



PW0-300
Wireless LAN Expert

Exam number/code: PW0-300
Exam name: Wireless LAN Expert
Questions & Answers: 141 Q&A
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Exam: PW0-300 Certification Questions & Answers

Question 1:

Referencing this decode of an HR-DSSS frame, choose the statement that could be true:

Exhibit:

```
network media info
- timestamp : 5/15 22:18:07.161030
- signal strength : 98% (-36 dBm)
- noise level : 0% (-95 dBm)
- frame length : 56
- data rate : 1 mbps
- channel : 6
- CRC error : no
- 802.11 MAC header
  - frame control
    - protocol version : 0
    - frame type :
    - subtype :
    - to DS : 0
    - from DS : 0
    - power management : 0
    - more data : 0
    - WEP : 0
    - order : 0
  - duration : 0 usec
  - dest addr : FF:FF:FF:FF:FF:FF
  - src addr : 00:09:5B:66:E6:09
  - bssid : FF:FF:FF:FF:FF:FF
```

- A. This frame was sent from one access point to another access point along a wireless distribution system
- B. This frame was sent to a wireless client station from a node on the wired segment and WEP was not used
- C. This frame was sent from a wireless client station to request information about BSSs within range
- D. This frame was the first fragment in a series of 3 fragments (as part of a fragment burst) sent from a wireless client station to a station on the wired network

E. This frame was sent from a wireless client station to an access point for the purpose of managing the access point's configuration

Answer: C

Question 2:

Given the IEEE 802.11 frame decode shown, which statements are true?

Exhibit:



- A. The frame in the decode is an MMPDU
- B. The MSDU was successfully encrypted with WEP
- C. The frame is a layer 2 broadcast
- D. The 44ec duration value is sufficient to cover the SIFS and ACK to follow
- E. The frame is the last fragment in a sequence of 3 fragments

Answer: B,D

Question 3:

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

- A. 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
- B. 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
- C. Client stations send Probe Request frames on all HR-DSSS channels in the .24 GHz ISM band in a consecutive manner until they receive at least 3 Probe Response frames

- D. 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 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 associate with an access point. After associating to an access point, they are no longer allowed to transmit Probe Request frames

Answer: A,B

Question 4:

Which statements regarding an IEEE 802.11 Channel Switch Announcement frame are true?

- A. Channel switch announcement frames are the only place where the channel switch announcement element is found
- B. Channel switch announcement frames carry information elements from an AP to a STA in a BSS
- C. Channel Switch Announcement frames use the Action frame body format
- D. Channel switch announcement frames must be transmitted immediately following a DTIM Beacon so that dozing stations will receive the channel switch information
- E. Channel Switch Announcement frames are transmitted after the wireless medium has been idle for a PIFS

Answer: B,C

Question 5:

What is the duration of the Slot Time specified by the IEEE 802.11 standard for the Clause 17 (OFDM) PHY?

- A. 5
- B. 9
- C. 10
- D. 20
- E. 50

Answer: B

Question 6:

What operation immediately follows an internal collision between two EDCAFs on an IEEE 802.11 QoS STA?

- A. The EDCAF of higher priority transmits its frame.
- B. Each EDCAF begins a newbackoff procedure.
- C. The EDCAF of lower priority sets the retry bit to 1.
- D. An EDCAF frame burst starting with the higher priority frame.

Answer: A

Question 7:

A QoS STA obtains a TXOP for an access category (AC) after what two parameters are met?

- A. After a Block ACK Response

- B. After a scheduled service period ends
- C. The medium is idle at the AIFS[AC] slot boundary
- D. After a Target Beacon Transmission Time (TBTT)
- E. The backoff time for that AC has expired

Answer: C,E

Question 8:

A process called preauthentication is specified by the IEEE 802.11 standard (as amended). Preauthentication is implemented by some vendors and involves a client station performing what task?

- A. Authenticating with an Independent Basic Service Set and an Extended Service Set simultaneously.
- B. Authenticating to additional Basic Service Sets through the distribution system while maintaining an association to only one access point at a time.
- C. Reassociating to the Extended Service Set through a second access point just prior to deauthenticating the existing access point.
- D. Associating to multiple Basic Service Sets simultaneously using the PeerKey function.

Answer: B

Question 9:

Given: An EDCA QoS BSS is operating as a Robust Security Network (RSN). Two QoS STAs in the QoS BSS are using a Direct Link to communicate.

When the RTS/CTS threshold is exceeded for a frame to be transmitted between the two QoS STAs, what is the frame exchange sequence, including interframe spaces?

- A. AIFS-RTS-SIFS-CTS-SIFS-DATA-SIFS-ACK
- B. AIFS-RTS-SIFS-CTS-DIFS-DATA-SIFS-ACK
- C. DIFS-RTS-CTS-SIFS-DATA-SIFS-ACK
- D. RIFS-RTS-SIFS-CTS-SIFS-DATA-SIFS-ACK
- E. DIFS-RTS-SIFS-ACK-SIFS-CTS-SIFS-ACK-SIFS-DATA-SIFS-ACK

Answer: A

Question 10:

When the To DS bit is set to 1 and the From DS bit is set to 0 in the frame control field of an IEEE 802.11 data frame, what might this indicate about the infrastructure and the wireless conversation?

- A. A wireless client station could be sending data to a wired station through an access point
- B. A wireless client station must be sending data directly to the access point for the purpose of managing the access point
- C. A wireless client station could be sending data to a wireless client station across an access point
- D. A wireless client station could be sending data directly to another wireless client station as part of a QoS BSS direct link
- E. A wireless client station must be sending data to a wireless station where the frame has to transverse a Wireless Distribution System (WDS)

Answer: A,C

Question 11:

Given: TestKing.com 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?

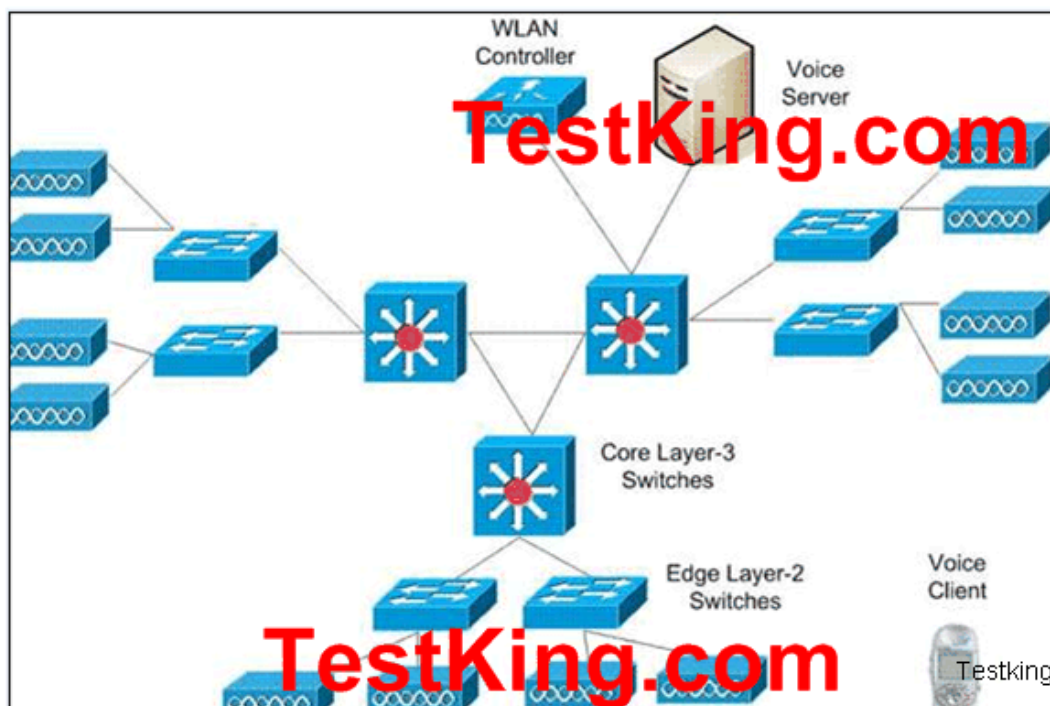
- A. Once the visitor's PDA is associated to the access point, all HR-DSSS stations associated to the access point will be using long preambles
- B. The visitor's PDA will communicate with the access point using long preambles and the access point will communicate with all other client stations using short preambles
- C. The visitor's PDA will not be able to associate to the wireless network and it will cause significant interference for other wireless stations
- 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 can't use long preambles

Answer: A

Question 12:

Given: TestKing.com is implementing a QoS enabled infrastructure that will support both voice and data. Their 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 GRE tunnels.

Exhibit:



When a data packet is sourced at the voice client destined to the voice server, which devices along the path transmit frames with IEEE 802.1Q priority tags?

- A. Edge switch, core switches
- B. Voice Client, AP, WLAN controller
- C. Edge switches, core switches, WLAN controller
- D. AP, Core Switches, WLAN controller
- E. Voice Client

Answer: C

Question 13:

Given: TestKing.com 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 IEEE 802.11 frame's QoS control bits
- B. The IP Header's TOS bits
- C. The Ethernet Frame's 802.1Q priority tag bits
- D. The LWAPP header's C bit

Answer: B,C

Question 14:

An IEEE 802.11 QoS Data (subtype value 1000) frame may have a maximum header size of how many octets?

- A. 28
- B. 30
- C. 32
- D. 36
- E. 40

Answer: C

Question 15:

Using an IEEE 802.11 protocol analyzer, you have determined that the retransmission rate is higher than your baseline. What further troubleshooting step can an administrator take to determine if the retransmissions are negatively affecting the wVoIP receiver?

- A. Place a spectrum analyzer near the receiver and look for high signal strength dashes placed horizontally across the swept spectrogram.
- B. Manually increase the jitter buffer on the receivingwVoIP device to see if the voice quality changes.
- C. Using awVoIP protocol analyzer, set a one-way filter on the MAC address of the wVoIP receiver and look at the delta time between arriving frames.
- D. Monitor the WIPS for Head-of-Line blocking at thewVoIP receiver.
- E. In thewVoIP VLAN, modify the AC from AC_VO to AC_BE to see if the problem is QoS-centric or RF-related.
- F. Configure twowVoIP phones identically except for channel assignment, then compare retransmission count values.

Answer: C

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