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QUESTION 1

When a WLAN controller transmits an Ethernet frame that has an IEEE 802.11 frame as its payload to a lightweight AP, what type of QoS marks can be applied to the Ethernet frame and/or its payload? (Choose 3)

- A. IEEE 802.1Q PCP marks in the Ethernet frame header
- B. User Priority marks in the IEEE 802.11 frame header
- C. Throughput subscription marks in the Ethernet frame header
- D. MPLS tags from the Label Edge Router (LER)
- E. DSCP marks to the ToS bits in the encapsulating IP packet header
- F. RSVP tag if RTP is the payload of the IEEE 802.11 frame

Correct Answer: ABE

QUESTION 2

Given: You are evaluating the theoretical and real-world RF gain benefits of transmit and receive features introduced by 802.11n with MIMO. This exercise allows you to quantify the feature's value in a real-world environment.

What is the maximum theoretical signal gain of chip-based TxBF and MRC (as features) when compared to the same AP using only a single antenna for transmit and receive (effectively simulating a 1x1 chip)?

- A. 2 Rx or Tx chains = 3 dBi gain 3 Rx or Tx chains = approx 5 dBi gain 4 Rx or Tx chains = 6 dBi gain
- B. 2 Rx or Tx chains = 1 dBi gain 3 Rx or Tx chains = 2 dBi gain 4 Rx or Tx chains = 3 dBi gain
- C. 2 Rx or Tx chains = 3 dBi gain 3 Rx or Tx chains = 6 dBi gain 4 Rx or Tx chains = 9 dBi gain
- D. 2 Rx or Tx chains = approx 4-6.5 dBi gain 3 Rx or Tx chains = approx 7-10 dBi gain 4 Rx or Tx chains = approx 10-12 dBi gain
- E. The theoretical gains offered by each additional radio are different for TxBF and MRC.

Correct Answer: A

QUESTION 3

A Layer 1 sweep was performed at a customer location, and you are asked to review a capture taken during the survey.



What is the meaning of the chart shown in the exhibit and how should it be interpreted?

- A. Real Time FFT means Real Time First Fundamental Trace and shows the value of the first signal detected on each frequency at each sweep interval.
- B. Real Time FFT means Real Time Fast Frequency Timing and shows the RF pulses measured by the Layer 1 sweep tool.
- C. Real Time FFT means Real Time Fast Fourier Transform and shows the max value of the signal detected on each frequency in real time.
- D. Real Time FFT means Real Time Frequency Fundamental Texture and shows the value of the noise background generated by the card used to perform the Layer 1 sweep.

Correct Answer: C

QUESTION 4

In a manufacturing facility with highly reflective materials, you are planning an upgrade to your existing 802.11b solution. You have chosen a dual-band 802.11n infrastructure product for this purpose. Your client applications include:

Handheld scanners -- for inventory management

Toughbooks (laptops) -- mounted on forklifts for inventory and workflow management

VoWiFi phones -- used by select employees throughout the facility

You are evaluating all of the 802.11n enhancements and determining which features to enable for your environment and

applications.

In this scenario, what 802.11n enhancements should NOT be enabled on the 2.4 GHz radio of the new APs? (Choose 2)

- A. 40 MHz channels
- B. Short guard intervals
- C. Block Acknowledgments
- D. Frame aggregation
- E. MRC
- F. STBC

Correct Answer: AB

QUESTION 5

Given: Use Exhibit 1, 2, and 3 to answer the question.

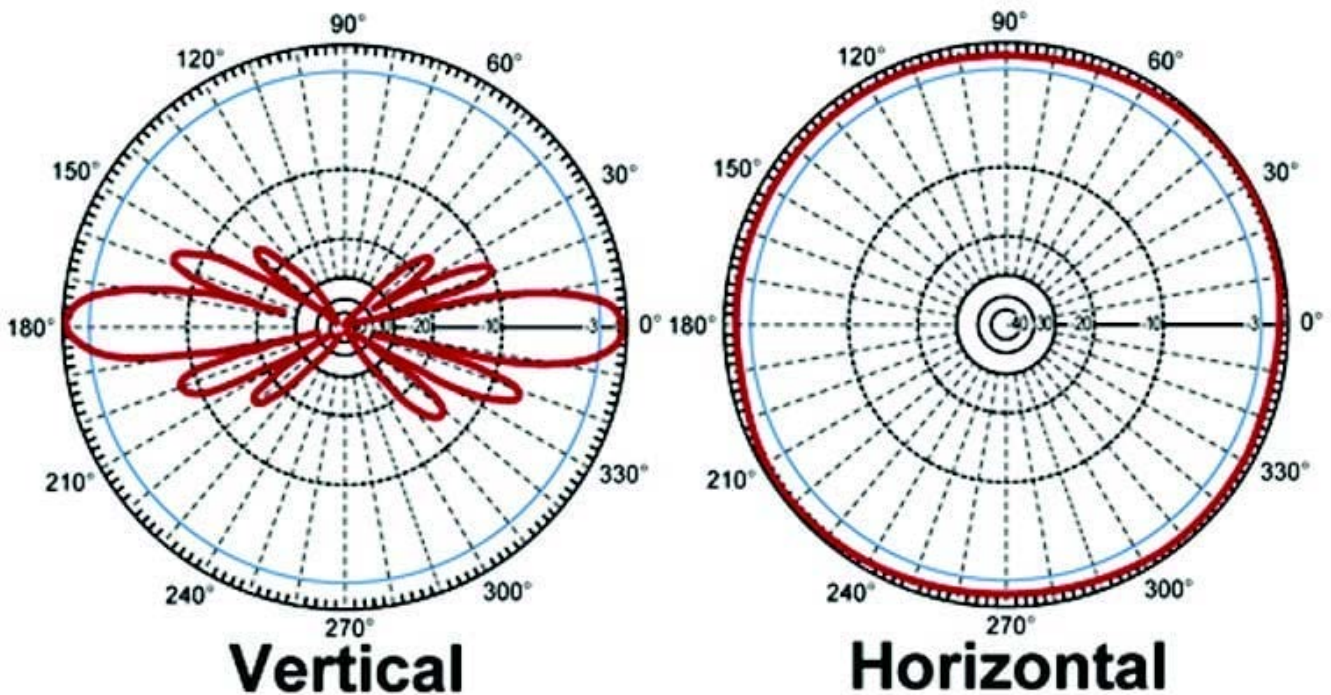


Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



The azimuth and elevation charts for which type of antenna are shown in Exhibit 1?

- A. Figure 1
- B. Figure 2
- C. Figure 3
- D. Figure 4
- E. Figure 5
- F. Figure 6

Correct Answer: C

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