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QUESTION 1

When performing an active site survey in an existing WLAN infrastructure, in addition to gathering throughput data, what other important function will you typically be testing at the same time?

- A. Application filtering
- B. Internet bandwidth
- C. Roaming
- D. ACL configuration

Correct Answer: C

QUESTION 2

You are on site, planning a network at a freight shipping company on a busy harbor. Since the preliminary WLAN design specifies support for the 5 GHz spectrum, you would like to test for radar pulses to determine if DFS channels should be supported at this facility. As a part of your spectral survey with a laptop-based analyzer, you include DFS testing to identify the presence of radar. This is done by manually observing Real-time FFT, Duty Cycle, and Active Devices charts of the spectrum analyzer software.

What potential drawback is present with this DFS test method?

- A. Many WLAN products that support DFS channels report several false positives. Ideally, the actual WLAN equipment used in the deployment should be used to test for DFS.
- B. Some sources of 5 GHz radar, such as military ships, are mobile in nature. A longer, automated test setup should be used to identify the presence or absence of radar.
- C. Manual identification of radar pulses using spectrum analysis charts can be very difficult due to radar's low amplitude at the Wi-Fi receiver.
- D. Modern spectrum analyzer adapters do not provide the necessary bandwidth resolution required to detect and measure radar signatures.

Correct Answer: C

QUESTION 3

In the enterprise, when is WPA/WPA2-Personal generally a recommended solution?(Choose all that apply.) Response:

- A. When client devices do not support 802.1X/EAP
- B. When mobile device applications require high-latency roaming times between APs

- C. When client devices are provisioned in bulk and would otherwise share 802.1X credentials
- D. When the network security policy demands that each user have unique access credentials

Correct Answer: AC

QUESTION 4

When you see the SKINNY protocol in a post-install validation protocol capture, what does this indicate?

- A. Secure FTP is in use
- B. VoIP is used on the network
- C. HTTPS is in use
- D. Multicasting is used on the network

Correct Answer: B

QUESTION 5

A cable with 2.5 dB of loss is used to measure the return loss of an antenna. The measured value in-band is shown to be larger than 20 dB. What is the actual return loss of the antenna, and is it considered to be a reasonable value?

Response:

- A. Larger than 15 dB and yes
- B. Larger than 15 dB and maybe
- C. Larger than 17.5 dB and yes
- D. Larger than 17.5 dB and no

Correct Answer: A

QUESTION 6

What limitation exists when WMM is not enabled on an 802.11n WLAN? Response:

- A. The maximum channel-width will be 20MHz
- B. Only two ACs will be available
- C. EDCA values will change
- D. 802.11 QoS will not be available

Correct Answer: D

QUESTION 7

When using a predictive design tool, you have selected APs with an antenna gain 3 dBi and set the transmit power of the predicted APs to 25 mW. What should be EIRP of the APs in the design?

Response:

- A. 17 dBm
- B. 125 mW
- C. 11 dBm
- D. 6.25 mW

Correct Answer: A

QUESTION 8

A customer wants to deploy a WLAN that employs centralized forwarding. What LAN requirements should you look for?

Response:

- A. High-speed Ethernet links
- B. Layer 3 at the access layer
- C. Layer 2 at the distribution layer
- D. Routing redundancy protocol

Correct Answer: A

QUESTION 9

You are using site software design features. You have imported a floor plan, but the simulated RF coverage is nowhere close to the real RF coverage you see with a walkabout.

Given that the simulation is significantly different, when step was likely missed when using the software?

Response:

- A. Conversion to DWG
- B. Conversion to PNG
- C. Adding extra APs to simulate interference
- D. Calibration

Correct Answer: D

QUESTION 10

What is the best method of gathering attenuation measurements from any building materials or objects?

- A. After measuring the RSSI in free space 5 meters (16.5 feet) apart, put an AP 4 meters (13 feet) away from the wall or object on one side and your measuring device 0.67 meters (2 feet) away from the wall or object on the other side. Take measurement and compare the difference.
- B. Use the pre-built attenuation values in the predictive design tool.
- C. After measuring the RSSI in free space 1 meter (3 feet) apart, put an AP 0.32 meters (1 feet) away from the wall or object on the other side. Take measurements and compare the difference.
- D. Look on the Internet for attenuation values for each one of the materials that might attenuate the Wi-Fi signal using the material provider's websites.

Correct Answer: A

QUESTION 11

The thermal noise is at 174 dBm/Hz. A spectrum analyzer has a resolution bandwidth of 1 kHz and a 5 dB noise figure. What is the level of the noise floor?

Response:

- A. 174 dBm
- B. 139 dBm
- C. 144 dBm
- D. 204 dBm

Correct Answer: B

QUESTION 12

While configuring your site survey software for an upcoming manual survey project, you notice the configuration option for "Network Card Simulation". What is the purpose of such a feature and when would you use it?

- A. This setting allows the site survey software to convert the APs measured downlink RF data into a simulated data set as if the same data were transmitted by a specific client station. It is useful for determining uplink client performance when clients are located far from APs as well as projecting cell size for ad hoc networks.
- B. Since WLAN adapters are not typically calibrated by manufacturers, this setting is a form of software calibration in which you can calibrate an (uncalibrated) adapter to match one of the calibrated adapters shown in the list. This process improves the reliability of RF data collection and reporting when uncalibrated adapters are used.
- C. This is the configuration area in which you specify the adapter type that will be used for the site survey so that the

survey software can interpret that adapters reported metrics (based on proprietary formulas) into an RF measurement that is standardized by the survey software and known to its users. This is done

Correct Answer: A

QUESTION 13

You told your customer that multipath fading may be mitigated simply by moving one or both of the receivers antennas a small amount, usually by one to four wavelengths away from its original position. Your customer is prepared to make the change, but does not know the wavelength for 802.11ac.

What is the approximate wavelength of an 802.11ac radio wave?

- A. 5.5 cm (2.16 inches)
- B. 12 cm (4.72 inches)
- C. 15.24 cm (6 inches)
- D. 45 cm (17.71 inches)

Correct Answer: A

QUESTION 14

You and 10 other people are connected to a public hot-spot. You issue a ping sweep on the network, but you can't find any devices on the same subnet as yours. What feature might be enabled on the WLAN infrastructure that is preventing you from communicating with other devices on that subnet?

- A. Peer-to-peer blocking
- B. OSPF external routes
- C. Band steering
- D. Load balancing

Correct Answer: A

QUESTION 15

What advantage provided by 802.11n and 802.11ac is not usable in 1X1:1 low-end client devices?

- A. Channel bonding

- B. MCS data rates
- C. Maximal Ratio Combining
- D. Mandatory data rates

Correct Answer: C

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