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**QUESTION 1**

Given: Assume that music on hold (MOH) features are unicast only.

What VoWiFi implementations require multicast packet delivery support by the WLAN infrastructure?

- A. All VoWiFi implementations
- B. Push-to-Talk VoWiFi phones
- C. VoWiFi soft phones
- D. FMC phones
- E. Flat (non-VLAN) VoWiFi implementations

Correct Answer: B

QUESTION 2

Excessive uplink RTP frame retransmissions can result in . (Choose 3)

- A. Deauthentication of the transmitter by the receiver
- B. Lowering of the data transmission rate by the transmitting station
- C. MOS scores in excess of 5
- D. Head-of-Line blocking at the receiver
- E. Shortened battery life of a transmitting station
- F. Increased jitter in a VoWiFi connection

Correct Answer: BEF

QUESTION 3

Given: The 802.11n APs you have selected for your public access deployment support many of the PHY and MAC enhancements offered by the 802.11n standard. The AP is single-band (2.4 GHz) and only allows 20 MHz channels. The WLAN radio in the AP is a 3x3 802.11n chip that supports two spatial streams.

What is the maximum MCS rate that could be supported by this AP?

- A. 54 Mbps
- B. 65 Mbps
- C. 108 Mbps



D. 144 Mbps

E. 150 Mbps

F. 300 Mbps

Correct Answer: D

QUESTION 4

Given: A WLAN controller is connected to ABC Company's core layer 3 Ethernet switch with an IEEE 802.1Q trunk connection. The WLAN controller's native VLAN is VLAN 6 and its IP address is 10.0.14.2 /24. Lightweight APs supporting centralized forwarding are connected to the network on VLANs 7, 8, and 9, and they each build a layer 3 tunnel back to the WLAN controller's IP address. The dynamically assigned IP addresses received by each AP from a DHCP server will be .

A. Associated with the VLAN on which they are connected.

B. Associated with the native VLAN of the WLAN controller.

C. Associated with VLAN 1, the default VLAN for new APs

D. Associated with a non-routable VLAN until the MAC address of the AP is removed from the controller's MAC filter

Correct Answer: A

QUESTION 5

Assuming an identical RF environment,

**A**Client Tx = 13 dBm (20 mw)
Client Antenna = 2 dBiAP Tx = 16 dBm (40 mw)
AP Antenna = 9 dBi**B**Client Tx = 11 dBm (12.5 mw)
Client Antenna = 2.2 dBiAP Tx = 20 dBm (100 mw)
AP Antenna = 2.2 dBi**C**Client Tx = 10 dBm (10 mw)
Client Antenna = 5 dBiAP Tx = 16 dBm (40 mw)
AP Antenna = 3 dBi**D**Client Tx = 16 dBm (40 mw)
Client Antenna = 3 dBiAP Tx = 13 dBm (20 mw)
AP Antenna = 2.2 dBi

which one of these scenarios is most likely to lead to a client-to-AP link imbalance in which one-way communication results?

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

QUESTION 6

In a PC-based spectrum analyzer, what data chart identifies the overall RF utilization of a specific frequency in the environment being surveyed?

- A. FFT Max Hold
- B. FFT Average
- C. Swept Spectrogram
- D. Duty cycle



E. Sweep Time

F. Bandwidth resolution

Correct Answer: D

QUESTION 7

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

E. -58 dBm

Correct Answer: C

QUESTION 8

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

E. The Beacon interval

F. The PHY parameter set field

Correct Answer: B

QUESTION 9



When performing an indoor predictive site survey to make the WLAN planning and design cycle more efficient, what is a best practice for configuration of the simulated APs in the predictive modeling software?

- A. All simulated APs should be set to 20 MHz channels only.
- B. Always use the default 2.2 dBi omnidirectional antenna patterns for simulated APs.
- C. If dynamic RRM will be used, AP transmit power should be set to an estimated average level of the expected client devices, such as 25 mW.
- D. Defining custom AP and antenna patterns will yield more accurate prediction data than the pre- configured vendor AP/antenna combinations.

Correct Answer: C

QUESTION 10

You are testing a VoWLAN deployment, and your communication measurements show a certain amount of lost packets. What would be an acceptable packet error rate value to still provide acceptable call quality?

- A. There should be 0% error in a VoWLAN type of deployment
- B. No more than 1% PER max should be acceptable
- C. No more than 4% PER max should be acceptable
- D. No more than 8% PER max should be acceptable
- E. No more than 12% PER max should be acceptable

Correct Answer: B

QUESTION 11

An associated STA detects a new BSS with the same SSID as the STA's current BSS. The new BSS uses a different IP subnet than the current BSS. If the STA is configured to use 802.1X/EAP preauthentication, what is likely to occur?

- A. The STA will not attempt to preauthenticate because the new BSS uses a different IP subnet.
- B. The STA will attempt to preauthenticate, but fail because the new BSS uses a different data-link broadcast domain.
- C. The STA will attempt to preauthenticate and succeed if DHCP is supported on the new subnet.
- D. The STA will attempt to preauthenticate and succeed if IP Mobility is enabled on the AP or WLAN controller.
- E. The STA will attempt to preauthenticate and succeed if the current AP has shared its cached PMK.

Correct Answer: B

QUESTION 12



To achieve a 450 Mbps MCS, what 802.11n features (from the numbered list below) are required?

1.
Frame aggregation
 2.
Short GI
 3.
40 MHz channels
 4.
2 spatial streams
 5.
3 spatial streams
 6.
Transmit beamforming (TxBF)
- A. 1, 2, 3, 4
- B. 1, 2, 3, 5
- C. 1, 2, 3, 4, 6
- D. 1, 2, 3, 5, 6
- E. 2, 3, 4
- F. 2, 3, 5

Correct Answer: F

QUESTION 13

In a centralized WLAN architecture, what new problem may arise when you change the data forwarding model from centralized to distributed? (Choose 2)

- A. APs that were designed for a centralized forwarding model may not support all features in distributed forwarding mode.
- B. Centralized control functions, such as key management and distribution, RRM, and load balancing will no longer be supported.
- 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. The Ethernet switch ports to which APs are connected may need to be reconfigured to support VLAN tagging and QoS at the network edge.

E. APs will not have the processing capabilities to support AES-CCMP, so TKIP will be the recommended encryption method.

Correct Answer: AD

QUESTION 14

What RF math formula should be used to convert an RF value in units of dBm into a value of mW?

*NotE. "dBm" in the formulas represents the known dBm value

A. $mW = 10^{(dBm/10)}$

B. mW

C. mW

D. mW

E. mW

F. $mW =$

Correct Answer: A

QUESTION 15

After surveying for the ideal mounting locations for APs, you have been asked to compromise RF propagation optimization due to aesthetic concerns raised by your customer. In the end, you've decided to mount the APs in the ideal locations and paint the APs so they go unnoticed in the environment.

What is a valid recommendation or consideration when painting APs? (Choose 2)

A. Always use paints with metallic dye in them to prevent potential RF propagation impact.

B. Do not paint the notification LEDs on the AP, but configure them to be dim or turned off altogether until troubleshooting is required.

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.

E. Painting APs always introduces a fire and gas emissions hazard and should be avoided for all indoor APs.

Correct Answer: BC



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