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# PW0-270

## CWNP

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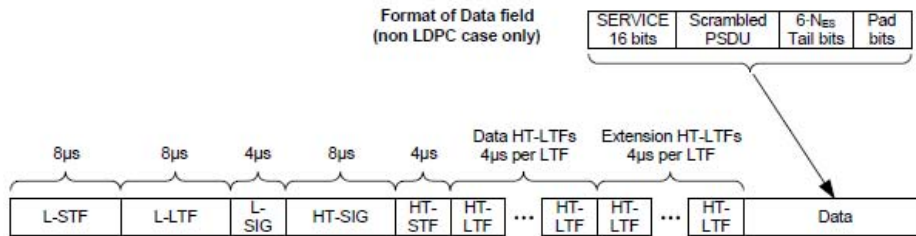
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**QUESTION: 1**

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

**Answer: A**

**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.

**Answer: A**

**QUESTION: 3**

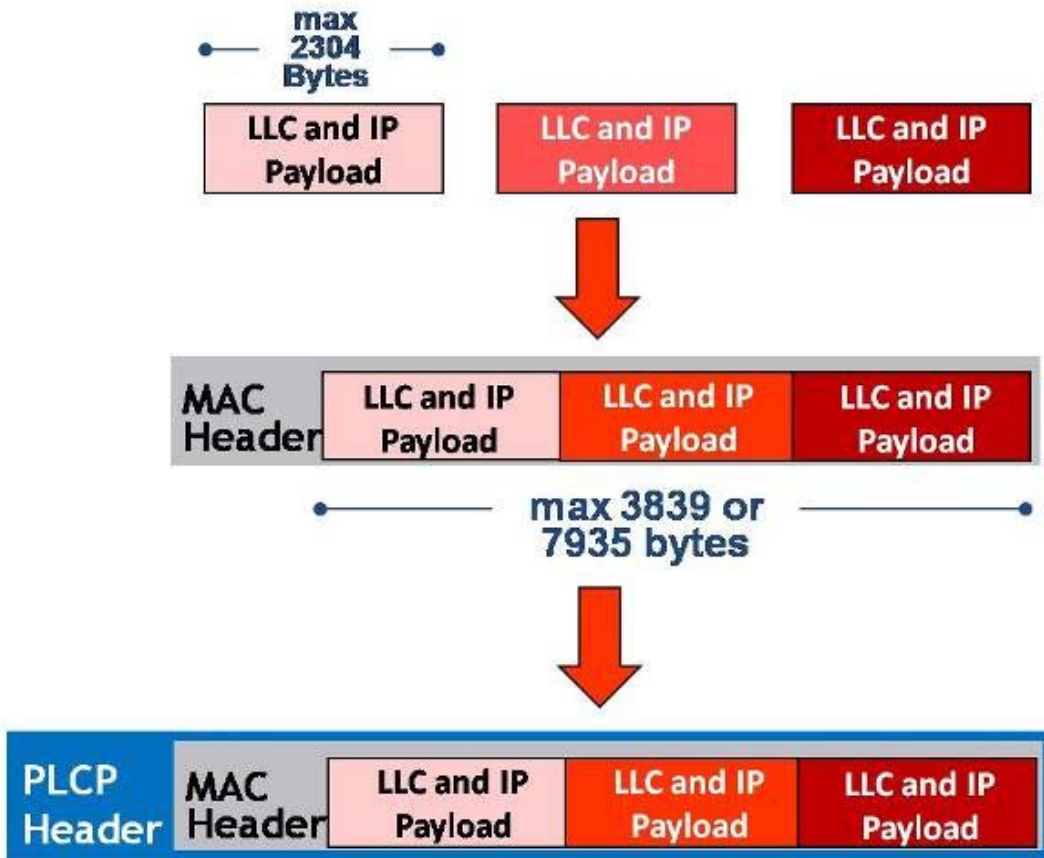
When a 5 GHz HT station in a 40 MHz BSS desires to protect a 40 MHz transmission from an OFDM station using an RTS/CTS or CTS-to-Self exchange, what frame format is used for the RTS and/or CTS frames?

- A. HT-mixed format
- B. HT-greenfield format
- C. Dual-CTS
- D. Non-HT Duplicate
- E. Phased Coexistence PPDU

**Answer:** D

**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

**Answer:** C

**QUESTION:** 5

Which statements are true regarding Beacons from an AP in an HT infrastructure BSS that is configured with multiple WLAN profiles? (Choose 3)

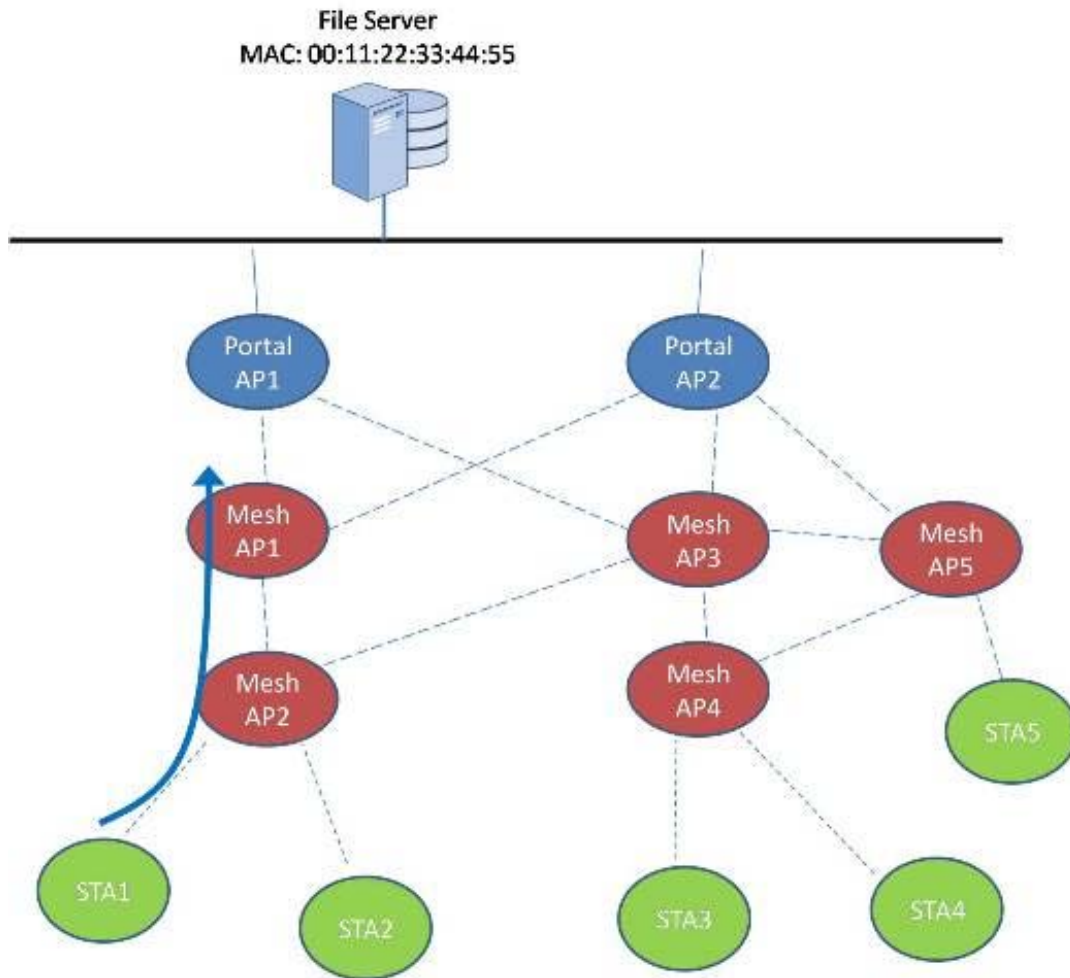
- A. Beacons can be disabled for security purposes.
- B. The BSSID and Source Address are always the same.
- C. The Destination Address is always FF:FF:FF:FF:FF:FF.

- D. The Receiver address and the BSSID are always the same.
- E. When the SSID is "hidden," the ESS subfield of the Capability Information field distinguishes one BSS from another.
- F. All Beacons generated by APs contain a TIM information element.
- G. The Beacon interval must be the same for all WLANs (SSIDs) supported by a single AP

**Answer:** B, C, F

**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

**Answer:** B, D, F

**QUESTION:** 7

According to 802.11-2007, in what frame type(s) might you find the PMK Count and PMKID List fields?

- A. All frames that include the RSN IE
- B. Only (Re)Association Request frames
- C. Beacon and Probe Response frames
- D. EAPoL 4-Way Handshake frames
- E. Authentication and Association Request and Response frames

**Answer:** B

**QUESTION:** 8

Which statement is true regarding the Association Identifier (AID) used in IEEE 802.11 WLANs?

- A. The AID has a maximum value of 2048, and is used to uniquely identify a wireless client station associated with an access point.
- B. The AID has a maximum value of 2007, and resides in the duration/ID field of a PS-Poll frame.
- C. The client station is assigned an AID value in the 802.11 authentication response frame.
- D. The AID field is present only in Beacons frames.
- E. The AID is used by the access point in EDCA mode to reduce duplicate transmissions when sending multicasts.

**Answer:** B

**QUESTION:** 9

In which 802.11 frames is the SSID present, provided the SSID is not removed through proprietary software configuration by an administrator? (Choose 3)

- A. Association Request
- B. Reassociation Request
- C. Probe Response
- D. Disassociation
- E. Authentication
- F. Association Response

**Answer:** A, B, C

**QUESTION:** 10

In the frame decode shown, there are two sets of supported data rates. 1, 2, 5.5, and 11 Mbps are all shown as "basic" data rates, and 6, 9, 12, 18, 24, 36, 48, and 54 Mbps are shown simply as supported data rates.

No	M	Time	Delta	Length	Source	Destination	BSSID	Summary
1	✓	5/27 13:58:23.000000	0.000000	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
2		5/27 13:58:23.102381	0.102381	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
3		5/27 13:58:23.204795	0.204795	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
4		5/27 13:58:23.307191	0.307191	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
5		5/27 13:58:23.511987	0.511987	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
6		5/27 13:58:23.584619	0.584619	218	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
7		5/27 13:58:23.614398	0.614398	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
8		5/27 13:58:23.789402	0.789402	218	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
9		5/27 13:58:23.891814	0.891814	218	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
10		5/27 13:58:23.994217	0.994217	218	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
11		5/27 13:58:24.023987	1.023987	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
12		5/27 13:58:24.096606	1.096606	218	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
13		5/27 13:58:24.331211	1.331211	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
14		5/27 13:58:25.048014	2.048014	324	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon

```

info : SSID (0)
info : supported rates (1)
  length : 4
  rate : 1.0 mbps basic
  rate : 2.0 mbps basic
  rate : 5.5 mbps basic
  rate : 11.0 mbps basic
info : DS param set (3)
info : TIM (5)
info : ERP information (42)
info : extended supported rates (50)
  length : 8
  rate : 6.0 mbps
  rate : 9.0 mbps
  rate : 12.0 mbps
  rate : 18.0 mbps
  rate : 24.0 mbps
  rate : 36.0 mbps
  rate : 48.0 mbps
  rate : 54.0 mbps
  
```

What is true of "basic" data rates in this context?

- A. The AP requires all client stations to support Basic rates in order to associate to its BSS.
- B. The highest data rate set to Basic is automatically used to send broadcast traffic such as Beacon frames.
- C. Basic rates are optional data rates for the BSS, often used for assuring connectivity for legacy stations.
- D. Basic rates are only used for multicast traffic, and do not affect unicast traffic.
- E. Basic rates are defined in an AP's service set to specify mandatory data rates for all retry frames.

**Answer:** A

**QUESTION:** 11

Given the frame capture and the decode shown,



No	M	Time	Delta	📶	Length	📶	📶	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
  timestamp : 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

**Answer:** C, F

**QUESTION:** 12

The Retry subfield is found in which IEEE 802.11 frame field?

- A. Sequence Control field
- B. Protocol Order field
- C. Data Control field
- D. Frame Control field
- E. MAC Service Data Unit field



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