallic racks with varying inventory levels and contents, from electronics and plastic toys to food pallets and juice bottles.

Workers need basic data coverage from their working location, and are not highly mobile. They usually work from one single aisle, and their laptop is on a cart with wheels.

What would be your one recommendation to provide coverage to the central area of the warehouse?

- A. Equip workers laptops with a directional antenna and install APs less than 328 feet (100m) away

from the switch.

- B. In this case, extend the cable length just beyond 328 feet (100 m) and position APs as close as possible to the central area of the warehouse.
- C. Position APs along the walls, and equip the APs with Yagi antennas to cover the central area.
- D. Install APs for client access in the central area and use a mesh backhaul link to connect to the DS.

Answer: D

Question: 4

Which definition correctly describes the “local MAC” variation of the centralized WLAN architecture?

- A. All MAC functions are performed by the AP. A minimal subset of network control is offloaded to the WLAN controller along with management and monitoring functions.
- B. PHY functions are performed directly by the AP. MAC functions are divided almost equally between the WLAN controller and the AP, according to the time sensitivity of the feature or service.
- C. The AP provides the RF termination point for the WLAN, but performs very few of the WLAN functions or services. The WLAN controller performs all MAC functions and the AP is very simple and lightweight.
- D. All RF-, data-, and control-related WLAN functions are performed by the AP. APs coordinate network services with one another and are managed by a WNMS, so no WLAN controller is used in this architecture.

Answer: A

Question: 5

When a WLAN controller sends an 802.11 frame to a lightweight AP for transmission on the wireless medium, how does it mark the frame for 802.11 QoS priority?

- A. The WLAN controller will place the user priority (UP) value in the QoS Control field of the 802.11 frame header before passing it to the lightweight AP.
- B. The WLAN controller does not mark 802.11 frames with priority values only the APs can do this.
- C. The WLAN controller does not mark the 802.11 frames with priority values only the Layer 3 switches can do this.
- D. The WLAN controller does not mark the 802.11 frames with priority values only the Layer 3 routers can do this.

Answer: A

Question: 6

When selecting a centralized WLAN architecture, what new problem may arise when you change the data forwarding model from centralized to distributed?

- A. APs that were designed for a centralized forwarding model may not support all features in

distributed forwarding mode.

B. The router between the APs and the controller must be made aware of the APs as forwarding client STAs.

C. All RRM controls will also need to be distributed to a master AP that acts as a channel and transmit power arbiter for other APs in the ESS.

D. Centralized control functions, such as key management and distribution, RRM, and load balancing will no longer be supported.

Answer: A

Question: 7

Which one of the following is an essential metric to measure when performing a survey and design for VoIP across WLANs?

A. Throughput rates above 50 Mbps

B. Data rates above 100 Mbps

C. Latency

D. PoE provided to wireless handsets

Answer: C

Question: 8

In a manufacturing facility with highly reflective materials, you are planning an upgrade to your existing 802.11b WLAN implementation. You have chosen a dual-band 802.11n infrastructure product for this purpose. Your client applications include:

Handheld scanners — for inventory management

Toughbooks (laptops) — mounted on forklifts for inventory and workflow management

VoWiFi phones — used by select employees throughout the facility

You are evaluating all of the 802.11n enhancements and determining which features to enable for your environment and applications.

In this scenario, what 802.11n enhancement typically should NOT be enabled on the 2.4 GHz radio of the new APs?

A. Multiple streams

B. Short guard intervals

C. Block Acknowledgments

D. Frame aggregation

Answer: B

Question: 9

When implementing WLAN security according to common best practices, what feature should be enabled when configuring an EAP type?

- A. The “Use WEP if RADIUS server unavailable” option
- B. The “Validate server certificate” option
- C. The “Trusted Root Certification Authorities” list
- D. The “Do not prompt user to authorize new servers or trusted certification authorities” option

Answer: B

Question: 10

You are selecting external antennas for use in a bridge link deployment. What chart should you request from the antenna vendors to make an accurate selection?

- A. mW to dBm conversion chart
- B. dBm to dB conversion chart
- C. Elevation chart
- D. Antenna coating chart

Answer: C

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