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QUESTION 1

Given: Shown are frames captured from an IEEE 802.1X/LEAP authentication. This WLAN is a Robust Security Network (RSN) using the CCMP cipher suite.

Packet	Dest. Physical	Source Physical	DSSID	Absolute Time	Delta Time	Relative Time	Protocol
1	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.727946		0.000000	802.11 Probe Req
2	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.728260	0.000314	0.000314	802.11 Ack
3	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.730018	0.001758	0.002072	802.11 Probe Rsp
4	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.730330	0.000312	0.002384	802.11 Ack
5	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.730830	0.000500	0.002884	802.11 Auth
6	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.731138	0.000308	0.003192	802.11 Ack
7	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.731390	0.000252	0.003444	802.11 Auth
8	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.731598	0.000208	0.003652	802.11 Ack
9	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.733010	0.001412	0.005064	802.11 Assoc Req
10	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.733324	0.000314	0.005378	802.11 Ack
11	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.733808	0.000484	0.005862	802.11 Assoc Rsp
12	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.733848	0.000040	0.005902	802.11 Ack
13	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.734450	0.000602	0.006504	EAP Request
14	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.734355	-0.000095	0.006409	802.11 Ack
15	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.939073	0.204718	0.211127	EAP Response
16	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.939385	0.000312	0.211439	802.11 Ack
17	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.942649	0.003264	0.214703	EAP Request
18	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.942695	0.000046	0.214749	802.11 Ack
19	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.944581	0.001886	0.216635	EAP Response
20	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.944893	0.000312	0.216947	802.11 Ack
21	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.957283	0.012390	0.229337	EAP Success
22	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.957329	0.000046	0.229383	802.11 Ack
23	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.959951	0.001622	0.231005	EAP Request
24	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.959273	0.000322	0.231327	802.11 Ack
25	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.972157	0.012884	0.244211	EAP Response
26	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.972203	0.000046	0.244257	802.11 Ack
27	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.972373	0.000170	0.244427	802.1x
28	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.972413	0.000040	0.244467	802.11 Ack
29	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.974511	0.002098	0.246565	EAPOL-Key
30	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.974831	0.000320	0.246885	802.11 Ack
31	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70	Cisco:A5:4F:70	12:10:20.976199	0.001368	0.248253	802.1x
32	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9		12:10:20.976243	0.000044	0.248297	802.11 Ack
33	00:0D:ED:A5:4F:70	00:40:96:A1:9A:F9	Cisco:A5:4F:70	12:10:20.977877	0.001634	0.249931	EAPOL-Key
34	00:40:96:A1:9A:F9	00:0D:ED:A5:4F:70		12:10:20.978193	0.000316	0.250247	802.11 Ack

Using the information given in the screenshot, calculate how long it takes for only the frames that are part of the 4-Way handshake to complete.

A. 3.018 ms

B. 5.820 ms

C. 210.443 ms

D. 237.753 ms

E. 243.743 ms

Correct Answer: B

QUESTION 2

What two IEEE 802.11 entities may be used to separate successful transmissions within an EDCA TXOP? (Choose 2)

A. SIFS

B. AIFS

C. ACK

D. CAP

E. PIFS

F. EIFS

G. RIFS

Correct Answer: AG

QUESTION 3

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

QUESTION 4

Which information elements (IE) are contained in an IEEE 802.11 Probe Request frame? (Choose 2)

A. RSN IE

B. SSID

C. Status code

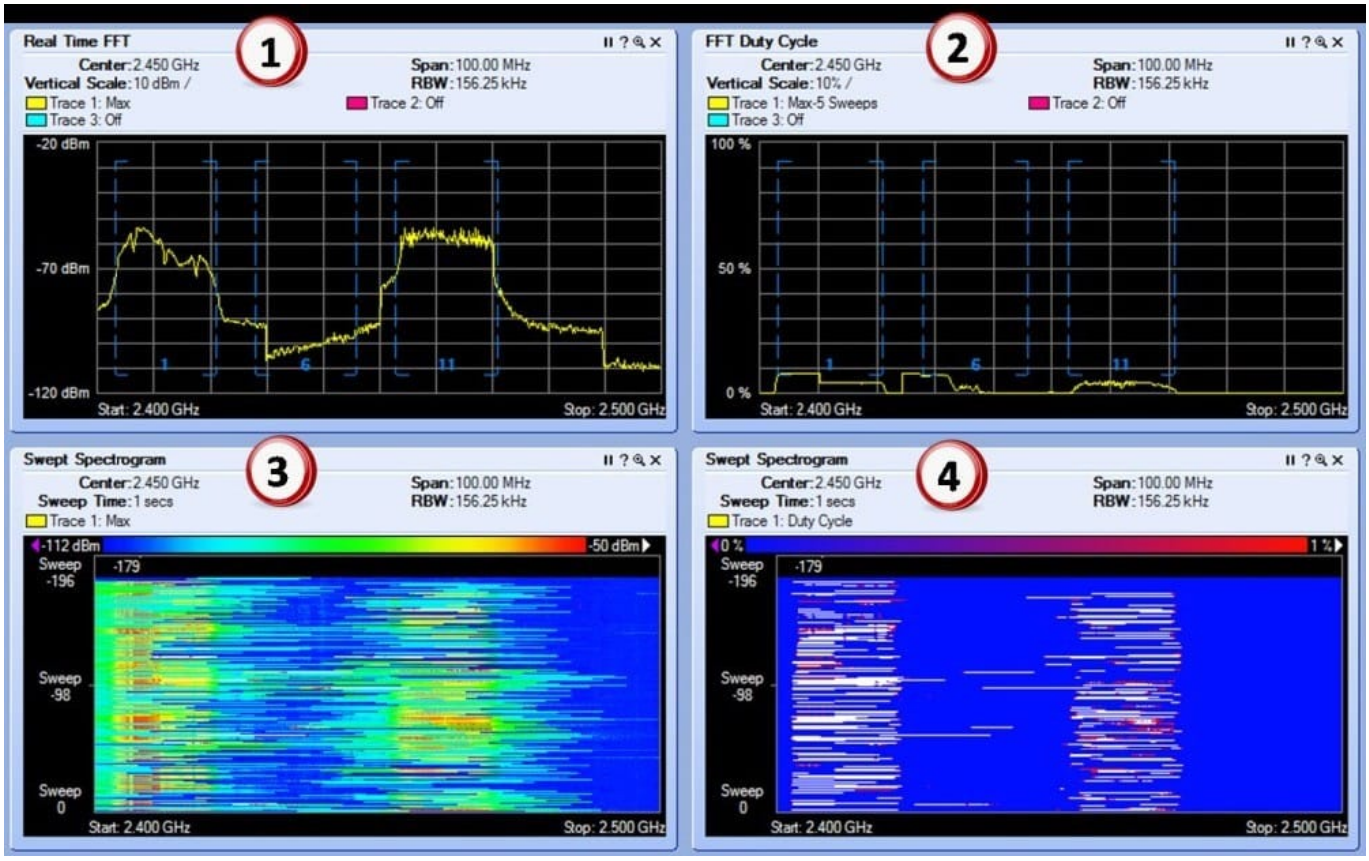
D. Association ID

E. Supported rates

Correct Answer: BE

QUESTION 5

Using the exhibit as a reference,



which spectrum plots display, in real time, the value of RF amplitude as a function of radio frequency?

A. 1 and 2

B. 1 and 3

C. All of the plots

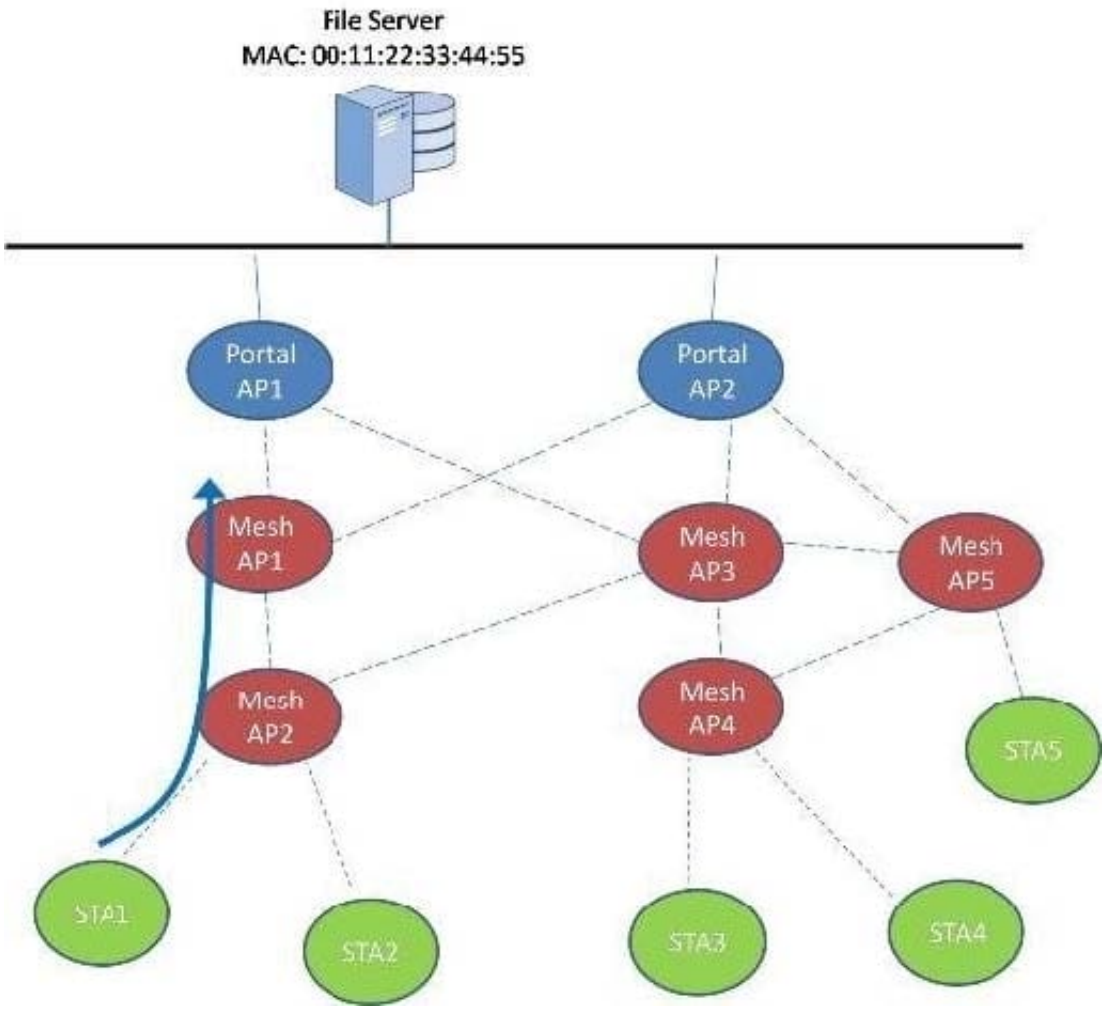
D. 1, 3, and 4

E. 3 and 4

Correct Answer: B

QUESTION 6

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

QUESTION 7

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.

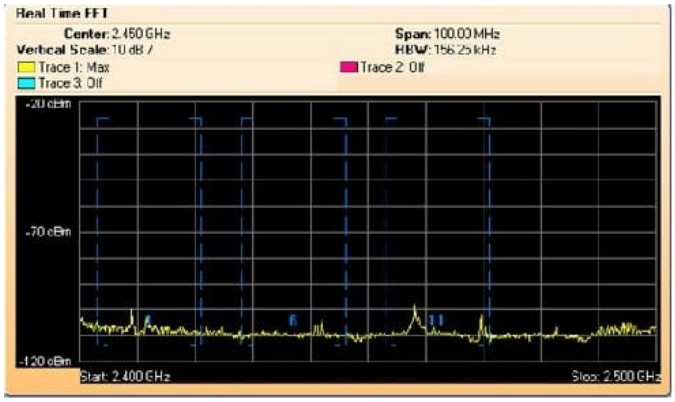


Image A

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.

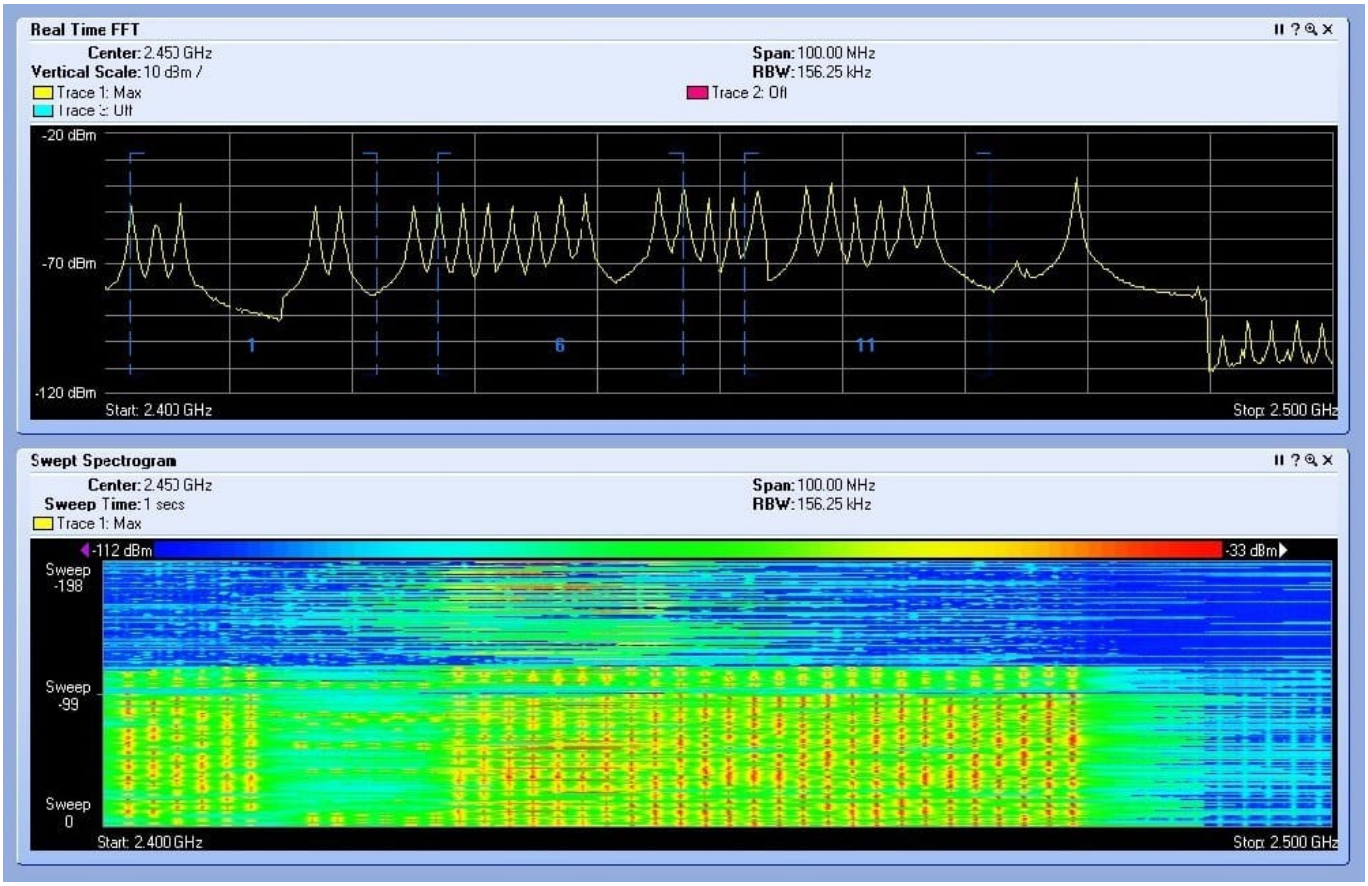
D. A manual site survey tool is actively testing the throughput of their WLAN.

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

Correct Answer: A

QUESTION 8

What types of wireless systems are illustrated?



A. An ERP IEEE 802.11 system using channel 6 and Bluetooth v1.2 discovery

B. A Bluetooth v2.0 file transfer and a 40 MHz HT AP on channels 11, 7 (primary, secondary)

C. A 2.4 GHz cordless phone on channel 14 and a wireless RFID reader

D. An 802.11 HR/DSSS system using channel 2 and a digital FHSS phone

Correct Answer: A

QUESTION 9

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 10

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