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QUESTION 1

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.

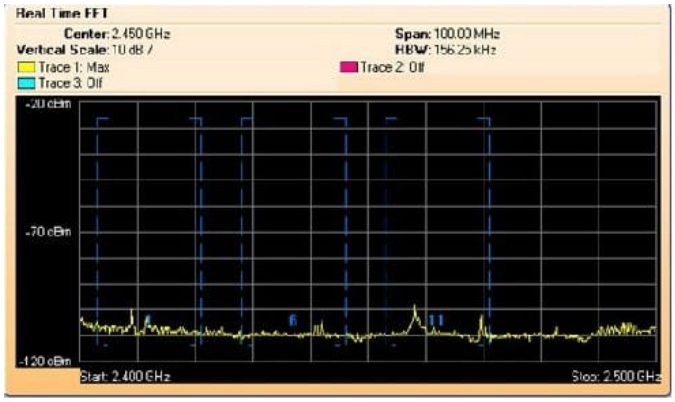


Image A

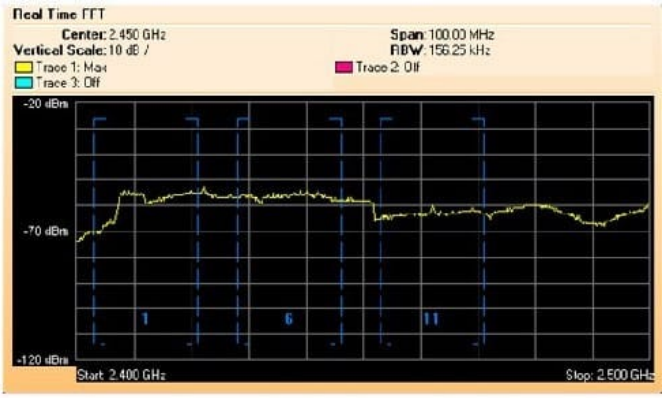


Image B

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 2

What must occur before an HT STA operating in an EDCA BSS can transmit a data frame over the wireless medium? (Choose 3) A. Its NAV must be equal to one.

B. The STA must receive a BlockAck, resetting the NAV to zero.

C. The appropriate interframe space must expire.

D. The backoff timer for the AC must equal zero.

E. Its CCA must report that the medium is idle.

F. The AP must issue the STA a TXOP.

Correct Answer: CDE

QUESTION 3

While at a government-operated facility, you are attempting to troubleshoot a WLAN performance problem using a wireless protocol analyzer. When you start capturing frames, you see a proprietary layer 2 protocol running over the ERP network as shown in this screenshot. The facility\\'s WLAN administrator confirms that this protocol is proprietary and used for both data encryption and compression.

Packet	Source Physical	Dest. Physical	BSSID	Data Rate	Size	Protocol
126	00:09:5B:66:E6:11	00:C0:9F:09:81:32	00:0D:ED:A5:4F:70	54.0	158	SNAP-00-00-00-88-95
127	00:0D:ED:A5:4F:70	00:09:5B:66:E6:11		24.0	14	802.11 Ack
128	00:C0:9F:09:81:32	00:09:5B:66:E6:11	00:0D:ED:A5:4F:70	54.0	158	SNAP-00-00-00-88-95
129	00:09:5B:66:E6:11	00:0D:ED:A5:4F:70		24.0	14	802.11 Ack
130	00:09:5B:66:E6:11	00:C0:9F:09:81:32	00:0D:ED:A5:4F:70	54.0	158	SNAP-00-00-00-88-95
131	00:0D:ED:A5:4F:70	00:09:5B:66:E6:11		24.0	14	802.11 Ack
132	00:C0:9F:09:81:32	00:09:5B:66:E6:11	00:0D:ED:A5:4F:70	54.0	158	SNAP-00-00-00-88-95
133	00:09:5B:66:E6:11	00:0D:ED:A5:4F:70		24.0	14	802.11 Ack
134	00:09:5B:66:E6:11	00:C0:9F:09:81:32	00:0D:ED:A5:4F:70	54.0	158	SNAP-00-00-00-88-95
135	00:0D:ED:A5:4F:70	00:09:5B:66:E6:11		24.0	14	802.11 Ack
136	00:C0:9F:09:81:32	00:09:5B:66:E6:11	00:0D:ED:A5:4F:70	54.0	158	SNAP-00-00-00-88-95
137	00:09:5B:66:E6:11	00:0D:ED:A5:4F:70		24.0	14	802.11 Ack

How will this information affect the steps you take to troubleshoot performance problems on this WLAN?

A. The proprietary encryption protocol will have no effect on your troubleshooting steps because the wireless protocol analyzer can still decode the PLCP and MAC headers of Data frames. This situation is essentially no different than troubleshooting a WLAN that uses WPA2-Personal.

B. Troubleshooting will be somewhat limited because only part of the information needed for performance measurements by the analyzer is encrypted. Each Data frame\\'s MAC header will be encrypted, but the PLCP header can still be decoded successfully.

C. As long as you load the proprietary software codec onto your analyzer computer, you will be able to see all of the Data frame information fully decoded. Loading the proprietary software codec will allow you to troubleshoot the WLAN as though no encryption were in use.

D. In order to troubleshoot performance problems on a network using proprietary encryption protocols like this one, you must use a wireless protocol analyzer that has integrated support for the protocol in use.

Correct Answer: A

QUESTION 4

ABC Company\\'s WLAN administrator is getting complaints from one user that his WLAN throughput is sluggish compared to other users in his area. The administrator takes his diagnostics laptop, which has a wireless protocol analyzer installed, to the area where the complaining user works. The administrator uses the PING utility to test connectivity from the complaining user\\'s wireless client station to another wireless client station across the closest access point, while capturing the wireless frames. The administrator sees what is displayed in this screenshot.

Packet	Source Physical	Dest. Physical	BSSID	Channel	Data Rate	Size	Protocol
59	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
60	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
61	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
62	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
63	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	PING Req
64	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
65	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
66	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
67	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
68	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
69	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	260	802.11 Frag
70	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
71	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	11.0	136	802.11 Frag
72	00:0D:ED:A5:47:70	00:09:5B:66:E6:80		6	11.0	14	802.11 Ack
73	00:0D:ED:A5:47:70	00:09:5B:66:E6:08		6	11.0	20	802.11 RTS
74	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70		6	11.0	14	802.11 CTS
75	00:09:5B:66:E6:80	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70	6	54.0	1064	PING Req
76	00:09:5B:66:E6:08	00:0D:ED:A5:4F:70		6	24.0	14	802.11 Ack
77		00:09:5B:66:E6:08		6	11.0	14	802.11 CTS
78	00:09:5B:66:E6:90	23:BD:1D:66:E6:80	00:0D:ED:A5:4F:70	6	54.0	1064	PING Reply
79		00:09:5B:66:E6:08		6	24.0	14	802.11 Ack
80	00:09:5B:66:E6:08	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70	6	11.0	1064	PING Reply
81	00:09:5B:66:E6:80	00:0D:ED:A5:4F:70		6	11.0	14	802.11 Ack
82	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
83	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
84	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon
85	00:0D:ED:A5:47:70	FF:FF:FF:FF:FF:FF	00:0D:ED:A5:4F:70	6	1.0	137	802.11 Beacon

From this screenshot, which statements can you conclude to be TRUE that are related to the complaining user\\'s throughput problem? (Choose 2)

A. The complaining user\\'s WLAN client utilities are configured with a small fragmentation threshold.

B. The complaining user\\'s station is retransmitting fragments many times likely due to nearby RF interference.

C. The access point and other stations are using ERP-OFDM modulation, and the complaining user\\'s wireless client station is using HR/DSSS modulation.

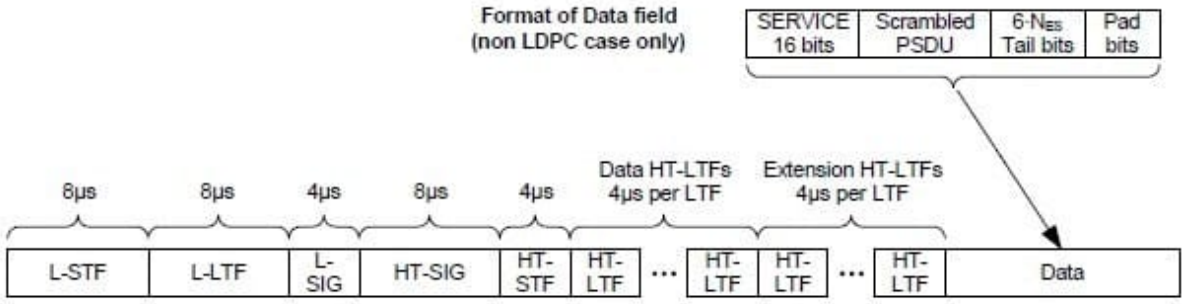
D. The complaining user\\'s wireless client station should be using RTS/CTS as a protection mechanism, but it is not.

E. The access point is not signaling for protection (Protection = no) in the Beacons, but it should be.

Correct Answer: AC

QUESTION 5

What HT PPDU format is shown in the exhibit?



A. HT-mixed format

B. HT-greenfield format

C. Non-HT format

D. Non-HT duplicate format

E. Dual Training Field format

F. ERP-OFDM format

Correct Answer: A

QUESTION 6

When a client station operating under EDCA sends an RTS frame and NAV protection is desired for only the first or sole frame in the TXOP, the duration field will contain an amount of time, measured in microseconds, equal to which of the following?

A. 1 RTS, 2 ACK, 1 DATA, 4 SIFS

B. 1 CTS, 1 ACK, 1 DATA, 3 SIFS

C. 1 RTS, 1 ACK, 1 DATA, 2 SIFS, 1 DIFS

D. 1 RTS, 1 CTS, 2 ACK , 1 DATA, 4 SIFS

E. 1 CTS, 2 ACK, 1 DATA, 2 SIFS

F. The entire duration of the TXOP

Correct Answer: B

QUESTION 7

Which statements are true regarding frame acknowledgement in an IEEE 802.11 WLAN? (Choose 3)

A. Following non-QoS Data frames with the More Fragments bit set to 1, the Duration/ID field of the ACK frame is set to

a value equal to two SIFS plus the next Data fragment and its ACK.

B. A client station\\'s Reassociation Request frames are only acknowledged with a Reassociation Response from the access point and not with an ACK frame.

C. Probe request acknowledgement (sending of a Probe Response frame) is configurable in the access point and is always linked to SSID broadcast configuration in Beacons.

D. In an EDCA BSS, encrypted Data frames are only acknowledged by client stations, never by access points.

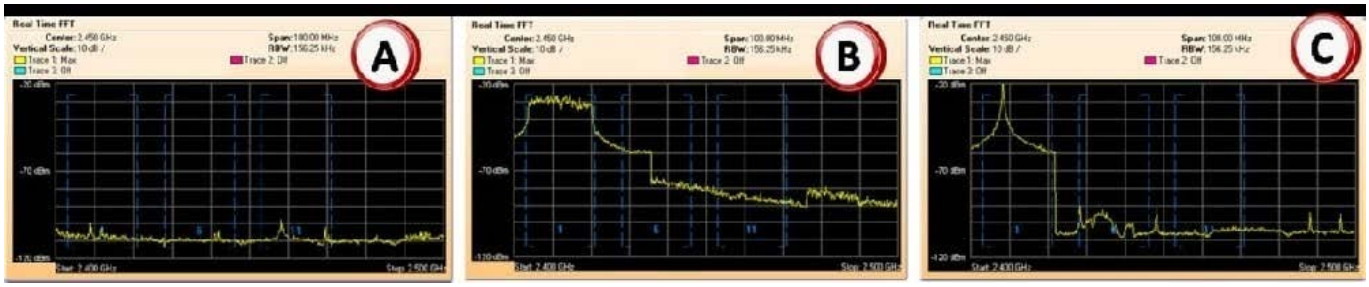
E. Data frame fragments are acknowledged individually (with an ACK frame).

F. The RA field of ACK frames is always obtained from the Address 2 field in the corresponding frame being acknowledged.

Correct Answer: AEF

QUESTION 8

Given: Before installing a Wi-Fi network, ABC Company performed a spectrum analysis looking for problems. The 2.4 GHz RF spectrum looked like Image-A. After installing an ERP WLAN, ABC Company performed another spectrum analysis during business hours. The 2.4 GHz RF spectrum then looked like Image-B close to an AP on channel 1.



Now the 2.4 GHz RF spectrum looks like Image-C and access points and clients can no longer communicate on channel 1. What is happening on channel 1?

A. The access point\\'s antenna connectors have been tampered with, causing "spike and shear" RF transmissions that are not compatible with the OFDM PHY format. For that reason, client devices cannot receive the AP\\'s transmissions without error.

B. A high-power, narrowband RF interference source on channel 1 is causing the CCA energydetects(ED) function on 802.11 devices to indicate a busy medium because the signal source is above the ED threshold.

C. Stronger transmissions from licensed 2.4 GHz users, such as HAM operators, are compressing the transmissions from the channel 1 access points into the lower portion of the band.

D. The shape of the signals in images B and C indicates that a licensed user in this frequency range has enabled the "guard bands" in an effort to restrict local interference with other systems.

E. Detection of a DFS radar event has discontinued 802.11 operation on channel 1, but the access point\\'s Channel Switch Announcement frame cannot be sent due to the presence of radar.

Correct Answer: B

QUESTION 9

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

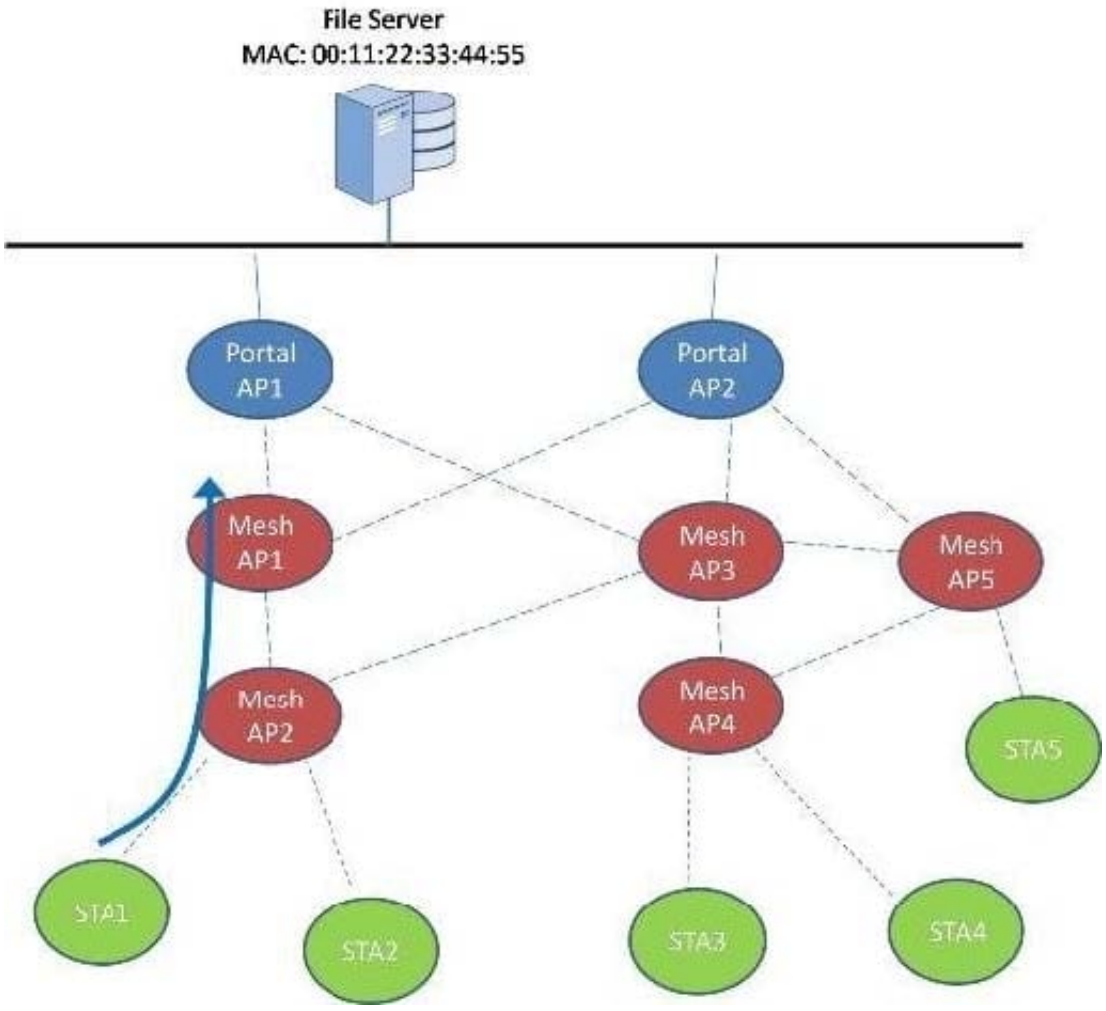
D. Which user priorities are mapped to access categories

E. Which access categories are scheduled

Correct Answer: A

QUESTION 10

Using the exhibit as a reference, answer the following.



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