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PW0-300

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QUESTION: 1
Given: An ingress frame arrives on the Ethernet port of an autonomous AP marked with an IEEE 802.1D user priority value.

Which IEEE 802.1D user priority values (by name) will assure the data payload carried by the Ethernet frame gets assigned to the highest priority WMM queue?

A. Controlled Load
B. Network Control
C. Video
D. Voice
E. Best Effort
F. Excellent Effort

Answer: B, D

QUESTION: 2
Given: When the delayed Block Ack policy is used between two QoS STAs, the recipient must respond to a BlockAckReq frame with an ACK frame. The recipient must then send its BlockAck response frame in a subsequently obtained TXOP.

Once the contents of the BlockAck frame have been prepared, the recipient must _____.

A. Send the BlockAck response frame to the originator in the earliest possible TXOP using the highest priority AC.

B. Send an ATIM to the originator signifying that the BlockAck response frame is ready for transmission.

C. Include the TID of the BlockAckReq in the next TXOP Request to the HC.

D. Wait for one PIFS after the next Beacon and transmit the BlockAck response to the originator using the same AC as the BlockAckReq frame.

Answer: A

QUESTION: 3
When using a protocol analyzer to capture conversations over a WLAN, you may often encounter encrypted data frames. Most WLAN protocol analyzers have a feature that allows the analyst to save and reload the captured frames into memory at a later time.

Using this functionality, what task can be performed?

A. When IEEE 802.1X/LEAP is being used as the WLAN security mechanism, the authentication response frame can be replayed from a saved trace file at a later time to successfully authenticate a hacker.

B. If a user name and password for an IEEE 802.1X/EAP-TTLS security implementation can be obtained through social engineering tactics, the user name and password can be entered into the analyzer to decrypt the frames from a saved trace file.

C. An analyst can search through the captured frames looking for RADIUS frames that will disclose the users password.

D. Encrypted frames may be decrypted offline, after they are captured, by entering a WEP key or WPA passphrase into the analyzer.

Answer: D

QUESTION: 4
Given:

ABC Company is implementing a QoS enabled infrastructure that will support both voice and data.
The WLAN controller is connected to one of three core layer-3 Ethernet switches. Each core layer-3 Ethernet switch has multiple edge layer-2 Ethernet switches attached. Lightweight APs are connected to all edge layer-2 Ethernet switches. The WLAN controller is on subnet 10.1.1.0/24, and the APs are on numerous other subnets. The APs are connected to the WLAN controller via LWAPP tunnels.

When IEEE 802.11 frames arrive at a lightweight AP from a QoS STA that need to be sent to the WLAN controller, which bits can the AP mark to signal the layer-2 and layer-3 Ethernet switches to use higher priority processing?

A. The Ethernet frame's 802.1Q priority tag bits
B. The IP header's TOS bits
C. The IEEE 802.11 frame's QoS Control bits
D. The LWAPP header's C bit
E. The UDP header's PRI bits

Answer: A, B

QUESTION: 5
Which statement is FALSE regarding use of admission control in a QoS BSS?

A. The IEEE 802.11 QoS facility implements a single admission control mechanism for use in contention-free periods (CFPs) and contention periods (CPs).

B. The ACM bit is static for the duration of the lifetime of a BSS.

C. If a QoS STA desires to send data without admission control using an access category (AC) that mandates admission control, the QoS STA will use a lower priority AC that does not use admission control.

D. A QoS AP uses ACM subfields in the EDCA Parameter Set element to indicate admission control requirements for each access category (AC).

E. A hybrid coordinator may enforce admission control policies during both contention-free periods (CFPs) and contention periods (CPs).

Answer: A

QUESTION: 6

XYZ Corporation is renting space in a multi-tenant office building and has recently installed a new ERP WLAN in their office. The network administrator has very little experience with WLANs, and has recently purchased a WLAN protocol analyzer for diagnostic use. He has attended a wireless administration class and understands basic WLAN operation. During the course of troubleshooting a performance problem, the administrator cannot understand why he is seeing ATIM frames, CF-End frames, and PS-Poll frames on channel 2 all at the same time. You are hired by the administrator as a consultant to explain why this is happening.

Which explanations are plausible?

A. XYZ Corp's WLAN is using channels 1, 6, and 11. The frames the administrator is seeing while capturing on channel 2 are corrupted frame fragments that the analyzer is attempting to interpret.

B. Seeing ATIM frames, CF-End frames, and PS-Poll frames in the same capture is normal. Seeing these frames together means that Power Save mode is in use on an Ad Hoc network.

C. XYZ Corp's WLAN is using channels 1, 2, and 3. This design is causing adjacent channel interference, which is corrupting ERP-OFDM modulated frames. The analyzer is seeing this frame corruption and reporting the frames as it sees them.

D. XYZ Corp's infrastructure WLAN is using channel 2, and their neighbors in the same building are running Ad Hoc networks on channel 2 as well.

Answer: A, C

QUESTION: 7

Choose the true statements regarding wireless network discovery processes for an HR-DSSS network.

A. Client stations may continually send Probe Request frames on all HR-DSSS channels in the 2.4 GHz ISM band in a consecutive manner, regardless of their association state.

B. Access points send Beacon frames on all HR-DSSS channels in the 2.4 GHz ISM band in a consecutive manner including the channel for which the access point is configured.

C. Client stations send Probe Request frames on all HR-DSSS channels in the 2.4 GHz ISM band in a consecutive manner until they associate with an access point. After associating to an access point, they are no longer allowed to transmit Probe Request frames.

D. Access points send Beacon frames only on the HR-DSSS channel in the 2.4 GHz ISM band for which the access point is configured.

E. Client stations send Probe Request frames on all HR-DSSS channels in the 2.4 GHz ISM band in a consecutive manner until they receive at least 3 Probe Response frames.

Answer: A, D

QUESTION: 8

Which statements must be true before an IEEE 802.11 station may transmit a Data frame on the RF medium using DCF?

A. The Network Allocation Vector must be equal to zero.
B. A time period of at least PIFS must have passed.
C. The station must have received a PS-Poll frame from the access point.
D. The Back off Timer must be equal to zero.
E. The channel has been inactive for at least DIFS.
F. All collision detection must be completed on the RF medium.

Answer: A, D, E

QUESTION: 9
Given:

ABC Company has recently installed its first access point. The access point is an ERP unit, and both ERP and HR-DSSS client stations will be used on the wireless network simultaneously. The network administrator has appropriately configured the access point and all of the company's HR-DSSS wireless client stations to use short preambles for CCK transmissions. A visitor begins using a Personal Data Assistant (PDA) with an integrated HR-DSSS radio configured for use of long preambles on ABC's wireless network.

Which statement describes what the network administrator will see with a wireless protocol analyzer?

A. Once the visitor's PDA is associated to the access point, all HR-DSSS stations associated to the access point will begin using long preambles.

B. The visitor's PDA will not be able to associate to the wireless network, and it will cause significant interference for other wireless stations.

C. The visitor's PDA will communicate with the access point using long preambles, and the access point will communicate with all other client stations using short preambles.

D. The visitor's PDA will associate to the access point using MMPDUs with long preambles, but then begin sending Data frames using short preambles since Data frames cannot use long preambles.

Answer: A

QUESTION: 10
WMM-PS trigger frames can be what type of IEEE 802.11 frames?

A. QoS Null
B. QoS + CF-Poll
C. QoS Data
D. CTS
E. PS-Poll
F. Re-association

Answer: A, C