PW0-270^{Q&As}

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QUESTION 1

Shown is a screenshot of a wireless protocol analyzer displaying the decode information for a single 802.11 encrypted data + CF-Poll frame. The infrastructure BSS on which this information was captured is using WEP and this particular frame was sent from a client station (STA) to an access point (AP).

No	CH	Len	Ⓢ	✦	Source	Dest	Summary
162	6	64	75	11	Askey:5C:D7:D3	Symbol:A2:16:8C	802.11 encrypted data + CF-Poll

```
⊟ network media info
      timestamp : 2/8 20:06:57.113562
      signal strength : 75% (-50 dBm)
      noise level : 0% (-95 dBm)
      frame length : 64
      data rate : 11 mbps
      channel : 6
      CRC error : yes
⊟ 802.11 MAC header
   ⊟ frame control
         protocol version : 2
         frame type : data
         subtype : data + CF-Poll
         to DS : 0
         from DS : 0
         more frag : 0
         retry : 0
         power management : 0
         more data : 0
         WEP : 1
         order : 0
      duration : 117 usec
      dest addr : 00:A0:F8:A2:16:8C
      src  addr : 00:90:96:5C:D7:D3
      bssid : FF:FF:55:DA:CF:FE
      frag number : 0
      seq number : 1018
⊞ 802.11 encrypted frame body
```

As a protocol analyst, how would you explain the existence of this frame on the wireless medium given the information in the decode?

A. The IEEE 802.11 network is using both version 1 and version 2 protocols simultaneously. This unexpected frame is from the version 2 protocol set.

B. The frame was sent by a client station that does not comply with IEEE HR/DSSS standard to an access point that is Wi-Fi certified.

C. The access point is operating as a repeater, and clients must poll repeater access points in order to transmit data frames through them.

D. The frame was misinterpreted because of insufficient information received by the analyzer due to frame corruption.

Correct Answer: D

QUESTION 2

What is the purpose of a PHY preamble?

A. It provides the receiver(s) with an opportunity for RF channel synchronization prior to the start of the PLCP header.

B. It communicates important information about the PSDU\\'s length, rate, and upper layer protocol- related parameters.

C. It provides a cyclic redundancy check (CRC) for the receiving station to validate that the PLCP header was received correctly.

D. It indicates to the PHY the modulation that shall be used for transmission (and reception) of the PSDU.

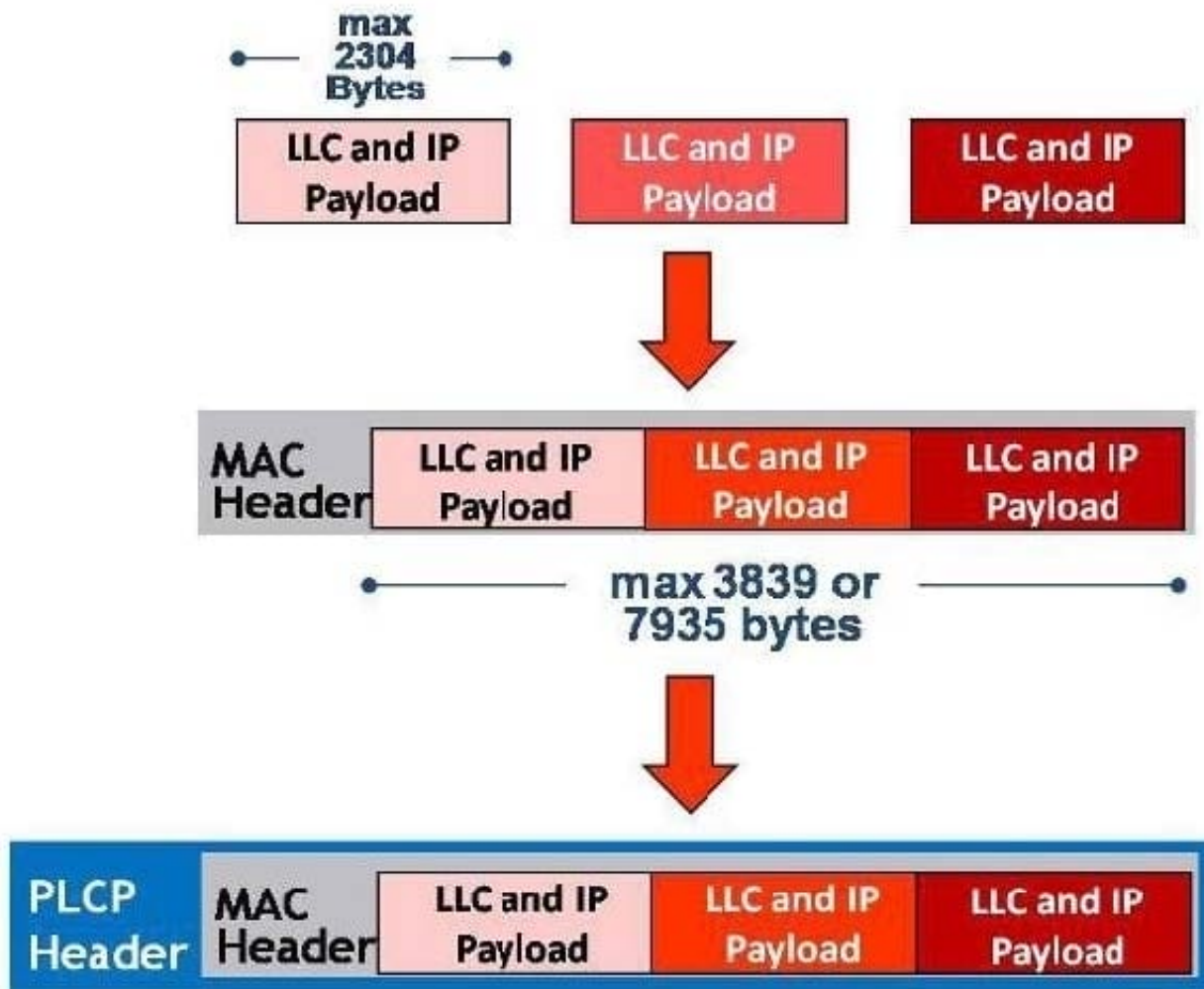Correct Answer: A

QUESTION 3

In an HT WLAN in which a delayed Block Ack policy is set up, what should result when an ACK frame is not received by the originator in response to a Basic BlockAckReq?

A. All frames within that block must be retransmitted by the originator.

B. The last frame within that block must be retransmitted by the originator.

C. The BlockAckReq must be retransmitted by the originator.

D. Nothing. No ACK is expected in response to a Basic BlockAckReq.

Correct Answer: C

QUESTION 4

What IEEE 802.11 technology is illustrated by the exhibit?

A. Fragmentation

B. TCP Fragment Bursting

C. A-MSDU

D. A-MPDU

E. U-APSD

F. Jumbo frames

Correct Answer: C

QUESTION 5

An HT STA does not receive an ACK for a first-attempt data frame that it transmitted. Assuming this STA is not using BlockAcks in this case, what happens to the HT STA\\'s EDCA contention window?

A. The slot time within the contention window decreases by 50%.

B. It varies because the backoff algorithm is random.

C. The contention window approximately doubles in size.

D. The contention window is not affected by failed Data frame delivery.

E. The contention window is immediately closed, and the frame is retransmitted.

Correct Answer: C

QUESTION 6

What is indicated to a QoS AP when a QoS STA sets U-APSD Flag bits to 1 in (Re) Association frames?

A. Which access categories are both trigger-enabled and delivery-enabled

B. Which user priorities require use of a TSPEC

C. Which access categories require admission control

D. Which user priorities are mapped to access categories

E. Which access categories are scheduled

Correct Answer: A

QUESTION 7

Using the exhibit as a reference, answer the following.

File Server
MAC: 00:11:22:33:44:55
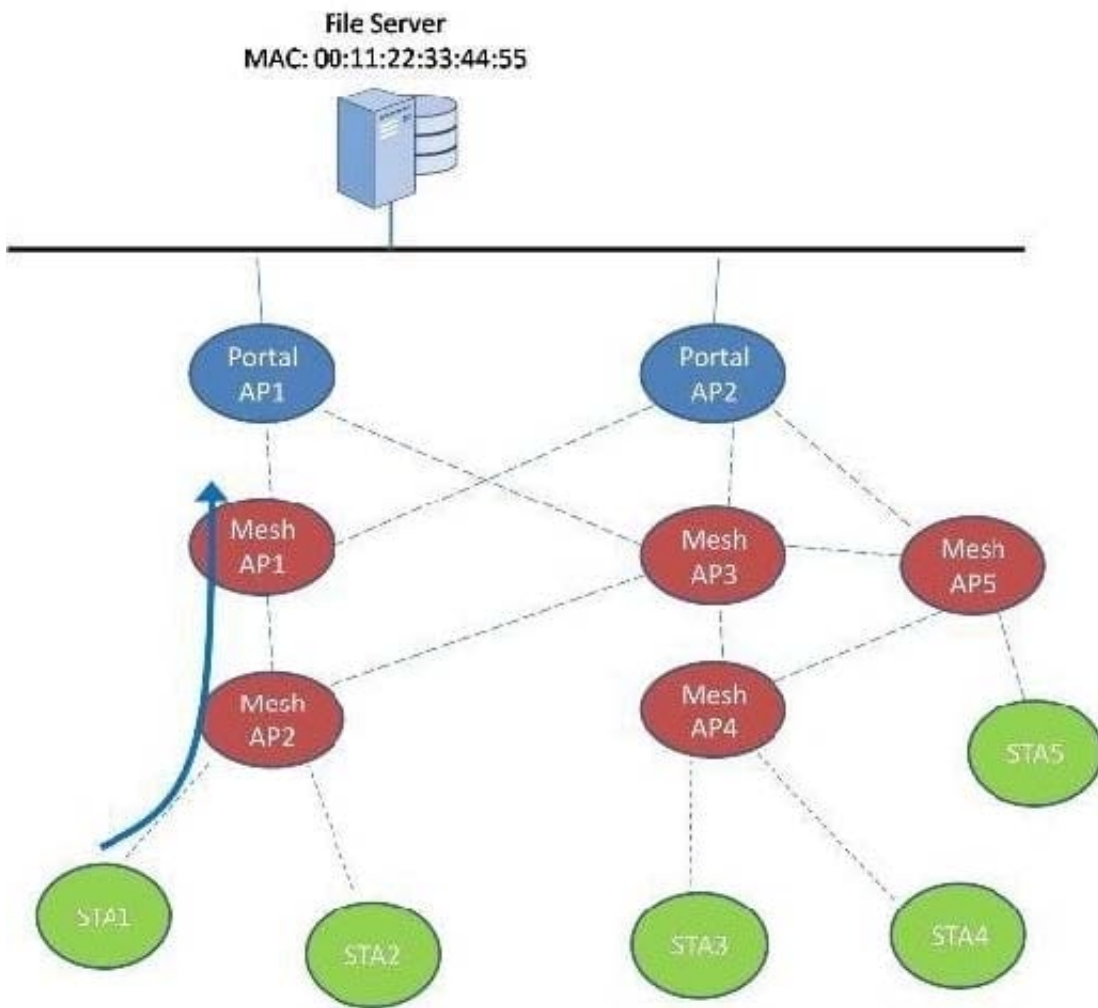
STA1 sent a data frame to Mesh AP2 destined for a local file server on the same subnet with MAC address 00:11:22:33:44:55. Mesh AP2\\'s mesh forwarding algorithm determined that the frame should be forwarded through Mesh AP1.

In the frame sent from Mesh AP2 to Mesh AP1, what is true of the contents of the MAC header? (Choose 3)

A. SA = Mesh AP2\\'s MAC Address

B. RA = Mesh AP1\\'s MAC Address

C. TA = STA1\\'s MAC Address

D. DA = 00:11:22:33:44:55

E. To DS = 0

F. From DS = 1

Correct Answer: BDF

QUESTION 8

Your wireless network troubleshooting kit includes an antenna with the following specifications:

Gain: 5 dBi Azimuth Beamwidth: 55 degrees Elevation Beamwidth: 50 degrees Frequency Range: 2.4 - 2.5 GHz and 4.9 - 5.9 GHz Polarization: Linear Impedance: 50 Ohms

For what aspect of network troubleshooting would this antenna be most useful?

A. Capturing BSS-wide CRC error and retry statistics in most indoor WLAN environments

B. Identifying problems with Fresnel zone clearance in long range (10+ miles / 16+ km) point-to-point links

C. Finding the physical location of an interfering transmitter to identify and remove the source

D. Increasing resolution bandwidth (RBW) on a spectrum analyzer to improve signature identification features

E. Matching transmit and receive capabilities for most client stations to reproduce client reception issues

Correct Answer: C

QUESTION 9

Given: ABC Company recorded the 2.4 GHz band with a spectrum analyzer prior to installing their ERP WLAN. Image-A is how the band appeared prior to the WLAN installation. Image-B is how the band appears now, and all channels on their WLAN have ceased to function.
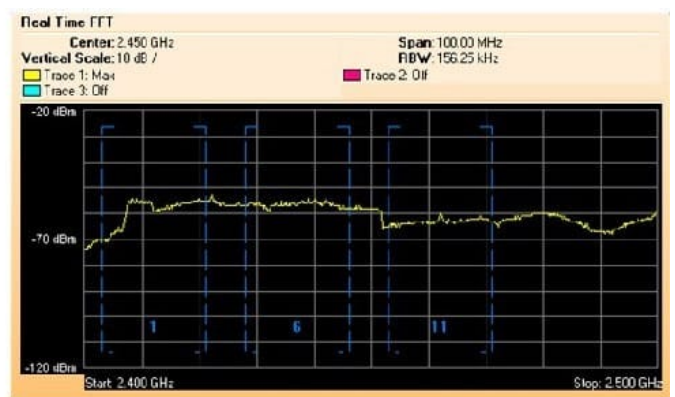

Image A

Image B

What is the best explanation as to why their WLAN is no longer functioning properly?

A. A wideband RF power source is corrupting all IEEE 802.11 transmissions.

B. A new microwave oven was installed in the cafeteria.

C. A malfunctioning IEEE 802.11 OFDM radio card is transmitting continuously.

D. A manual site survey tool is actively testing the throughput of their WLAN.

E. A Terminal Doppler Weather Radar (TDWR) is causing a DFS response across the entire band.

Correct Answer: A

QUESTION 10

Given the IEEE 802.11 Beacon frame decode shown,

determine which statement is definitively true.

A. The access point is operating on channel 3.

B. The access point has both 1 Mbps and 2 Mbps configured as basic rates.

C. This Beacon frame came from an ERP or HT access point.

D. The SSID value in this Beacon is null.

E. ERP mobile stations must use the RTS/CTS protocol before Data transmissions.

Correct Answer: C

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