



# PW0-270<sup>Q&As</sup>

Certified Wireless Analysis Professional

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### QUESTION 1

IEEE 802.11-2007 specifies two ERP protection mechanisms: RTS/CTS and CTS-to-Self. Which statement is true regarding these two protection mechanisms? (Choose 2)

- A. RTS and CTS frames use Short Interframe Spaces (SIFS), and CTS-to-Self frames use PCF Interframe Spaces (PIFS).
- B. Use of RTS/CTS requires more overhead than CTS-to-Self due to a higher number of frames transmitted onto the wireless medium.
- C. RTS and CTS frames are relayed through the access point, whereas the CTS-to-Self frames are not.
- D. A CTS-to-Self frame sent by a client station may reach fewer nodes than the RTS/CTS frame exchange.
- E. By definition, all associated client stations in a BSS can hear RTS, CTS, and CTS-to-Self frames, so RTS/CTS and CTS-to-Self mechanisms have equal effectiveness.
- F. Aside from the Subtype subfield of the Frame Control field, the generic MAC header format of RTS and CTS frames are identical.

Correct Answer: BD

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### QUESTION 2

Given: There are many differences between analyzing wireless and wired networks. In a wireless network, there is no guarantee that one station can hear another station's transmissions. If no corrective actions are taken nor corrective mechanisms implemented when a "hidden node" problem exists, which measurable statistics parameter will likely increase in a wireless protocol analyzer?

- A. Duration value
- B. Retransmission Count
- C. Contention Window
- D. Authentication Failure
- E. BlockAck Reset
- F. ACK Timeout

Correct Answer: B

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### QUESTION 3

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

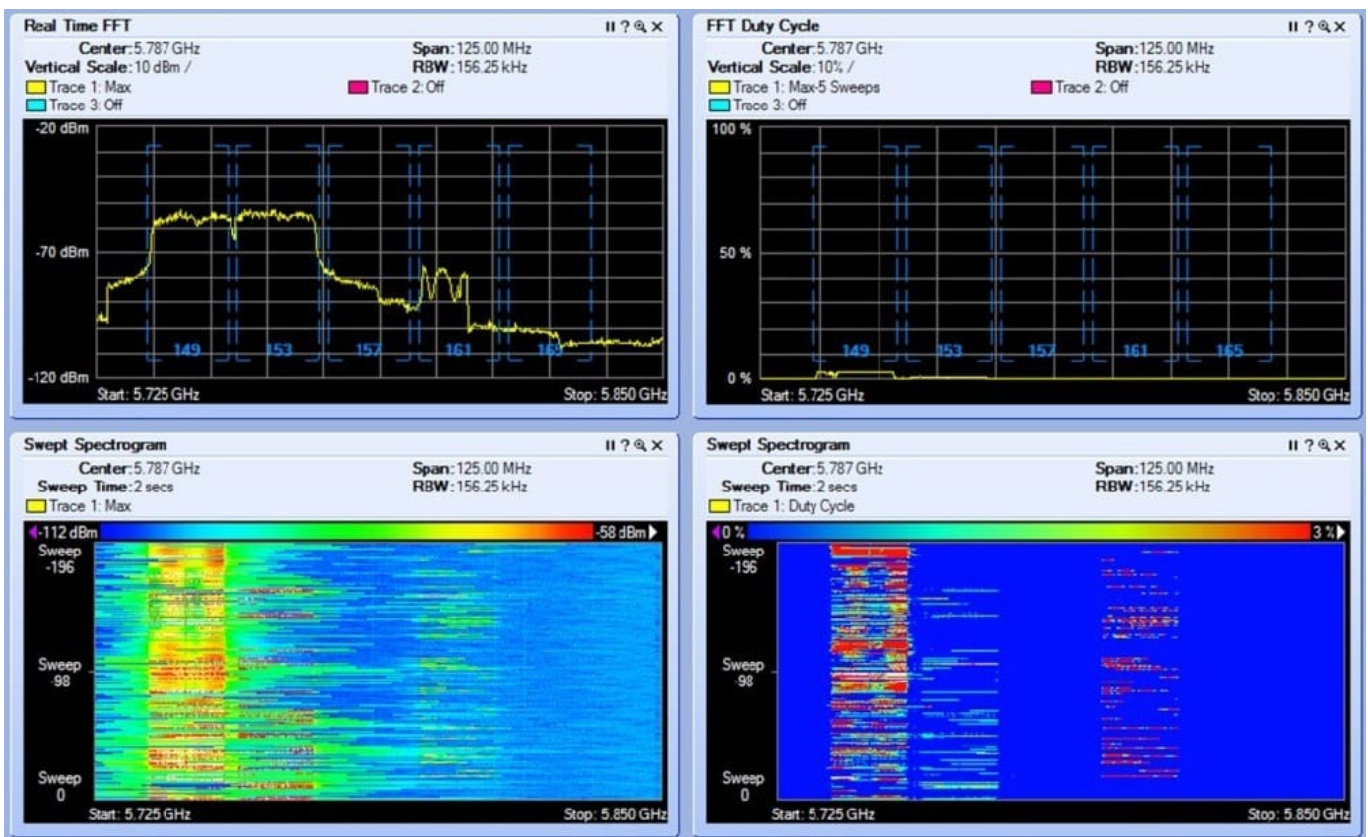


- B. 1 CTS, 1 ACK, 1 DATA, 3 SIFS
- C. 1 RTS, 1 ACK, 1 DATA, 2 SIFS, 1 DIFS
- D. 1 RTS, 1 CTS, 2 ACK, 1 DATA, 4 SIFS
- E. 1 CTS, 2 ACK, 1 DATA, 2 SIFS
- F. The entire duration of the TXOP

Correct Answer: B

#### QUESTION 4

Given: The exhibit shows a small network environment with dual-band APs.



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 5**

Given the frame capture and the decode shown,

No	M	Time	Delta	CP	Length	CS	Flags	Source	Destination	Summary
48	<input type="checkbox"/>	3/18 22:27:12.812691	4.812691	11	189	56	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
49	<input type="checkbox"/>	3/18 22:27:12.915087	4.915087	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
50	<input type="checkbox"/>	3/18 22:27:13.017488	5.017488	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
51	<input type="checkbox"/>	3/18 22:27:13.119884	5.119884	11	189	60	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
52	<input type="checkbox"/>	3/18 22:27:13.222283	5.222283	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
53	<input type="checkbox"/>	3/18 22:27:13.324681	5.324681	11	189	57	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
54	<input type="checkbox"/>	3/18 22:27:13.427072	5.427072	11	189	61	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
55	<input type="checkbox"/>	3/18 22:27:13.529475	5.529475	11	189	61	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
56	<input type="checkbox"/>	3/18 22:27:13.631869	5.631869	11	189	60	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
57	<input type="checkbox"/>	3/18 22:27:13.734271	5.734271	11	189	61	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon
58	<input type="checkbox"/>	3/18 22:27:13.836669	5.836669	11	189	54	1	00:0E:38:50:1E:40	FF:FF:FF:FF:FF:FF	802.11 beacon

```

802.11 frame body
  times:amp : 23208636
  beacon interval : 100 TUs
  + capability info
  + info : SSID (0)
  + info : supported rates (1)
  + info : DS param set (3)
  - info : TIM (5)
    length : 4
    next DTIM : 3 beacon(s)
    DTIM period : 4 beacon(s)
    AID 0 traffic indicator : 0
    TIM offset : 0
    AID 0 traffic indicator : 0
    AID 1 traffic indicator : 0
    AID 2 traffic indicator : 0
    AID 3 traffic indicator : 0
    AID 4 traffic indicator : 0
    AID 5 traffic indicator : 0
    AID 6 traffic indicator : 0
    AID 7 traffic indicator : 0
  + info : ERP information (42)
  + info : extended supported rates (50)
  + info : AP Name (133)
  + info : WPA information (221)
  
```

after which Beacons in the list shown (as indicated by the frame number in the leftmost column) would multicast traffic have been sent in this infrastructure BSS if multicast traffic had been queued for transmission at the access point? (Choose 2)

- A. Framenumber 49
- B. frame number 50
- C. frame number 51
- D. frame number 53



E. frame number 54

F. frame number 55

G. frame number 57

Correct Answer: CF

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