Exam Questions cwap-402

Certified Wireless Analysis Professional

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NEW QUESTION 1
You are using a laptop-based protocol analyzer to scan all channels and determine the basic configuration of the WLAN Basic Service Set in your facility. You are scanning all channels. All configured with default settings.
What can you change to cause the scan to run faster while still APs are capturing beacon frames on all the channels?

A. Configure the RBW to more than 120 kHz
B. Configure the scan time for channels to 300-500 ms
C. Configure the fragmentation threshold to 1500 bytes
D. Configure the scan time for channels to <100 ms

Answer: A

NEW QUESTION 2
To what data rates can a 5 GHz PHY device shift when changers occur in the signal strength?

A. 11, 5.5, 2, 1
B. 24, 18, 12, 5.5
C. 24, 18, 11, 2
D. 24, 18, 12, 6

Answer: D

NEW QUESTION 3
The data rate for a data frame is 150 Mbps in 5 GHz. What rate is used to transmit the PHY header information?

A. 1 Mbps
B. 150 Mbps
C. 75 Mbps
D. 6 Mbps

Answer: A

NEW QUESTION 4
What is the Extended IFS used in 802.11 contention?

A. When the higher data rates are used and you want the fastest medium access times
B. When the lower data rates are used and you want the fastest medium access times
C. When 802.11ac must coexist with 802.11n
D. When a frame reception begins but the received frame is incomplete or corrupted based on the FCS

Answer: C

NEW QUESTION 5
iPerf is a tool used in what category of testing?

A. Configuration
B. Connection
C. Name resolution
D. Throughput

Answer: D

NEW QUESTION 6
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?

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

Answer: A

NEW QUESTION 7
You are attempting to determine timing information within a packet capture of a WLAN protocol analyzer.
What time is used to display the time the packet was captured based on the system clock in the computer?

A. Relative
B. Arrival
C. Interframe
D. Delta

Answer: B

Explanation: Arrival Time—This is the time that is assigned to a packet after it is processed by the host system. This timestamp is dependent upon the system clock of the computer, and designates when the packet was captured.

NEW QUESTION 8
The To DS bit is set to 0 and the From DS is set to 1. What best describes this 802.11 frame?

A. A frame being transmitted from an AP to a client STA
B. A frame being transmitted in a mesh BSS
C. A frame being transmitted from a client STA to an AP
D. A frame being transmitted directly from one client STA to another

Answer: A

NEW QUESTION 9
You are analyzing a problem with a specific client adapter. The vendor specifications sheet does not provide detailed information.
What tool can you use to provide the most detailed specification information in many such cases?

A. WLAN controller
B. Spectrum analyzer
C. FCC ID Search
D. Wi-Fi finder

Answer: C

NEW QUESTION 10
You are considering the performance of a BSS based on different PHY types used. In the BSS, one device must use ERP as it does not support HT in its 2.4 GHz band.
What is the duration of the interframe space for this ERP device for standard data frame transmissions?

A. 10 microseconds
B. 16 microseconds
C. 28 microseconds
D. 9 microseconds

Answer: B

NEW QUESTION 10
HOTSPOT
A manager at a retail outlet has complained that an incident occurred allowing a STA to launch an attack against another STA connected to their public Wi-Fi hotspot. He has asked you to troubleshoot the situation and verify that all possible measured are being taken to prevent this.
What configuration should you check in the AP?
[MISSING]

Answer:

NEW QUESTION 15
You view a protocol analyzer capture decode with the following protocol frames listed in the following order (excluding the ACK frames): 1) 802.11 Probe Request and 802.11 Probe Response 2) 802.11 Auth and another 802.11 Auth 2) 802.11 Assoc Req and 802.11 Assoc Rsp 4) EAPOL-Start 5) EAP Request and EAP Response 6) EAP Request and EAP Response 7) EAP Request and EAP Response 8) EAP Request and EAP Response 9) EAP Request and EAP Response 10) EAP Success 19) EAPOL-Key (4 frames in a row)
What are you seeing in the capture file?

A. WPA2-Personal authentication
B. Wi-Fi Protected Setup with PIN
C. WPA2-Enterprise authentication
D. 802.1X with Dynamic WEP

Answer: C

NEW QUESTION 16
What is the formula used to calculate the Duration field value in an RTS frame?

A. RTS Duration field = CTS duration
B. RTS Duration field = Data or management to be sent frame duration
C. RTS Duration field = Data or management frame to be sent duration + CTS duration + one ACK duration + three SIFS
D. RTS Duration field = Data or management frame to be sent duration + CTS duration

Answer: C

NEW QUESTION 19
You are working in an organization that has implemented an SCA-based WLAN. You want to change the RF channel for a single AP.
What can you do to perform this task with some SCA solutions?

A. Access the AP using SSH and change the channel
B. Access the AP through the console port and change the channel
C. Access the AP using Telnet and change the channel
D. Convert the network to MCA

Answer: D

NEW QUESTION 23

You are using a Wireless Aggregator utility to combine multiple packet captures. One capture exists for each of channels 1, 6 and 11.
What kind of troubleshooting are you likely performing with such a tool?

A. Fast secure roaming problems.
B. Narrowband DoS attack detection.
C. Interference source location.
D. Wireless adapter failure analysis.

Answer: C

NEW QUESTION 27

Given: Protocol analyzer often have useful graphical dashboards providing information about the health and operations of the WLAN.
What is a valid use of a graph showing the Top APs Based on Active Associations?

A. Ensuring compliance with corporate security policies
B. Discovering the total number of client STAs on your network
C. Evaluating the capacity handling on a specific channel
D. Locating overloaded APs

Answer: D

NEW QUESTION 28

You are evaluating a protocol capture file in Wireshark. The following filter is applied: wlan_radio.11ac.bandwidth - - 4
What kind of frames are displayed?

A. Only 40 MHz frames
B. Only 80 MHz frames
C. Only frames supporting 4 spatial streams
D. Only frames supporting 4 radio chains

Answer: B

NEW QUESTION 32

You are explaining capacity planning to another engineer assisting you on a WLAN implementation project. As part of the explanation, you provide the following formula: C = B
* log2(1 + S/N).
What does this formula define?

A. Bandwidth capabilities of a channel
B. The WEP encryption algorithm
C. Minimum signal strength for a data rate
D. Maximum signal strength of a channel

Answer: A

NEW QUESTION 35

You must report on frame types seen on the WLAN. You want to list the frame types by both name and binary value.
What frame type is represented by the binary value 011010, which includes the Type and Subtype values?

A. Beacon
B. PS-Poll
C. Authentication
D. Association Request

Answer: B

NEW QUESTION 39

You want to simplify viewing frames of a particular type in Wireshark. What is used to specify frames for colorization?

A. Custom code must be written and the binaries recompiled
B. Automated protocol analysis is used and no additional options may be specified
C. Filters are used to define the frames that should be colorized
D. A scripting language is available to modify the code before recompilation

Answer: C

Explanation: Protocol analyzers also support highlighting or colorization and filtering. The highlighting feature allows you to define colors for packets or frames matching particular criteria. It allows those frames to stand out as you browse through the captured frames

NEW QUESTION 42
A new firmware has been released for the AP model you use in your WLAN. You have more than 120 of these APs installed.
What is a good reason for applying a firmware update on an enterprise AP?

A. Enable new security features and patch vulnerabilities
B. Enable 4x4:4 spatial streams on a 3x3:3 AP
C. Enable the short guard interval
D. Disable lower data rates

Answer: A

NEW QUESTION 46
While troubleshooting DHCP issues, you perform a protocol capture in order to determine if the DNCP pool is depleted. The capture does not show DHCPnak messages.
Where else could you look to determine if the pool is depleted?

A. Switch logs
B. DHCP server logs
C. Spectrum analyzer
D. AP logs

Answer: B

Explanation: A very common problem for WLANs is DHCP pool depletion. This occurs because many wireless clients come-and-go from the network quickly. If a client connects for only two or three minutes and the lease duration is set to multiple days (3-8 days is not uncommon), the IP address will be lost for that entire time. To resolve such issues, create more pools and reduce the lease duration to hours instead of days. Look for DHCP negative acknowledgement or server log errors to determine if the IP pool is depleted.

NEW QUESTION 51
You are performing 802.3 network analysis. For what are the DA and SA fields used in the frame header?

A. Defining either direct access or sourced access
B. Defining the addresses sending and receiving the frame
C. Defining either distance access routing or strict access routing
D. They are not used; addresses are only used in the 802.11 header

Answer: B

NEW QUESTION 54
You are troubleshooting VoIP WLAN issues. When performing a PING to a remote device that would be involved in a call link, you see that the time value averages 220 milliseconds.
How much extra delay beyond that recommend for VoIP links is in this link?

A. There is not enough information because the PING command give round-trip-times
B. There is 70 milliseconds more delay than recommended
C. There is 80 milliseconds more delay than recommended
D. There is no extra delay beyond that recommended, instead there is 80 milliseconds less

Answer: D

NEW QUESTION 59
You are troubleshooting problems with DHCP in relation to lightweight APs. They vendor class identifier (VCI) is not specified in the DHCP server. When you contact vendor support, they inform you that it is not necessary.
When is this information true?

A. When only one client option 43 value is required
B. When only one AP exists on the subnet
C. When the DHCP server is directly connected to the subnet
D. When only one client option 60 value is required

Answer: A

Explanation: The DHCP server should be configured to provide the IP address information to the APs, but it may also be required to pass information for option 43. Option 43 is a vendor information option and can be used for any vendor purpose. The vendor class identifier (VCI) (for example, "Cisco AP c3600") is used with option 60 to determine the appropriate information to return with option 43.

NEW QUESTION 63
The manager in the security group is concerned about compliance with security policies on the WLAN. The budget is not available for a full WIPS SOLUTION. He has asked you to implement a process that will verify compliance.
What would you recommend in such a scenario?

A. Use the built-in spectrum analyzer features of the APs to ensure that WPA2-Enterprise is implemented throughout the organization
B. Simplify enable 802.11w, which will enforce management frame compliance

C. Use a laptop-based protocol analyzer that provides compliance reporting to monitor the environment on a periodic basis
D. Implement AP-based sensors throughout the facility and then monitor for performance issues with these sensors

Answer: C

NEW QUESTION 64
You work as an SE for a value-added reseller. A client has an existing deployment of 802.11n Aps and wants to upgrade several BSSs to 802.11ac.
What hardware feature of some enterprise Aps may allow for this without a forklift upgrade?

A. Adding an 802.11ac module to the existing APs
B. Simply check the Enable 802.11ac checkbox in the web-based configuration interface
C. Replace the antennas with 802.11ac antennas
D. Converting the 802.11n radio to an 802.11ac radio through software

Answer: B

NEW QUESTION 65
You are responsible for troubleshooting and analysis of the WLAN in your organization that supports more than 700 client STAs. Forty APs are deployed and they are all dual-band APs and are controller-based. You must troubleshoot the wired side in some scenarios using a protocol analyzer.
Which one of the following problems would warrant wired-side analysis in most situations?

A. High 802.11 retry rates
B. High 802.11 CRC rates
C. WMM QoS issues
D. DHCP problems

Answer: C

NEW QUESTION 67
You need to determine RF activity over time in a spectrum analyzer. It is to be able to see the activity and the amplitude of that activity.
What kind of view should be used?

A. Real-time FFT
B. Device listing
C. Channel listing
D. Swept spectrogram

Answer: D

Explanation: The FFT shows spectral activity in the frequency domain, while waterfall or swept spectrogram views attempt to represent RF activity over time

NEW QUESTION 72
You are repairing a misconfiguration in WMM settings on an AP. The aCWmin and aCWmax values were all changed.
What is the default aCWmax for AC_BK?

A. 1024
B. 1023
C. 15
D. 7

Answer: B

NEW QUESTION 75
When using a commercial WLAN protocol analyzer, you notice that it is listing vendor names for some APs and client STAs.
What is the source of this information?

A. Broadcast name resolution
B. Banner grabbing
C. DNS name resolution
D. Vendor OUI values

Answer: D

NEW QUESTION 78
You are considering disabling the data rates of 1, 2, 5.5 and 11 in the 2.4 GHz band. What advantage might this provide to the networks operating in this band?

A. The antennas will be able to zero in on the higher data rates better
B. The range of the PHY preamble and header will be reduced
C. Frames that must be transmitted at the lowest common data rate can be transmitted at higher data rates after the change
D. The RF signals will not travel as far

Answer: C

NEW QUESTION 81

When using Wireshark for protocol analysis, what filter will allow you to see only beacon frames?

A. wlan.fc.type_subtype = =0x05
B. wlan.fc.type_subtype = =0x0b
C. wlan.fc.type_subtype = =0x08
D. wlan.fc.type_subtype = =0x04

Answer: C

NEW QUESTION 84
You are creating a baseline configuration for a pool of 100 laptops related to Wi-Fi. The laptops have dual-band 802.11ac adapters. They are configured for aggressive roaming.
What additional setting might you configure to ensure they access the WLAN on the channels with the least interference assuming the enterprise WLAN is well-designed?

A. Band preference
B. USB speed
C. 802.11h
D. Power management

Answer: A

NEW QUESTION 89
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?

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

Answer: C

NEW QUESTION 93
You have been asked to recommend a protocol analysis solution that uses open source software and works with the Linux platform. It must provide decoding of 802.11ac frames and minimal support for reporting and statistics.
What solution would you recommend?

A. Wi-Fi Analyzer Pro
B. OmniPeek
C. Wireshark
D. CommView for Wi-Fi

Answer: C

NEW QUESTION 96
You have implemented centralized, infrastructure-based spectrum analysis. The Aps are configured to perform spectrum analysis in an ad-hoc manner and will go offline as Aps to perform this duty when needed.
What unique method of spectrum analysis monitoring is provided by this solution that is not typically available in a laptop-based analyzer?

A. Web-based viewing
B. Real-time FFT
C. Band selection
D. RBW adjustments

Answer: D

NEW QUESTION 97
Given: Adjacent Channel Interference (ACI) can cause frame corruption and poor performance in WLANs. You are using a protocol analyzer in the attempt to detect ACI.
What should you look for in such a scenario?

A. Look at Retry counts
B. Capture on the channel you think may be impacted by ACI and see if any frames are captured from adjacent channels
C. Look for frames with a low signal strength value in the radio tap header
D. Look at CRC errors

Answer: B

NEW QUESTION 98
As the WLAN engineer in your organization, you must troubleshoot performance problems related to co-channel interference (CCI).
What is a good measurement of CCI impact in addition to the number of APs seen on a channel?

A. The frequency used
B. Non-Wi-Fi device count
C. Retries

D. Utilization

Answer: A

NEW QUESTION 100
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