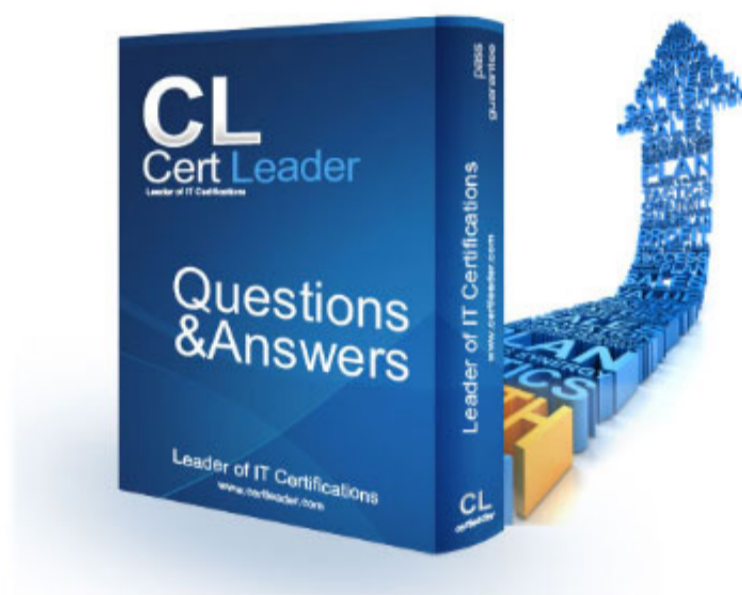


CWNA-107 Dumps

Certified Wireless Network Administrator (CWNA)

<https://www.certleader.com/CWNA-107-dumps.html>



NEW QUESTION 1

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from non-Wi-Fi sources
- B. Faulty drivers
- C. DoS attack
- D. Interference from other WLANs

Answer: D

NEW QUESTION 2

What primary metric of scanning can stations use to select the best AP for connectivity to the desired BSS?

- A. Signal strength of AP beacons received.
- B. PING latency when testing against an Internet server.
- C. FCS errors in frames transmitted to and from the AP.
- D. Throughput speed in Mbps.

Answer: A

NEW QUESTION 3

What non-standard WLAN solution attempts to give a longer transmission windows to devices with higher data rates than devices with lower data rates?

- A. AirTime Fairness
- B. Band Steering
- C. ARM
- D. RRM

Answer: A

NEW QUESTION 4

What factor is likely to cause the least impact on the application layer throughput of an 802.11n client station in a 2.4 GHz HT BSS?

- A. Increasing or decreasing the number of spatial streams in use by the client station and AP
- B. Implementation of several other clients in the same BSS using 802.11 g radios
- C. Implementing Fast BSS Transition (FT) for roaming
- D. RF interface from more than 10 nearby Bluetooth transmitters

Answer: A

NEW QUESTION 5

Return Loss is the decrease of forward energy in a system when some of the power is being reflected back toward the transmitter. What will cause high return loss in an RF transmission system, including the radio, cables, connectors and antenna?

- A. The use of cables longer than one meter in the RF system
- B. High output power at the transmitter and use of a low-gain antenna
- C. A Voltage Standing Wave Ratio (VSWR) of 1:1
- D. An impedance mismatch between components in the RF system

Answer: D

NEW QUESTION 6

What wireless networking term describes the increase of RF energy in an intentional direction with the use of an antenna?

- A. Directed Radiation
- B. Active Amplification
- C. Passive Gain
- D. Beam Digression

Answer: C

Explanation:

Reference

https://books.google.com.pk/books?id=sac_2j-lwwIC&pg=PA51&lpg=PA51&dq=passive+gain+increase+of+R

NEW QUESTION 7

When a STA has authenticated to an AP (AP-1), but still maintains a connection with another AP (AP-2), what is the state of the STA on AP-1?

- A. Transitional
- B. Unauthenticated and Unassociated
- C. Authenticated and Unassociated
- D. Authenticated and Associated

Answer: A

Explanation:

<https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-Design-Guide/Enterprise>

NEW QUESTION 8

When considering data rates available in HT and VHT PHY devices, in addition to the modulation, coding, channel width, and spatial streams, what impacts the data rate according to the MCS tables?

- A. The frequency band in use
- B. The client drives
- C. The guard interval
- D. The height of the antennas

Answer: C

Explanation:

Reference <https://arxiv.org/pdf/1702.03257.pdf>

NEW QUESTION 9

You are deploying a WLAN monitoring solution that utilizes distributed sensor devices. Where should sensors be deployed for best results? Choose the single best answer.

- A. Every 20 feet and alongside each AP
- B. Closer to the APs
- C. Closer to the client devices
- D. IN critical areas where WLAN performance must be high

Answer: C

NEW QUESTION 10

You administer a small WLAN with nine access points. As a small business, you do not run a RADIUS server and use WPA2-Personal for security. Recently, you changed the passphrase for WPA2-Personal in all APs and clients. Several users are now reporting the inability to connect to the network at times and it is constrained to one area of the building. When using a WLAN scanner, you see that the AP covering that area is online and has a strong signal. No other changes have been made to the environment and all access points are the same model. What is the likely problem?

- A. The AP that covers the problem area requires a firmware update
- B. The clients are improperly configured
- C. The AP that covers the problem area has failed
- D. The AP that covers the problem area is improperly configured

Answer: A

NEW QUESTION 10

What cipher suite is specified by the 802.11-2016 standard and is not deprecated?

- A. Temporal Key Integrity Protocol
- B. Extensible Authentication Protocol
- C. Counter Mode with CBC- MAC Protocol
- D. Wired Equivalent Privacy

Answer: C

NEW QUESTION 11

You have received a report of poor wireless connections on the third floor of a building under your administration. Three individuals have reported the problem. Apparently, the connections are reposting a strong signal, but the users cannot access the Internet. With the problem identified, what is the next logical step in the troubleshooting process?

- A. Perform corrective actions
- B. Discover the scale of the problem
- C. Create a plan of action or escalate the problem
- D. Verify the solution

Answer: A

NEW QUESTION 15

You are installing AP to be used by 23 laptops. All laptops will connect on the 5 GHz frequency band. A neighbor network uses channels 1 and 6. What channel should be used for this AP and why?

- A. Channel 6, because it is always best to use this channel
- B. A 5 GHz channel, because channels 1 and 6 are 2.4 GHz channels they have no impact on the decision
- C. Channel 1, because it is best to use the channel with the lowest frequency
- D. Channel 11, because channels 1 and 6 are in use nearby

Answer: D

NEW QUESTION 16

You are troubleshooting a WLAN problem and you suspect hidden node as the cause. What should you look for in a protocol analyzers?

- A. Frames with the HN bit set to 1
- B. Frames with the retry bit set to 0
- C. Frames transmitted from the AP without acknowledgement
- D. Retransmitted frames from multiple STAs at higher rates than other STAs

Answer: D

Explanation:

Reference <http://setup-wireless.blogspot.com/2008/11/wireless-hidden-node.html>

NEW QUESTION 20

You support a WLAN using dual-band 802.11ac three stream access points. All access points have both the 2.4 GHz and 5 GHz radios enabled and use 40 MHz channels in 5 GHz and 20 MHz channels in 2.4 GHz. A manager is concerned about the fact that each access point is connected using a 1 Gbps Ethernet link. He is concerned that the Ethernet link will not be able to handle the load from the wireless radios. What do you tell him? 2.4

- A. His concern is valid and the company should upgrade all Ethernet links to 10 Gbps immediately.
- B. His concern is valid and the company should immediately plan to run a second 1 Gbps Ethernet link to each AP.
- C. His concern is invalid because the AP will compress all data before transmitting it onto the Ethernet link.
- D. Due to 802.11 network operations and the dynamic rates used by devices on the network, the two radios will likely not exceed the 1 Gbps Ethernet link.

Answer: A

NEW QUESTION 22

An RF signal sometimes bends as it passes through some material other than free space. What is the term that describes this behavior?

- A. Reflection
- B. Refraction
- C. Scattering
- D. Warping

Answer: B

NEW QUESTION 25

A client STA must choose the best AP for connectivity. As part of the evaluation, it must verify compatible data rates. What can the client STA use to verify that an AP supports the same data rates that it supports?

- A. Beacon frames transmitted by the AP
- B. Data frames sent between the AP and current clients STAs
- C. Authentication frames transmitted by the other client STAs
- D. Probe request frames transmitted by other client STAs

Answer: D

Explanation:

Reference

<https://supportforums.cisco.com/t5/wireless-mobility-documents/802-11-sniffer-capture-analysis-management-f>

NEW QUESTION 30

In a mesh BSS (MBSS), according to the 802.11-2016 standard, what device connects the mesh to an Ethernet network?

- A. Mesh Gate
- B. Mesh Switch
- C. Mesh Router
- D. Mesh Portal

Answer: A

Explanation:

Reference https://www.cwnp.com/uploads/802-11s_mesh_networking_v1-0.pdf

NEW QUESTION 32

When using an RF splitter to connect one transceiver to sector antennas loss is incurred. What is this loss called?

- A. Conversion loss
- B. Intentional loss
- C. Through loss
- D. Active loss

Answer: C

NEW QUESTION 34

You are using a site survey tool for post-implementation validation. You have installed the appropriate adapter driver and imported a floor plan. Now, you want to take the next step in proper tool use. What must you do before gathering survey data after the floor plan is imported?

- A. Install iPerf
- B. Install WinPCAP
- C. Calibrate the floor plan
- D. Nothing, you can simply start capturing signal readings

Answer: C

NEW QUESTION 39

What Linux shell command can be used to view the hardware and PHY capabilities of a wireless adapter in detail including channel widths, output power setting, channels supported, and more?

- A. ifconfig
- B. iw phy
- C. netsh wlan show device
- D. iwconfig

Answer: D

NEW QUESTION 40

You are evaluating a connection that states the data rate is 150 Mbps. What is the expected throughput of this connection?

- A. Less than 150 Mbps because of 802.11 overhead and contention
- B. 54 Mbps because that is the actual maximum throughput of an 802.11 connection
- C. More than 150 Mbps because of compression
- D. 150 Mbps because the data rate is equal to the throughput

Answer: A

NEW QUESTION 44

What 802.11 network configuration would result in multiple stations broadcasting Beacon frames with the same BSSID but with different source addresses?

- A. A single AP supports multiple BSSs with different SSIDs.
- B. An SCA network is in use.
- C. Multiple APs have been loaded with the same configuration from an image file.
- D. An IBSS is used instead of a BSS.

Answer: D

Explanation:

Reference <https://www.safaribooksonline.com/library/view/80211-wireless-networks/0596100523/ch04.html>

NEW QUESTION 47

What is the most effective method of testing roaming in relation to 802.11 VoIP handsets?

- A. Use the built-in roaming monitor built into all VoIP handsets.
- B. Use a protocol analyzer to capture the traffic generated when a laptop roams.
- C. Place a call with the handset and move around the facility to test quality during roaming.
- D. Use a spectrum analyzer to monitor RF activity during a VoIP call.

Answer: C

NEW QUESTION 51

You are troubleshooting a client problem with a 2.4 GHz WLAN connection. The client is experiencing surprisingly low data rates during the work day. You analyze the workspace outside of business hours and detect a strong signal with a typical noise floor at the client location. During working hours, the user works with a laptop in the area and uses an external USB hard drive for continuous data access. The user also states that the laptop works as expected on her home network. The user working approximately 8 feet away from this client experiences no problems. Based on this information, what is the likely cause of the problem?

- A. The laptop has a failing wireless adapter
- B. the AP is overloaded during the work day
- C. The external hard drive is USB 3.0 and is causing a significant increase in the noise floor when in use
- D. The drives in the laptop are corrupt

Answer: B

NEW QUESTION 53

What is the final step in an effective troubleshooting process?

- A. Document the results
- B. Disable the WLAN
- C. Notify the users of problem resolution
- D. Verify the solution

Answer: A

NEW QUESTION 58

What statement about the beamwidth of an RF antenna is true?

- A. Horizontal and vertical beamwidth are calculated at the point where the main lobe decreases power by 3 dB.
- B. Vertical beamwidth is displayed (in degrees) on the antenna's Azimuth chart.
- C. When antenna gain is lower, the beamwidth is also lower in both the horizontal and vertical dimensions.
- D. The beamwidth patterns on an antenna polar chart indicate the point at which the RF signal stops propagating.

Answer: A

NEW QUESTION 59

In which plane of the three networking planes is an access point configured by a WLAN controlled?

- A. Control
- B. Management
- C. Security
- D. Data

Answer: B

NEW QUESTION 64

In WLAN security, what authentication method always creates Layer 2 dynamic encryption keys?

- A. Shared Key
- B. WEP
- C. HTTPS captive portal
- D. EAP-TLS

Answer: B

Explanation:

Reference <https://books.google.com.pk/books?id=0ZWLn57EdpsC&pg=PA142&lpg=PA142&dq=WLAN+security,+what>

NEW QUESTION 66

Which IEEE 802.11 physical layer (PHY) specification includes support for and compatibility with both ERP and HR/DSSS?

- A. VHT (802.11ac)
- B. OFDM (802.11a)
- C. DSSS (802.11-Prime)
- D. HT (802.11n)

Answer: D

NEW QUESTION 71

You are reporting on the RF environment in you facility. The manager asks you do describe the noise floor noted in the report. Which of the following is the best explanation:?

- A. The energy radiated by flooring materials that causes interference in the 2.4 GHz and 5 GHz bands.
- B. The noise caused by elevators, microwave ovens, and video transmitters.
- C. The RF energy that exists in the environment from intentional and unintentional RF radiators that forms the baseline above which the Intentional signal of your WLAN must exist.
- D. The extra energy radiated by access points and client devices beyond that intended for the signal.

Answer: B

Explanation:

Reference <http://blog.prosig.com/2008/04/14/what-is-db-noise-floor-dynamic-range/>

NEW QUESTION 73

Which one of the following 802.11 PHYs is more likely to be used in an industrial deployment but not likely to be used in standard office deployments?

- A. SIG
- B. VHT
- C. OFDM
- D. HT

Answer: B

NEW QUESTION 78

Which one of the following channels can be used for VHT transmissions?

- A. 44
- B. 1
- C. 7
- D. 13

Answer: A

NEW QUESTION 79

What 802.11 PHY uses available space in very low frequency ranges that is not in use at the time by broadcast video signals?

- A. DMG
- B. SIG
- C. DSSS
- D. TVNT

Answer: C

NEW QUESTION 80

A WLAN transmitter that emits a 50 mW signal is connected to a cable with 3 dB loss. If the cable is connected to an antenna with 9dBi gain, what is the EIRP at the antenna element?

- A. 23 dBm
- B. 26 dBm
- C. 13 dBm
- D. 10 dBm

Answer: A

NEW QUESTION 82

You are configuring an access point to use channel 128. What important fact should be considered about this channel?

- A. It is a 22 MHz channel so it will overlap with the channels above and below it
- B. It is a 2.4 GHz frequency band 40 MHz channel, so it should not be used
- C. It is a channel that is unsupported by most access points
- D. It is a channel that likely requires DFS when used

Answer: D

NEW QUESTION 83

You are attempting to explain RF shadow and how it can cause lack of coverage. What common building item frequently causes RF shadow and must be accounted for in coverage plans?

- A. Wooden doors
- B. Carpeted floors
- C. Elevators
- D. Cubicle partitions

Answer: D

NEW QUESTION 84

You are evaluating a connection that states the data rate is 150 Mbps. What is the expected throughput of this connection?

- A. Less than 150 Mbps because of 802.11 overhead and contention
- B. 54 Mbps because that is the actual maximum throughput of an 802.11 connection
- C. More than 150 Mbps because of compression
- D. 150 Mbps because the data rate is equal to the throughput

Answer: A

NEW QUESTION 89

You are implementing a multi-AP WLAN and fast secure roaming is essential. Which one of the following methods is an IEEE 802.11 standard method for fast roaming?

- A. Band steering
- B. FT
- C. OKC
- D. Load balancing

Answer: B

Explanation:

Reference

<https://www.networkcomputing.com/wireless-infrastructure/wifi-fast-roaming-simplified/1993108957>

NEW QUESTION 94

What statement about 802.11 WLAN bridges is true?

- A. WLAN bridges only work in the 2.4 GHz frequency band and they support only SISO communications
- B. WLAN bridges must use a channel with acceptable SNR at both transceivers to maintain the desired data rate bi-directionally
- C. WLAN bridges may support MIMO communications, but only if used in the 5 GHz frequency band

D. WLAN bridges must be implemented such that no interference occurs on the channel anywhere between the two endpoints used to establish the bridge

Answer: C

NEW QUESTION 98

XYZ Company has decided to install an 802.11 WLAN system that will support 1000 wireless users, but they are concerned about network security. XYZ is interested in deploying standardized security features. In addition to WPA2-Enterprise with PEAP and role-based access control, XYZ would like to support management frame protection as well as a fast secure roaming protocol for future mobile handsets.

As XYZ Company selects a product to deploy, what two IEEE amendments, which are included in 802.11-2016, should be supported to provide the management frame protection and fast secure roaming security features?

- A. 802.11j and 802.11k
- B. 802.11r and 802.11k
- C. 802.11z and 802.11w
- D. 802.11r and 802.11w

Answer: D

NEW QUESTION 100

What phrase defines Equivalent Isotropically Radiated Power (EIRP)?

- A. Power supplied from the transmission line to the antenna input
- B. The power output from the radio after cable losses
- C. The power output from the radio into the RF cable
- D. The highest RF signal strength that is transmitted from a given antenna

Answer: D

NEW QUESTION 105

An IEEE 802.11 amendment is in the draft state. What impact does this draft amendment have on the 802.11 standard?

- A. No impact: Until an amendment is ratified, it does not become part of the standard.
- B. Devices will be released based on the draft amendment and the draft amendment features are part of the standard.
- C. The standard is changed to reflect the new capabilities as soon as an amendment enters the draft stage.
- D. No impact: Draft amendments do not become part of the standard until a working group is formed.

Answer: A

NEW QUESTION 109

You are using a tool that allows you to see signal strength for all Aps in the area with a visual representation. It shows you SSIDs available and the security settings for each SSID. It allows you to filter by frequency band to see only 2.4 GHz networks or only 5 GHz networks. No additional features are available. What kind of application is described?

- A. Protocol analyzer
- B. Site survey utility
- C. Spectrum analyzer
- D. WLAN scanner tool

Answer: D

NEW QUESTION 114

A standard PoE injector is used to power an access point requiring 802.3at. CAT6 cabling is in use. What is the maximum distance supported between the access point and the Ethernet switch with the use of a midspan power injector?

- A. 100 meters
- B. 300 meters
- C. 328 meters
- D. 200 meters

Answer: A

NEW QUESTION 118

You are attempting to explain RF shadow and how it can cause lack of coverage. What common building item frequently causes RF shadow and must be accounted for in coverage plans?

- A. Wooden doors
- B. Carpeted floors
- C. Elevators
- D. Cubicle partitions

Answer: D

NEW QUESTION 120

When replacing the antenna of a WLAN device with a similar antenna type that has a higher passive gain, what antenna characteristic will decrease?

- A. Range
- B. Beam width
- C. Active gain
- D. Receive sensitivity

Answer: B

NEW QUESTION 121

What 802.11 PHY uses available space in very low frequency ranges that is not in use at the time by broadcast video signals?

- A. DMG
- B. SIG
- C. DSSS
- D. TVHT

Answer: C

Explanation:

<https://www.cwnp.com/802-11ac-vht-just-the-facts/>

NEW QUESTION 124

A dual-band 802.11ac AP must be powered by PoE. As a class 4 device, what power level should be received at the AP?

- A. 30 W
- B. 25.5 W
- C. 15.4 W
- D. 12.95 W

Answer: C

NEW QUESTION 125

You are reconfiguring an AP to use the short guard interval. How long will the new guard interval duration be after the change?

- A. 400 ns
- B. 10 ms
- C. 800 ns
- D. 104 ms

Answer: A

Explanation:

Reference <https://www.sonicwall.com/en-us/support/knowledge-base/170504672960493>

NEW QUESTION 128

When considering data rates available in HT and VHT PJY devices, in addition to the modulation, coding, channel width, and spatial streams, what impacts the data rate according to the MCS tables?

- A. The Frequency band in use
- B. The client drivers
- C. The guard interval
- D. The height of the antennas

Answer: C

Explanation:

Reference <https://arxiv.org/pdf/1702.03257.pdf>

NEW QUESTION 129

What standard is referenced in the 802.11-2016 specification and is recommended for robust WLAN client security?

- A. SSID hiding
- B. WEP
- C. 802.1X/EAP
- D. IPSec VPN

Answer: C

NEW QUESTION 130

Your manager asked you to locate a solution that allows for centralized monitoring of WLAN performance over time. He wants a single pane of glass for administration and monitoring of the solution. What do you recommend?

- A. AP-based spectrum analysis
- B. Laptop-based spectrum analyzers
- C. Overlay WLAN monitoring solution
- D. Laptop-based protocol analyzers

Answer: A

NEW QUESTION 132

You are attempting to locate the cause of a performance problem in two WLAN cells in a mostly overlapping coverage area. You note that one AP is on channel 1 and the other is on channel 2. When you document your findings, what term do you use to describe the problem in this configuration?

- A. Bluetooth interference
- B. Non-Wi-Fi interference
- C. CCI
- D. ACI

Answer: CD

NEW QUESTION 135

You are configuring an access point to use channel 128. What important fact should be considered about this channels?

- A. It is a 22 MHz channel so it will overlap with the channels above and below it
- B. It is a 2.4 GHz frequency band 40 MHz channel, so it should not be used
- C. It is a channel that is unsupported by most access points
- D. It is a channel that likely requires DFS when used

Answer: D

NEW QUESTION 137

When an ACK frame is not received by the transmitting STA, what is assumed?

- A. The frame was correctly delivered
- B. The frame was not delivered and must be retransmitted
- C. The receiver is offline
- D. The receiver processed the frame, but did not respond with an ACK frame because 802.11w is enabled

Answer: B

NEW QUESTION 141

When a client station sends a broadcast probe request frame with a wildcard SSID, how do APs respond?

- A. For each probe request frame, only one AP may reply with a probe response.
- B. Each AP responds in turn after preparing a probe response and winning contention.
- C. Each AP checks with the DHCP server to see if it can respond and then acts accordingly.
- D. After waiting a SIFS, all APs reply at the same time with a probe response.

Answer: B

NEW QUESTION 145

You are attempting to locate the cause of a performance problem in two WLAN cells in a mostly overlapping coverage area. You note that one AP is on channel 1 and the other is on channel 2. When you document your findings, what term do you use to describe the problem in this configuration?

- A. Bluetooth interference
- B. Non-Wi-Fi interference
- C. CCI
- D. ACI

Answer: C

NEW QUESTION 150

You are troubleshooting a client issue on a Windows laptop. The laptop can see and connect to 2.4 GHz APs, but is does not even see 5 GHz APs. While evaluating the issue, you determine that this problem is happening for all of the laptops of this model in the organization. Several other tablets connect on channel 48 and channel 52 in the same work areas. What is the likely problem?

- A. The clients are configured to use WPA and 5 GHz channels only support WPA2.
- B. The antennas in the laptop have insufficient gain to detect the 5 GHz signals.
- C. The access points are configured to disallow 5 GHz.
- D. The client drivers are faulty and should be upgraded.

Answer: B

NEW QUESTION 154

You are performing a post-implementation validation survey. What basic tool can be used to easily locate areas of high co-channel interference?

- A. Throughput tester
- B. Access point spectrum analyzer
- C. Laptop-based spectrum analyzer
- D. Wi-Fi scanner

Answer: B

NEW QUESTION 156

You are tasked with performing a throughput test on the WLAN. The manager asks that you use open source tools to reduce costs. What open source tool is designed to perform a throughput test?

- A. IxChariot
- B. Python
- C. PuTTY
- D. iPerf

Answer: D

NEW QUESTION 160

Lynne runs a small hotel, and as a value added for his customers he has implemented a Wi-Fi hot-spot. Lynne has read news articles about how hackers wait at hot-spots trying to take advantage of unsuspecting users. He wants to avoid this problem at his hotel.

What is an efficient and practical step that Lynne can take to decrease the likelihood of active attacks on his customers' wireless computers?

- A. Implement Network Access Control (NAC) and require antivirus and firewall software along with OS patches.
- B. Implement an SSL VPN in the WLAN controller that initiates after HTTPS login.
- C. Enable station-to-station traffic blocking by the access points in the hotel.
- D. Require EAP_FAST authentication and provide customers with a username/password on their receipt.

Answer: B

NEW QUESTION 163

ABC Company is planning to install a new 802.11ac WLAN, but wants to upgrade its wired infrastructure first to provide the best user experience possible. ABC Company has hired you to perform the RF site survey. During the interview with the network manager, you are told that the new Ethernet edge switches will support VoIP phones and 802.11 access points, both using 802.3 PoE.

After hearing this information, what immediate concerns do you note?

- A. The power budget in the edge switches must be carefully planned and monitored based on the number of supported PoE devices.
- B. The edge Ethernet switches should support Ether-channel to get the best results out of the network.
- C. VoIP phones and 802.11 access points should not be powered by the same edge switch due to distortion.
- D. If the switches are in optimal locations for VoIP phones, they are likely to be suboptimal locations for 802.11 APs

Answer: A

NEW QUESTION 168

You are troubleshooting a controller-based AP that is unable to locate the controller. DHCP is not use and the controller is located at 10.10.10.81/24 while the AP is on the 10.10.16.0/24 network. What should be inspected to verify proper configuration?

- A. NTP
- B. BOOTH
- C. DNS
- D. AP hosts file

Answer: C

NEW QUESTION 173

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