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QUESTION 1

During a post-deployment verification, you are requested to troubleshoot an area where users are experiencing poor throughput. They are using data communication only, mainly from laptops. You captured the frame showing an incorrect FCS. This frame is typical of those that were captured by the analyzer.

What does this frame reveal about the RF network in this area?

- A. One station seems to be streaming video, thus may have reserved significant bandwidth via admission control
- B. Contention Free is in place in this network, which may starve some non-QoS stations from access
- C. Multipath or excessive collisions seem to be an issue in this area
- D. The AP seems to be too far to provide enough coverage to this area

Correct Answer: C

QUESTION 2

As an implementation engineer, you have just received initial design specs from a network designer for your dual-band 802.11n deployment. The network design documents prescribe the following data rate configuration for the 2.4 GHz radio:

Basic Rates -- 5.5, 6, 11, 12 Mbps

Supported Rates -- 9, 18, 24, 36, 48, and 54 Mbps as well as MCS 0-15

What will result from this design strategy?

- A. By disabling support for 1 and 2 Mbps while allowing 5.5 and 11 Mbps, the network will force 802.11b clients to use these higher data rates.
- B. Protection mechanisms will always be in use on this network to support 5.5 and 11 Mbps as basic rates.
- C. HR/DSSS (802.11b) stations will not be able to associate to the service set.
- D. This configuration violates the IEEE specification that defines 6, 12, and 24 Mbps as mandatory data rates for 802.11g/n.

Correct Answer: C

QUESTION 3

Given:

In your regulatory domain, a Tx Power Level of "1" is equivalent to 17 dBm.

For every integer increment (e.g. from 1 to 2) to the Tx Power Level, the AP's transmit power is halved.

In units of mW, what is the actual transmit power for an AP configured at a Tx Power Level of "4"?



- A. 6.25 mW
- B. 50 mW
- C. 12.5 mW
- D. 8 mW

Correct Answer: A

QUESTION 4

You are site surveying a network for VoWiFi. You have positioned an AP for a manual survey and are moving away from the AP with a phone in Survey Mode in your hand and you are reading the RSSI value of the signal received from the AP. You have previously determined that the noise floor was approximately -94 dBm on this floor of the building. The phone's documentation does not specify a recommended RSSI or SNR value for best performance.

Based on the information provided and the type of device (VoWiFi phone) you are deploying, what minimum RSSI should you plan for in all areas you are monitoring and where VoWiFi service is desired?

- A. -75 dBm
- B. -72 dBm
- C. -67 dBm
- D. -62 dBm

Correct Answer: C

QUESTION 5

What is the purpose of DHCP Option 43, and how is it used with WLANs?

- A. It provides clients with a temporary IP address on a restricted VLAN until 802.1X authentication is completed. Then the client receives its long-term IP address.
- B. It provides IP address bindings for specific network nodes that require long-term IP address assignments. WLAN controllers are configured to use Option 43 to receive long-term IP address leases that are centrally managed with DHCP.
- C. It supports vendor-specific IP address attributes for node discovery purposes. APs use Option 43 with vendor class identifiers to obtain the IP address of a centralized WLAN controller.
- D. It integrates a DHCP server with AAA servers and user databases to dynamically assign IP addresses to client devices. During 802.1X, the AAA server uses Option 43 to notify the DHCP server what IP pool the client's address should be drawn from.

Correct Answer: C



QUESTION 6

What kind of antenna results in a nearly circular pattern on the azimuth chart but a very flat donutshape on the elevation chart?

- A. High gain omni-directional
- B. 20 degree vertical yagi
- C. 120 degree horizontal sector
- D. 60 degree horizontal patch

Correct Answer: A

QUESTION 7

You are creating an outdoor bridge link that spans more than 1000 yards. Which one of the following antenna types is more likely to be included in the design?

- A. Yagi
- B. Omni
- C. Patch
- D. Panel

Correct Answer: A

QUESTION 8

What action should be taken after implementing a WLAN based on the design developed from the site survey process?

- A. Post-installation survey
- B. Requirements analysis
- C. Gathering facility documentation
- D. Design the infrastructure services

Correct Answer: A

QUESTION 9

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

Correct Answer: B

QUESTION 10

Assume that your network operates in a regulatory domain that allows use of the entire 5 GHz space allowed in the 802.11ac amendment. In your upcoming 802.11ac deployment, you would like to take advantage of the performance improvements that result from channel bonding. However, after extensive testing, you have determined that your mission-critical WLAN should not use channels requiring DFS support. Given those two criteria (enable channel bonding and disable DFS channels), in the 5 GHz spectrum, how many non-overlapping 40 MHz channels will your system be able to use?

- A. 2
- B. 3
- C. 4
- D. 6

Correct Answer: C

QUESTION 11

What is the meaning of a Real Time FFT graph?

- A. Real Time FFT means Real Time First Fundamental Trace and shows the value of the first signal detected on each frequency at each sweep interval.
- B. Real Time FFT means Real Time Fast Frequency Timing and shows the RF pulses measured by the Layer 1 sweep tool.
- C. Real Time FFT means Real Time Fast Fourier Transform and shows the max value of the signal detected on each frequency in real time.
- D. Real Time FFT means Real Time Frequency Fundamental Texture and shows the value of the noise background generated by the card used to perform the Layer 1 sweep.

Correct Answer: C



QUESTION 12

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

Correct Answer: C

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