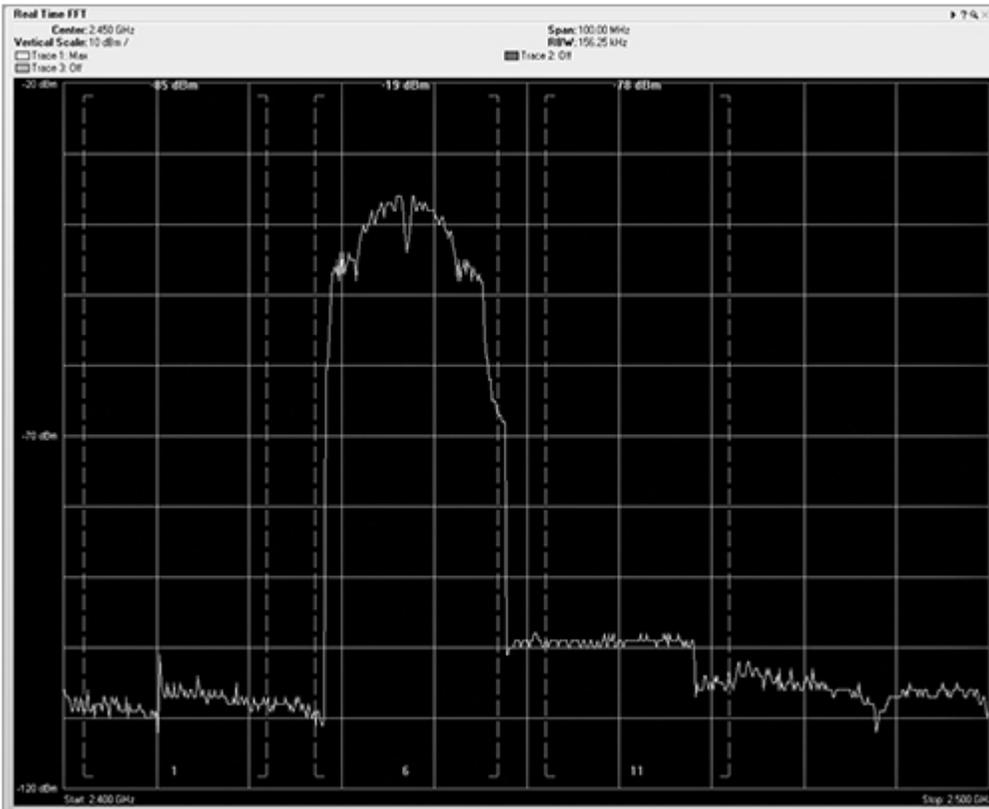


# Latest Version: 7.0

## Question: 1

Looking at the graphic, what type of RF signature is being displayed?



Response:

- A. OFDM
- B. FSK
- C. ERP-OFDM
- D. PSK
- E. ASK

**Answer: D**

## Question: 2

What is the name given to the information element that specifies the details of the type of encryption and authentication in use in a WPA/WPA2-compatible cell?

Response:

- A. Privacy
- B. Cipher
- C. Security
- D. RSN

**Answer: D**

### Question: 3

What is the purpose of the Listen Interval field?  
Response:

- A. To organize the detection of radar blasts
- B. To optimize BSS Fast Roaming transition times
- C. To specify when stations in low power mode would wake up
- D. To determine the next QoS service period

**Answer: C**

### Question: 4

To confirm that the wireless QoS priorities are being preserved on the wired network, you decide to capture the traffic traveling to and from the network uplink on your wireless controller. You do not want to disrupt the operation of the wireless controller by breaking its network connection. What method should you use to obtain a copy of the wireless controller's traffic?  
Response:

- A. Place a network hub in line with the wireless controller.
- B. Use a wireless analysis to capture the packets from the air.
- C. Configure port spanning on the switch connected to the wireless controller.
- D. Place a network tap in line with the wireless controller.

**Answer: C**

### Question: 5

When an RTS frame is transmitted, the Duration value is set to include the duration of which of the following?  
Response:

- A. 3 SIFS, RTS frame, CTS frame, Data frame, ACK frame

- B. 2 SIFS, Data frame, ACK frame
- C. 2 SIFS, Data frame, ACK frame
- D. 3 SIFS, CTS frame, Data frame, ACK frame

**Answer: D**

### Question: 6

The network administrator at ABC Engineering has taken a large packet capture from one of their APs running in monitor mode. She has very little knowledge of 802.11 protocols but would like to use the capture file to evaluate the overall health and performance of their wireless network.

When she asks your advice, which tool do you recommend she opens the packet capture file with?  
Response:

- A. Capture visualization tool
- B. WLAN scanner
- C. Protocol analyzer
- D. Spectrum analyzer

**Answer: C**

### Question: 7

During a basic RTS/CTS transmission, when a station sends an RTS, the Duration/ID field notifies the other stations that they must set their NAV timers to which of the following values?

Response:

- A. The time necessary to transmit the DATA and ACK frames, along with one SIFS
- B. The time necessary to transmit the CTS, DATA, and ACK frames, along with three SIFS
- C. 213 microseconds
- D. The time necessary to transmit the CTS frame

**Answer: B**

### Question: 8

Which information element describes support for 40 MHz wide channels?

Response:

- A. The HT Frequency Slicing information element
- B. The HT Operation element
- C. The HT Extended Channel information element

D. The Channel Bonding information element

**Answer: B**

### Question: 9

Which type of power management frame is used only in an IBSS?

Response:

- A. PS-Poll
- B. CF-Poll
- C. ATIM
- D. DTIM

**Answer: C**

### Question: 10

ASEL is a MIMO antenna diversity method that can be used when.

Response:

- A. a station has more radio chains than antennas
- B. a station has more or less radio chains than antennas but not the same.
- C. a station has the same number of radio chains as antennas
- D. a station has more antennas than radio chains

**Answer: D**

### Question: 11

Which of the following statements is false regarding quality of service (QoS) stations?

Response:

- A. It is likely that QoS devices will transmit both QoS and non-QoS data frames in a mixed environment.
- B. When a QoS data frame is transmitted, the QoS subfield contains a value of 1.
- C. QoS stations are capable of transmitting both QoS and non-QoS data frames.
- D. When a QoS data frame is transmitted, the frame contains a QoS Control field in the MAC header.
- E. When a non-QoS data frame is transmitted, the QoS Control field in the MAC header is empty.

**Answer: E**

## Question: 12

Which one of the following 802.11 amendments defined new power management methods, involving stations entering the doze state, that are used in real-world devices?

(Choose all that apply.)

Response:

- A. 802.11n
- B. 802.11b
- C. 802.11h
- D. 802.11e

**Answer: A,D**

## Question: 13

Which subfield found within a beacon frame lists the HT MCS supported by the access point?

Response:

- A. TX MCS Set Defined
- B. Support Data Rates
- C. Basic MCS Set
- D. RX MCS Bitmask

**Answer: D**

## Question: 14

How does a client station indicate that it is using Power Save mode?

Response:

- A. Using DTIM, the access point determines when the client station uses Power Save mode.
- B. It transmits a frame to the access point with the Power Management field set to 1.
- C. It transmits a frame to the access point with the Sleep field set to 1.
- D. It doesn't need to, because Power Save mode is the default.

**Answer: B**

## Question: 15

During an initial install of a controller-based WLAN, the APs are not locating the WLAN controller. The controller is two router hops away from the nearest AP. DHCP is not used. When performing a packet trace, you see a DNS response code of 3 targeted at one of the APs.

What is the problem?

Response:

- A. The authentication to the DNS server failed
- B. The controller host record has not been created in the DNS server
- C. The router is not forwarding packets to the DNS server
- D. The DNS server is not authoritative for the domain

**Answer: B**

### Question: 16

Finish the statement. It is possible to distinguish between \_\_\_\_\_ and \_\_\_\_\_ 20 MHz transmissions when looking at an FFT plot.

Response:

- A. HR/DSSS and ERP
- B. ERP and VHT
- C. HT and VHT
- D. OFDM and HT

**Answer: C**

### Question: 17

As the expert in wireless analysis within your company, you are sent a unfiltered trace file from a colleague who captured the file at a site where users were unable to authenticate to the wireless network.

The trace files consist of more than 5,000 packets, and 70 percent of trace file is made up of beacon, probe request, and probe response frames. What is one the first things you would do?

Response:

- A. Configure a display filter to hide any unwanted traffic.
- B. Ask your colleague to take another capture, with filters configured to remove beacon, probe request frames, and probe response frames.
- C. Reconfigure the access points with a greater beacon interval.
- D. Start looking through each packet decode in turn, looking for anything unusual.

**Answer: A**

## Question: 18

Based on the 802.11 frame capture shown here, what type of networking communications are occurring?

|                          |                   |
|--------------------------|-------------------|
| <b>802.11 MAC Header</b> |                   |
| Version:                 | 0                 |
| Type:                    | %10 Data          |
| Subtype:                 | %1000 QoS Data    |
| Frame Control Flags=     | %00000011         |
| Duration:                | 44 Microseconds   |
| Receiver:                | 00:0E:38:49:05:80 |
| Transmitter:             | 00:0C:85:62:D2:1D |
| Destination:             | 00:0A:E4:DA:8D:DS |
| Source:                  | 00:90:96:BD:77:35 |
| Seq Number:              | 982               |
| Frag Number:             | 0                 |

Response:

- A. Mesh backhaul
- B. Client station to server
- C. AP to client station
- D. Client station to AP
- E. Server to client station

**Answer: A**

## Question: 19

Upon receipt of a reverse direction grant (RDG), the receiving station may do what?

Response:

- A. Transmit data back to the source of the RDG within the current TXOP
- B. Transmit data in the next TXOP to any STA within the BSS
- C. Transmit data back to the source of the RDG within the next TXOP
- D. Transmit data within the current TXOP to any STA within the BSS

**Answer: A**

**Question: 20**

You are troubleshooting a connection problem with a client STA. Regardless of the AP to which it attempts to connect, the connection fails. Using a wired protocol analyzer, you determine that the problem is with the 802.1X/EAP authentication to the RADIUS server.

What layer or range of layers of the OSI model revealed this information?

Response:

- A. Above Layer 4
- B. Below Layer 3
- C. Layer 3
- D. Layer 2

**Answer: C**