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QUESTION 1

Which parameters accurately describe the Beacon Interval field in the Beacon frame? (Choose 2)

A. Value can range from 0 to 2007

B. 4-octet length

C. Indicates the exact time interval between Beacon transmissions

D. Indicates the desired time interval between TBTTs

E. Measured in time units of 1024 ?

Correct Answer: DE

QUESTION 2

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 3

Which statement accurately describes IEEE 802.11 Power Save operation in a Basic Service Set that does not support the QoS facility?

A. Following a period of time in a low power state, client stations wake themselves and automatically poll the access point for traffic using a PS-Poll frame.

B. When the access point\\'s buffer is full, the access point wakes all client stations using a PS-Poll frame so that they can receive the data.

C. Upon receiving traffic for a dozing station, the access point wakes the client station using a PS-Poll frame so that the client station can receive the data.

D. After waking from a low power state, client stations listen for the next Beacon to determine if sending a PS-Poll frame to the access point is necessary.

E. After waking at a scheduled TBTT, client stations send Null Function frames to the access point with the Power Management bit set back to zero.

Correct Answer: D

QUESTION 4

Given the IEEE 802.11 Beacon frame decode shown,

```
⊟ network media info
      timestamp : 5/18 18:37:04.398113
      signal strength : 43% (-69 dBm)
      noise level : 0% (-95 dBm)
      frame length : 122
      data rate : 2 mbps
      channel : 3
      CRC error : no
⊟ 802.11 MAC header
   ⊞ frame control
      duration : 0 usec
      des: addr : FF:FF:FF:FF:FF:FF
      src  addr : 00:0D:ED:A5:4F:70
      bssid : 00:0D:ED:A5:4F:70
      frag number : 0
      seq number : 1444
⊟ 802.11 frame body
      timestamp : 30B1BFA1:02000000
      beacon interval : 100 TU(s)
   ⊞ capability info
   ⊞ info : SSID (0)
   ⊞ info : supported rates (1)
   ⊟ info : DS param set (3)
         length : 1
         current channel : 1
   ⊞ info : TIM (5)
   ⊟ info : ERP information (42)
         length : 1
         Non-ERP station present : yes
         Use protection : yes
```

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

QUESTION 5

Many access points support IEEE 802.1Q VLAN tagging. When analyzing a WLAN system using IEEE 802.1Q tags, where can the VLAN tag number be seen?

A. In the Sequence Control field of the MSDU

B. In the PLCP header\\'s Service field

C. In the Frame Control field of the MPDU header

D. In the Ethernet header on the wired port of the access point

E. In the Beacon Management frame\\'s Capabilities fixed field

Correct Answer: D

QUESTION 6

To effect Preauthentication, a STA\\'s supplicant sends an IEEE 802.1X/EAPoL Start message. How is the EAPoL Start message addressed?

A. DA = MAC of default gateway; RA = BSSID of the AP to which the STA is associated

B. DA = BSSID of targeted AP; RA = BSSID of the AP to which the STA is associated

C. DA = MAC of the default gateway; RA = Ethernet MAC of the targeted AP

D. DA = BSSID of the targeted AP; RA = Ethernet MAC of the targeted AP

Correct Answer: B

QUESTION 7

Given: The exhibit shows a small network environment with dual-band APs.
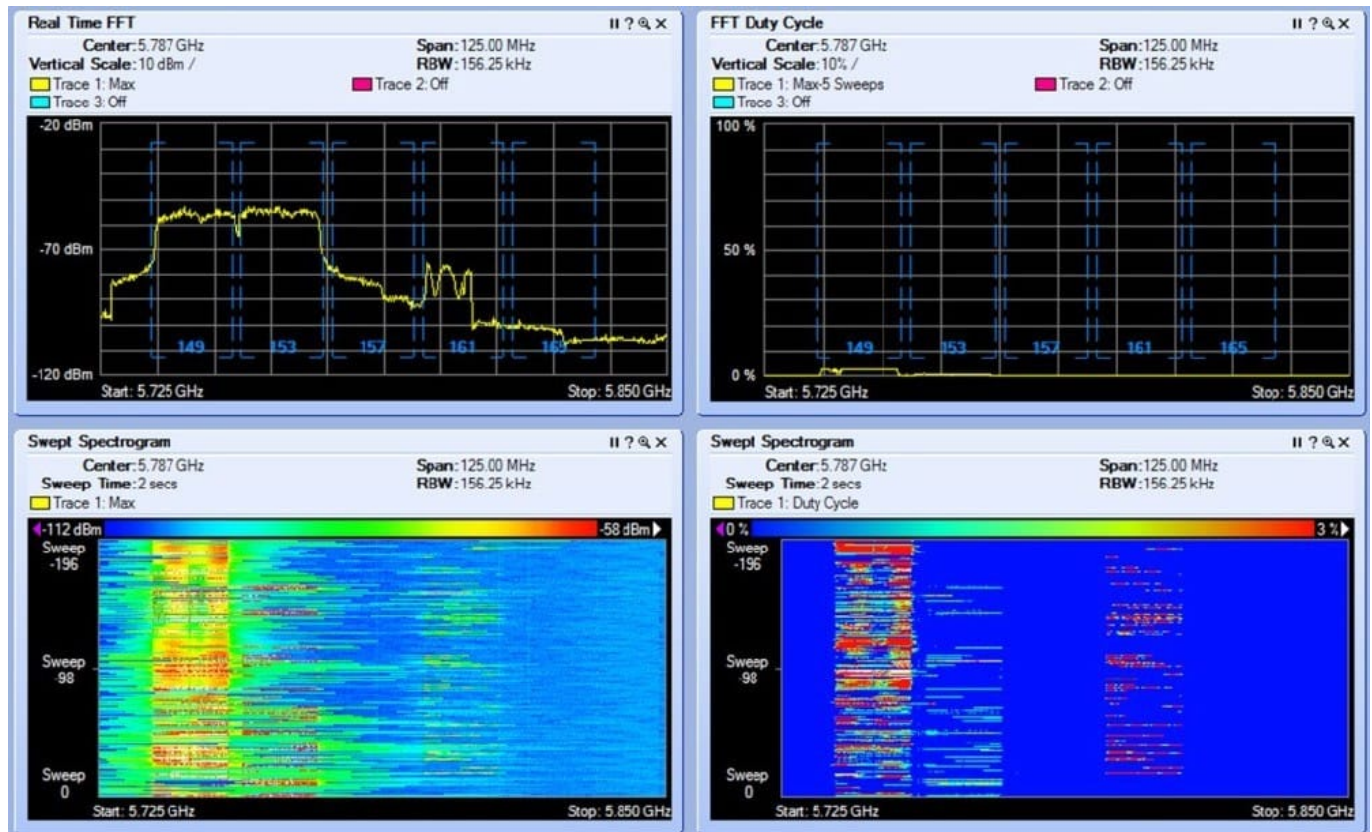
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What is true of the network shown in this spectrum analyzer trace?

A. There are at least three APs operating in this environment. They are operating on channels 149, 153, and 161.

B. There are two 40 MHz BSSs in this environment. One AP has some 40 MHz traffic while the other AP has no client traffic.

C. Only one AP in this network is configured to use the upper UNII band (UNII-3). All other APs are in lower 5 GHz channels.

D. Two 802.11a APs are near the spectrum analyzer and are heavily utilized on channels 149 and 153.

Correct Answer: B

QUESTION 8

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 9

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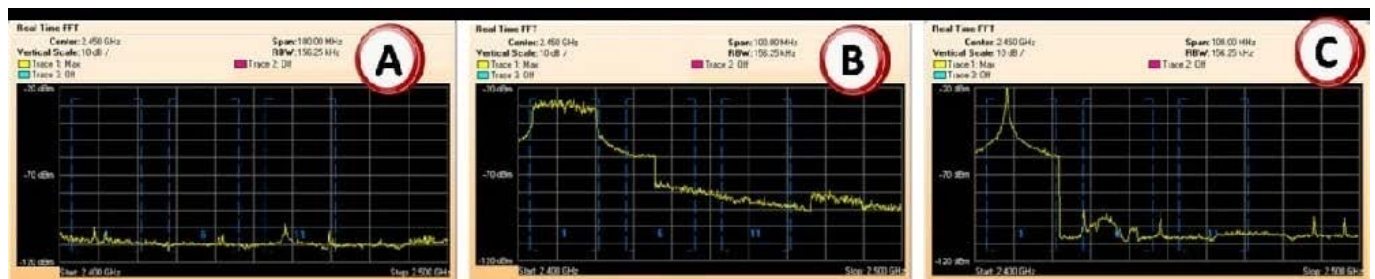
Now the 2.4 GHz RF spectrum looks like Image-C and access points and clients can no longer communicate on channel 1. What is happening on channel 1?

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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 10

With what access category\\'s parameters are WLAN multicast video frames transmitted when the EDCAF is in use by the transmitting station?

A. AC_VI

B. AC_VO

C. AC_BE

D. AC_BK

Correct Answer: C

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