

## CWNP.CWDP-304.v2025-03-08.q105

Exam Code:	CWDP-304
Exam Name:	Certified Wireless Design Professional
Certification Provider:	CWNP
Free Question Number:	105
Version:	v2025-03-08
# of views:	1063
# of Questions views:	1050
<a href="https://www.exam-tests.com/CWDP-304-exam/CWNP.CWDP-304.v2025-03-08.q105.html">https://www.exam-tests.com/CWDP-304-exam/CWNP.CWDP-304.v2025-03-08.q105.html</a>	

### NEW QUESTION: 1

In the enterprise, when is WPA/WPA2-Personal generally a recommended solution?  
(Choose all that apply.) Response:

- A. When mobile device applications require high-latency roaming times between APs
- B. When client devices are provisioned in bulk and would otherwise share 802.1X credentials
- C. When the network security policy demands that each user have unique access credentials
- D. When client devices do not support 802.1X/EAP

**Answer: B,D ([LEAVE A REPLY](#))**

### NEW QUESTION: 2

What is the minimum PoE budget needed on a switch to support 6 (six) APs that can only be powered using IEEE 802.3at if no other details are provided?

- A. 320 W
- B. 60 W
- C. 240 W
- D. 180 W

**Answer: ([SHOW ANSWER](#))**

### NEW QUESTION: 3

If a 24-port switch has a PoE budget of 740 W, how many IEEE 802.3at devices can certainly be powered on by it?

- A. 12
- B. 18
- C. 6

D. 24

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 4**

In high-density environments, such as stadiums and convention centers, what extra factor has to be taken into account that can attenuate Wi-Fi signals when these environments are having an event?

- A. People
- B. I-Beams
- C. Fire doors
- D. Thick walls

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 5**

A cable with 2.5 dB of loss is used to measure the return loss of an antenna. The measured value in-band is shown to be larger than 20 dB. What is the actual return loss of the antenna, and is it considered to be a reasonable value?

Response:

- A. Larger than 17.5 dB and yes
- B. Larger than 17.5 dB and no
- C. Larger than 15 dB and maybe
- D. Larger than 15 dB and yes

**Answer: D (LEAVE A REPLY)**

**NEW QUESTION: 6**

Which type of authentication and encryption method is mandatory for Voice Enterprise certified devices as specified by the Wi-Fi Alliance?

- A. WPA2/AES Enterprise
- B. WPA2/TKIP Enterprise
- C. WPA/TKIP Personal
- D. WPA2/AES Personal

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 7**

What advantage provided by 802.11n and 802.11ac is not usable in 1X1:1 low-end client devices?

Response:

- A. Channel bonding
- B. Mandatory data rates
- C. MCS data rates
- D. Maximal Ratio Combining

**Answer: B (LEAVE A REPLY)**

**NEW QUESTION: 8**

When doing some frame capturing over the air during a voice call, you realized that frames on the downlink (from the AP to the client) direction are not being transmitted with the correct UP value for voice frames, but on the uplink (from the client to the AP) direction are being transmitted correctly. What's the cause of this issue?

- A. Bad client driver
- B. Faulty antenna on the AP
- C. Somewhere on the wired network QoS markings aren't being trusted
- D. AP is not receiving enough PoE, thus not using QoS features

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 9**

ABC Company has a WLAN controller with 10 controller-based APs; the Voice SSID is configured for centralized data forwarding. Each AP is connected to an access port on a layer-2 Ethernet switch. Each layer-2 switch is uplinked to a single layer-3 core Ethernet switch. The WLAN controller is connected directly to the layer-3 core Ethernet switch. Layer-3 tunnels are created between all controller-based APs and the WLAN controller. A voice server is connected to the layer-3 Ethernet switch.

When a voice-enabled QoS STA sends an IP data packet to a voice server in this scenario, the DSCP value carried in the STA's IP data packet gets mapped to what and by which device?

- A. The DSCP value is mapped to an IEEE 802.1Q priority tag value by the WLAN controller.
- B. The DSCP value is mapped to an IEEE 802.1Q VLAN tag by the access point.
- C. The DSCP value is mapped to the DSCP value in the encapsulating IP header by the layer-3 switch.
- D. The DSCP value is mapped to an IEEE 802.1p (802.1D-2004) UP value by the access point.

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 10**

When selecting a centralized WLAN architecture, what new problem may arise when you change the data forwarding model from centralized to distributed?

Response:

- A. The router between the APs and the controller must be made aware of the APs as forwarding client STAs.
- B. All RRM controls will also need to be distributed to a master AP that acts as a channel and transmit power arbiter for other APs in the ESS.

**C.** Centralized control functions, such as key management and distribution, RRM, and load balancing will no longer be supported.

**D.** APs that were designed for a centralized forwarding model may not support all features in distributed forwarding mode.

**Answer:** [\(SHOW ANSWER\)](#)

#### **NEW QUESTION: 11**

In your company's WLAN, you expect to have a mixed client PHY environment and plan to use protection mechanisms. The protection mechanism used by your client devices is configurable.

What is the best protection mechanism for backward compatibility of 802.11n devices with 802.11b devices?

**A.** CTS-to-Self

**B.** WMM Protection

**C.** SMPS

**D.** Dual-CTSRTS/CTS

**Answer:** **A** [\(LEAVE A REPLY\)](#)

#### **NEW QUESTION: 12**

A bandpass filter has a maximum in-band loss of 1.5 dB, ripple of 0.4 dB, and a return loss of 15 dB. What is the minimum in-band loss?

Response:

**A.** 1.9 dB

**B.** 1.1 dB

**C.** 1.5 dB

**D.** 13.5 dB

**Answer:** **B** [\(LEAVE A REPLY\)](#)

#### **NEW QUESTION: 13**

What type of standards-based encryption is used by office extension APs for the traffic tunnel?(Choose all that apply.) Response:

**A.** DTLS

**B.** CAPWAP

**C.** TKIP

**D.** AES

**E.** LWAPP

**Answer:** **A** [\(LEAVE A REPLY\)](#)

#### **NEW QUESTION: 14**

You are testing a VoWLAN deployment, and your communication measurements show a certain amount of lost packets. What would be an acceptable packet error rate value to still provide acceptable call quality?

- A. No more than 8% PER max should be acceptable
- B. No more than 4% PER max should be acceptable
- C. No more than 1% PER max should be acceptable
- D. There should be 0% error in a VoWLAN type of deployment

**Answer: A (LEAVE A REPLY)**

#### **NEW QUESTION: 15**

What are the best practices for better location accuracy when deploying Wi-Fi RTLS?

- A. Place APs on the center of the required area and make sure that every client device is able to hear at least two APs
- B. Place APs on the center of the required area and make sure that every client device is able to hear" at least three APs
- C. Place APs on the perimeter of the required area and make sure that every client device is able to "hear" at least one AP
- D. Place APs on the perimeter and throughout the required area and make sure that every client device is able to "hear" at least three APs

**Answer: D (LEAVE A REPLY)**

#### **NEW QUESTION: 16**

Which one of the following is an essential metric to measure when performing a survey and design for VoIP across WLANs?

- A. Throughput rates above 50 Mbps
- B. Data rates above 100 Mbps
- C. PoE provided to wireless handsets
- D. Latency

**Answer: D (LEAVE A REPLY)**

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#### **NEW QUESTION: 17**

Your customer is using PSK as their only authentication. They have an industry requirement to move to a stronger solution. Your recommendation is to move to a certificate-based type of authentication where both the client and server require certificates.

Which EAP type would be the best fit?

- A. EAP-TTLS
- B. PEAP
- C. EAP-FAST
- D. EAP-TLS

**Answer: D ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 18**

While performing a validation site survey, you realize that overlapping channels are being used on the 2.4 GHz band due to the automatic channel assignment algorithm of the WLAN infrastructure.

What should you do to prevent this?

- A. Reconfigure the network to use static channel plans because automatic channel assignment algorithms are all broken
- B. Purchase and deploy new APs from a different vendor
- C. Leave it as it is; sometimes using all 11 channels in 2.4 GHz gives the optimum performance result
- D. Reconfigure the automatic channel assignment settings to use only channels 1, 6, and 11

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 19**

During a post-validation survey, you find an area lacking any detectable Wi-Fi signal at all. It is located behind an elevator shaft. What is a common solution to this problem?

- A. Turn up the power on the three APs closest to that area
- B. Move one or more APs so that indoor propagation results in coverage in that area or install another AP on that side of the elevator shaft
- C. Replace all the clients in that area with clients having better receive sensitivity
- D. Install antennas with at least 3 more dB of gain on the two APs closest to that area

**Answer: B ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 20**

Given: A WLAN controller is connected to ABC Company's core layer 3 Ethernet switch with an IEEE 802.1Q trunk connection. The WLAN controller's native

VLAN is VLAN 6 and its IP address is 10.0.14.2 /24. Lightweight APs supporting centralized forwarding are connected to the network on VLANs 7, 8, and 9, and they each build a Layer 3 tunnel back to the WLAN controller's IP address. The dynamically assigned IP addresses received by each AP from a DHCP server will be \_\_\_\_\_.

- A. Associated with the native VLAN of the WLAN controller.
- B. Associated with a non-routable VLAN until the MAC address of the AP is removed from the controller's MAC filter
- C. Associated with VLAN 1, the default VLAN for new APs
- D. Associated with the VLAN on which they are connected.

**Answer: D (LEAVE A REPLY)**

#### **NEW QUESTION: 21**

When performing a spectrum analysis walkthrough of a facility for which you will be creating a WLAN design you detect an interferer. What should you do?

- A. Make note of it using the reporting features of your spectrum analyzer or by documenting it elsewhere
- B. Locate and remove the interferer immediately so that your WLAN works well
- C. Walk away from the project because it is best to only deploy in clean environments with no other RF signals
- D. Make a mental note of it so that you can include it in your design

**Answer: (SHOW ANSWER)**

#### **NEW QUESTION: 22**

An amplifier has a 1 dB compression point of 32 dBm and a gain of 20 dB. Which is the highest average input power shown here that would be safe to operate a 24 Mbps 802.11g signal so that spectral regrowth is not a problem?

Response:

- A. #5 dBm
- B. 5 dBm
- C. 10 dBm
- D. 0 dBm

**Answer: (SHOW ANSWER)**

#### **NEW QUESTION: 23**

You have performed a validation site survey after deploying a WLAN infrastructure that is an All-Wireless-Office. One specific application of your customer is experiencing delay when using the application after moving from wired connectivity. After your validation, you realized that all APs are using 80 MHz channel-widths instead of 20 MHz on the 5 GHz band, as it was designed. What can be done to resolve the delay on this application?

- A. Power-off half of the APs to reduce CCI and keep 80 MHz channel-widths

- B. APs should be using 160 MHz channel-widths to get more throughput
- C. Reconfigure to use 20 MHz channel-widths, so reuse of the frequency is more effective
- D. Add more APs using 80 MHz channel-widths

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 24**

You are using site software design features. You have imported a floor plan, but the simulated RF coverage is nowhere close to the real RF coverage you see with a walkabout.

Given that the simulation is significantly different, when step was likely missed when using the software?

Response:

- A. Calibration
- B. Adding extra APs to simulate interference
- C. Conversion to DWG
- D. Conversion to PNG

**Answer:** A ([LEAVE A REPLY](#))

#### **NEW QUESTION: 25**

What kind of applications has the character traits of many communications back and forth between the server and client for each transaction initiated by the user?

For example, several files, images and other data files may be required to download to the client with each click from the user. Choose the best answer.

Response:

- A. web-based application
- B. real-time application
- C. mobile apps
- D. high-data bandwidth application
- E. console management interfaces

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 26**

A customer wants to deploy a WLAN that employs centralized forwarding. What LAN requirements should you look for?

Response:

- A. High-speed Ethernet links
- B. Layer 3 at the access layer
- C. Layer 2 at the distribution layer
- D. Routing redundancy protocol

**Answer:** A ([LEAVE A REPLY](#))

**NEW QUESTION: 27**

What is a typical characteristic of barcode scanners?

- A. Implementation of 3x3 3 chipsets
- B. High throughput requirements
- C. No support for any 802.11 security solutions
- D. Low throughput requirements

**Answer: D ([LEAVE A REPLY](#))**

**NEW QUESTION: 28**

A business traveler from North America is in Europe. The hotel only provides coverage in 2.4 GHz. The traveler connects to the hotel's SSID and notices an AP in the hotel room. However, the laptop reports a very low RSSI when connected. The traveler does not have the same problem when connecting in the lobby. What would be the most likely cause of the low RSSI in the hotel room?

- A. The switchport that the AP is connected to is only capable of transmitting at 10 Mbps.
- B. The AP in the room is using Bluetooth instead of Wi-Fi.
- C. The AP in the room is using ZigBee instead of Wi-Fi.
- D. The AP in the room is transmitting on channel 13 and the traveler associated to a non-channel 13 AP located elsewhere.

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 29**

What is the purpose of a Physical Installation Guide document?

- A. To provide sources for purchasing the equipment needed to implement the WLAN
- B. To provide clear instructions on the locations and mounting methods, and possible configuration steps for APs
- C. To prove that the WLAN meets the organization's requirements
- D. To inform the Install technicians of WLAN frame exchanges and communication methods

**Answer: B ([LEAVE A REPLY](#))**

**NEW QUESTION: 30**

What term refers to the security practice of obfuscating actual data from unintended receivers as the data crosses the transmission medium?

Response:

- A. Accounting
- B. Confidentiality
- C. Authentication
- D. Integrity
- E. Nonrepudiation

**Answer: ([SHOW ANSWER](#))**

### NEW QUESTION: 31

What are the two types of WLAN discovery/scanning?

Response:

- A. Automatic
- B. Hidden
- C. Passive
- D. Probe
- E. Active
- F. Manual

Answer: ([SHOW ANSWER](#))

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### NEW QUESTION: 32

What commonly causes a client-to-AP link imbalance?

- A. The AP's antenna gain is lower than the client's antenna gain
- B. The AP's transmit power is significantly lower than the client's transmit power
- C. The client's antenna gain is lower than the AP's antenna gain
- D. The client's transmit power is significantly lower than the AP's transmit power

Answer: ([SHOW ANSWER](#))

### NEW QUESTION: 33

To ensure that your design meets the requirements of the WLAN, what should be defined in your WLAN design software that will result in different requirements at varying locations on the floor plan?

- A. Cable runs
- B. Project name
- C. Requirement areas
- D. Heatmap colors

Answer: ([SHOW ANSWER](#))

### NEW QUESTION: 34

During an RFP analysis, one of the vendors mentioned that you'll need to upgrade your Gigabit Ethernet switches to MultiGig switches to ensure support for 802.11ac and 802.11ax, which both offer data rates over 1Gbps. Why is this not sound advice?

- A. Because neither of the technologies support data rates over 1Gbps
- B. Because 802.11ac only supports one spatial stream
- C. Management overhead that is normal in WLANs will reduce the throughput of the client devices
- D. Because 802.11ax doesn't support channel bonding

**Answer:** ([SHOW ANSWER](#))

### **NEW QUESTION: 35**

A wireless engineer from your company performed a site survey in an office building where a wireless network extension was needed. He reports that while performing a Layer 1 sweep near a meeting room full of people, he detected RF activity with a very low duty cycle. He is unsure how to interpret what he recorded to determine its impact on a future Wi-Fi network.

What is true about this RF environment and its potential impact on the WLAN?

- A. The signal affects the entire spectrum and will render the wireless network unusable. It must be located and removed.
- B. The signal has a low duty cycle and should not be of major impact on the wireless network.
- C. The signal is typical of a high radio card background noise. It shows that the card used for the Layer 1 sweep should be replaced and the Layer 1 sweep re-
- D. The signal is alternating between peaks (high interference level) and valleys (low interference level).

The network channel design must be built to avoid the affected peak frequencies.

**Answer:** B ([LEAVE A REPLY](#))

### **NEW QUESTION: 36**

You have designed a WLAN with a plan for 87 APs in a large office building. The customer has informed you that the budget is not as large as they hoped and they can only purchase 53 APs. What action should be taken?

- A. Simply increase the output power of the APs by 30 percent to accommodate for the smaller number of purchased APs
- B. Perform a complete redesign of the wireless network and inform the customer if some original requirements cannot be accomplished
- C. Remove as many walls as possible within the facility so that the signals can travel a greater distance
- D. Use only 2.4 GHz radios because the signals can be received at a greater distance

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 37**

In what circumstance would you not enable DFS channels on a WLAN infrastructure?

- A. In an airport
- B. In any home office
- C. In any office complex
- D. In any stadium

**Answer: A ([LEAVE A REPLY](#))**

**NEW QUESTION: 38**

During a post-deployment verification, you are requested to troubleshoot an area where users are experiencing poor throughput. They are using data communication only, mainly from laptops. You captured the frame showing an incorrect FCS. This frame is typical of those that were captured by the analyzer.

What does this frame reveal about the RF network in this area?

- A. One station seems to be streaming video, thus may have reserved significant bandwidth via admission control
- B. Contention Free is in place in this network, which may starve some non-QoS stations from access
- C. Multipath or excessive collisions seem to be an issue in this area
- D. The AP seems to be too far to provide enough coverage to this area

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 39**

You have initiated a site survey to be performed and the team has been onsite and is halfway through gathering the necessary data.

The project sponsor just asked you to make sure the WLAN supports radio frequency identification (RFID) location tracking. How would you possibly characterize this situation?

Response:

- A. Scope creep has occurred.
- B. The 802.3af RTLS standard should be incorporated into the AP configuration.
- C. The power requirements on the UPS need to be evaluated.
- D. The 802.11g standard incorporates location tracking.
- E. Any WLAN will support location tracking.

**Answer: A ([LEAVE A REPLY](#))**

**NEW QUESTION: 40**

You are planning for client devices in a WLAN that is be upgraded to 802.11ac. Which one of the following devices is more likely to have support for 3x3:3 radios and 256 QAM?

Response:

- A. laptop
- B. tablet
- C. mobile phone
- D. USB 2.0 adapter
- E. handheld scanner

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 41**

In an RSN requiring low-latency reassociations and no fast secure roaming protocols, what security solutions are ideal for protecting VoWiFi communication?(Choose all that apply.)

Response:

- A. 802.1X/EAP
- B. 802.1X/EAP
- C. WPA-Personal
- D. WPA2-Enterprise
- E. WPA2-Personal
- F. WEP

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 42**

When installing APs on high ceilings, what should be the most common PPE to be used?

- A. Glasses, gloves and jacket
- B. Clean suits, gloves and jacket
- C. Clean suits, masks and glasses
- D. Hardhat, high visibility vest and body belt

**Answer:** D ([LEAVE A REPLY](#))

#### **NEW QUESTION: 43**

During a validation site survey, you realize that the installers mounted some of the APs on the wall when the design called for a ceiling mount. They said that this was done because the cabling company did not have the right tools to run the cables above the ceiling. You know that this will cause a difference in how the Wi-Fi signal will radiate throughout the environment. What should you do in this case?

- A. Leave it as it is because it will not have a significant impact
- B. Advise the stakeholder that requirements will not be met and a new design process will be needed to meet the requirements
- C. Turn up the power on the APs to accommodate for the difference
- D. Blame the cabling company if the Wi-Fi doesn't work since they did not do their job correctly

**Answer:** B ([LEAVE A REPLY](#))

**NEW QUESTION: 44**

An engineering firm just upgraded their WLAN from nine 802.11n APs to nine 802.11ac APs. After this upgrade, they did not see any improvement in throughput.

What is the most likely cause of this result?

- A. The clients were not upgraded
- B. APs are mounted on the wall
- C. The APs are still using the 5 GHz lower band
- D. APs are transmitting at a low transmit power

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 45**

As a device starts to shift to lower PHY rates, what factors usually influence a device decision to shift to lower PHY rates?(Choose all that apply.) Response:

- A. Interference
- B. Signal degradation
- C. Packet loss
- D. Retransmissions

**Answer: A,B,C,D (LEAVE A REPLY)**

**NEW QUESTION: 46**

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Response:

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**Answer: A (LEAVE A REPLY)**

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**NEW QUESTION: 47**

During a post-validation assessment, you have configured a client for 802.1X/EAP but it is not passing authentication. Which areas should you check in the WLAN configuration?

Response:

- A. Whether the RADIUS server is online and configured for the matching port on the APs and WLAN controllers
- B. Whether the authenticator is configured to support the EAP type(s) your client is configured for
- C. Whether the client has a fully valid certificate
- D. Whether the RADIUS shared secret is properly configured on the supplicant and authentication server

**Answer: A ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 48**

What is an advantage of centralized data forwarding?

- A. It increases the encryption strength for user traffic
- B. It increases the signal strength for wireless client devices
- C. It allows for centralized filtering of wireless traffic
- D. It reduces delay for user traffic

**Answer: C ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 49**

Location technology (RTLS) can use which of the following methods?(Choose all that apply.) Response:

- A. UWB
- B. UHV
- C. Sound
- D. Infrared
- E. 802.11-capable laptops
- F. Active RFID
- G. Passive RFID

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 50**

What are some significant drawbacks that are present with WPA/WPA2-Enterprise that are not present with WPA/WPA2-Personal?(Choose all that apply.) Response:

- A. WPA/WPA2-Enterprise always requires X.509 certificates for server authentication.
- B. WPA/WPA2-Enterprise does not support the use of usernames/passwords for client authentication.
- C. WPA/WPA2-Enterprise does not provide a way to perform per-user authorization and access control.

D. WPA/WPA2-Enterprise often requires more administrative overhead for configuration than WPA/WPA2-Personal.

E. WPA/WPA2-Enterprise often requires additional backend infrastructure components that are not required with WPA/WPA2-Personal.

**Answer: D,E (LEAVE A REPLY)**

### NEW QUESTION: 51

Given: You are evaluating the theoretical and real-world RF gain benefits of transmit and receive features introduced by 802.11 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)?

Response:

A. 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

B. 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

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 = 1 dBi gain  
3 Rx or Tx chains = 2 dBi gain  
4 Rx or Tx chains = 3 dBi gain

**Answer: B (LEAVE A REPLY)**

### NEW QUESTION: 52

An MSA commonly addresses at least which two legal categories?

A. Indemnity clause

B. Nondisclosure agreement

C. Hold harmless

D. Intellectual property protection

**Answer: (SHOW ANSWER)**

### NEW QUESTION: 53

Given: A WLAN controller is connected to ABC Company's core layer 3 Ethernet switch with an IEEE 802.1 Q trunk connection. The WLAN controller's native VLAN is VLAN 6 and its IP address is 10.0.14.2 /24. Lightweight APs supporting centralized forwarding are connected to the network on VLANs 7,

8, and 9, and they each build a Layer 3 tunnel back to the WLAN controller's IP address.

The dynamically assigned IP addresses received by each AP from a DHCP server will be \_\_\_\_\_.

A. Associated with the VLAN on which they are connected.

- B.** Associated with a non-routable VLAN until the MAC address of the AP is removed from the controller's MAC filter
- C.** Associated with VLAN 1, the default VLAN for new APs
- D.** Associated with the native VLAN of the WLAN controller.

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 54**

NicoCo is building a new facility and would like to install a WLAN for primary connectivity of all clients.

The requirements are dual-spectrum 802.11n supporting voice and location tracking.

What type of pre-deployment survey should be performed?

Response:

- A.** Passive, all channels
- B.** Active, using a lowest common denominator client
- C.** Active, using a voice handset
- D.** Predictive
- E.** Passive, using optimized channels

**Answer:** **D** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 55**

After designing a WLAN infrastructure using predictive design software. What's the best way to validate the predictive design in the physical space before deployment, if time and budget allow for it?

- A.** Perform an AP-on-a-Stick survey using AP locations based upon the predictive design to confirm each AP's placement.
- B.** Deploy all of the APs as they're shown in the predictive design and perform a passive site survey.
- C.** Deploy all of the APs as they're shown in the predictive design and perform an active site survey.
- D.** Use a client device positioned where the APs will be installed and measure the signal from the client device.

**Answer:** **A** ([LEAVE A REPLY](#))

An AP-on-a-Stick survey is a method of validating a predictive design by placing an AP at each proposed location and measuring the signal coverage and performance. This allows the designer to verify the accuracy of the predictive design and make any adjustments if needed. An AP-on-a-Stick survey is more cost-effective and time-efficient than deploying all the APs and performing a passive or active site survey, which would require installing the APs, cabling, power, and network infrastructure. Using a client device to measure the signal from the AP locations is not a reliable way of validating the design, as it does not account for the interference, noise, and multipath effects that may affect the actual AP

performance. References: 1: CWDP Certified Wireless Design Professional Official Study Guide: Exam PW0-304, Chapter 5, page 163.

**NEW QUESTION: 56**

What advantage provided by 802.11n and 802.11ac is not usable in 1X1:1 low-end client devices?

- A. MCS data rates
- B. Channel bonding
- C. Mandatory data rates
- D. Maximal Ratio Combining

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 57**

What is the primary reason for avoiding 160 MHz channels with 802.11 in the 5 GHz band'?

- A. The data rate becomes too high which causes some clients to gain access to the medium and never let it go
- B. The output power required for 160 MHz channels is more than most regulatory domains allow
- C. No APs exist in production that can implement 160 MHz channels
- D. Only two of three 160 MHz channels exist in the current frequency allocation, in some regulatory domains only one exists

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 58**

What are the two most common industry-standard protocols used to transport data from an AP to a Wireless LAN Controller?

- A. SSL and SSH
- B. LWAPP and FTP
- C. CAPWAP and GRE
- D. TLS and SSL

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 59**

The installation crew for your WLAN project wants to install a few APs to locations nearby the ones specified in the RF design document. What next step should occur?

Response:

- A. Confirm the mounting hardware.
- B. Choose a different AP model.
- C. Update the documentation.
- D. Consult the RF designer.

**Answer: D ([LEAVE A REPLY](#))**

**NEW QUESTION: 60**

When troubleshooting coverage issues for a wireless network as it appears to new client associations, you should perform which type of survey?

Response:

- A. Passive survey
- B. Active survey
- C. A survey is not necessary.
- D. Predictive survey

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 61**

During your first pre-deployment meeting with the deployment team, you hand out the full design documentation to all of them. What's your primary goal during this meeting?

- A. To explain design decisions and ensure understanding of design documents.
- B. To explain how Wi-Fi works.
- C. To discuss AP functionality.
- D. To justify the budget.

**Answer: A ([LEAVE A REPLY](#))**

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**NEW QUESTION: 62**

What might limit the ability to locate 802.11 clients using a WLAN infrastructure without an 802.11 tag?(Choose all that apply.)

- A. When it is off
- B. Lack of 802.11k support
- C. When its radio is disabled
- D. RF channel selection

**Answer: A,C ([LEAVE A REPLY](#))**

**NEW QUESTION: 63**

During lunch time in the break room of a company, Wi-Fi connectivity on the 2.4 GHz band is intermittent.

Every other time of the day, it works fine.

What's the likely cause of this issue?

- A. Employees are using their cell data instead of using the Wi-Fi
- B. Toasters and ovens are heating up the air, raising the noise floor with the Wi-Fi on the 2.4 GHz band
- C. Microwaves in the cafeteria are interfering with the Wi-Fi on the 2.4 GHz band
- D. The AP in the cafeteria keeps rebooting due to lack of PoE budget on the switch

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 64**

What is the purpose of defining wall materials in WLAN design software?

- A. So that the floor plan looks as much like the target deployment space as possible
- B. It adds color to the floor plan which makes it easier to identify requirement areas
- C. To ensure the attenuation and reflection of the materials are considered during propagation modeling
- D. Manager require it, so WLAN designers should do it.

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 65**

How much more power can a 1 Mbps 802.11b signal have than a 54 Mbps 802.11g signal if it is sent through a saturated amplifier?

Response:

- A. 5 dB
- B. 5 dBm
- C. 2 dB
- D. 2 dBm

**Answer:** A ([LEAVE A REPLY](#))

#### **NEW QUESTION: 66**

A controller-based WLAN infrastructure has its controller on a different subnet than its APs. What device must be used to enable any communication between the Controller and the APs?

- A. NTP server
- B. PoE Layer 2 switch
- C. Router
- D. Wireless bridge

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 67**

Switches and APs have already been chosen by your customer. All switches support 802.3bz MultiGig interfaces and APs are 4x4:4 802.11ac wave 2 capable of using dual-5GHz and have one MultiGig interface. Some cable drops for the APs will run for more than 180.5 feet (or 55 meters). To support MultiGig, what is the best choice of cabling?

- A. Cat-6a
- B. Cat-5e
- C. Cat-5
- D. Cat-6

**Answer: A ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 68**

What is the most cost-effective way to accurately measure the height of a ceiling when ladder use is not allowed?

Response:

- A. Use a laser measure to measure the distance from the floor to the ceiling
- B. Gather measurements from other objects and do the math
- C. Estimate the height based on known object sizes
- D. Rent a lift-cart to lift you up to the ceiling

**Answer: A ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 69**

What inexpensive tool is capable of locating neighbor WLANs if that is your only need?

- A. Site Survey software
- B. WLAN scanner
- C. Spectrum Analyzer software
- D. Wireless-Specific Protocol Analysis software

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 70**

When performing an indoor predictive site survey to make the WLAN planning and design cycle more efficient, what is a best practice for configuration of the simulated APs in the predictive modeling software?

- A. If dynamic RRM will be used, AP transmit power should be set to an estimated average level of the expected client devices, such as 25 mW.
- B. All simulated APs should be set to 20 MHz channels only.
- C. Always use the default 2.2 dBi omnidirectional antenna patterns for simulated APs.
- D. Defining custom AP and antenna patterns will yield more accurate prediction data than the pre-configured vendor AP/antenna combinations.

**Answer: A ([LEAVE A REPLY](#))**

### NEW QUESTION: 71

When creating a long-distance bridge link, it is important to know the channels in use by other networks on both ends of the link and within a reasonable range. It is not as important to know the channels in use in the middle area of the link. Why is this the case?

- A. The signals in the middle of the link will increase the amplitude of your signal as it passes through them
- B. Interference happens at the receiver
- C. Interference happens at the transmitter
- D. Your RF LoS will always be far above any interference in the middle because the signal travels up and then back down to the remote 802.11 receiver

**Answer: D (LEAVE A REPLY)**

### NEW QUESTION: 72

In a convention center, you have received complaints about the WLAN infrastructure. At this moment, there are only two APs in one auditorium. After analyzing the situation, you determined that there are more client devices than the infrastructure was designed for. There are only two APs to support more than 300 devices using the Wi-Fi at the same time. What should you do to make the Wi-Fi work as expected?

- A. Redesign the entire WLAN
- B. Turn up the output power on the APs so that they can handle more clients
- C. Quickly add more APs
- D. Upgrade the Ethernet connections to MultiGig

**Answer: A (LEAVE A REPLY)**

### NEW QUESTION: 73

What is the most suitable antenna option to be used when designing a WLAN infrastructure with APs mounted on a ceiling with a height of more than 20 feet and having all of the client stations used from the floor?

Response:

- A. Patch
- B. Dish
- C. Low-gain dipole
- D. Grid

**Answer: A (LEAVE A REPLY)**

### NEW QUESTION: 74

An associated STA detects a new BSS with the same SSID as the STA's current BSS. The new BSS uses a different IP subnet than the current BSS.

If the STA is configured to use 802.1X/EAP preauthentication, what is likely to occur?

- A. The STA will attempt to preauthenticate and succeed if IP Mobility is enabled on the AP or WLAN controller.

- B. The STA will not attempt to preauthenticate because the new BSS uses a different IP subnet.
- C. The STA will attempt to preauthenticate and succeed if DHCP is supported on the new subnet.
- D. The STA will attempt to preauthenticate, but fail because the new BSS uses a different data-link broadcast domain.

**Answer: D (LEAVE A REPLY)**

#### **NEW QUESTION: 75**

What is the purpose of DHCP Option 43, and how is it used with WLANs?

- A. It integrates a DHCP server with AAA servers and user databases to dynamically assign IP addresses to client devices. During 802.1X, the AAA server uses
- B. It provides IP address bindings for specific network nodes that require long-term IP address assignments. WLAN controllers are configured to use Option 43 to receive long-term IP address leases that are centrally managed with DHCP.
- C. It provides clients with a temporary IP address on a restricted VLAN until 802.1X authentication is completed. Then the client receives its long-term IP address.
- D. It supports vendor-specific IP address attributes for node discovery purposes. APs use Option 43 with vendor class identifiers to obtain the IP address of a centralized WLAN controller.

**Answer: D (LEAVE A REPLY)**

#### **NEW QUESTION: 76**

What frequency and power did 802.11y provide?

Response:

- A. 5.25-5.35 GHz, 10W EIRP
- B. 3.65-3.7 GHz, 20W EIRP
- C. 3.7-3.75 GHz, 15W EIRP
- D. 5.65-5.7 GHz, 5W EIRP

**Answer: B (LEAVE A REPLY)**

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**NEW QUESTION: 77**

What part of the 802.11n preamble is used by the receiver to estimate the spatially multiplexed signal channel?

What mode is this used in?

Response:

- A. HT-LTF in Mixed and Greenfield modes
- B. HT-STF in Greenfield mode only
- C. HT-LTF in Greenfield mode only
- D. HT-STF in Mixed and Greenfield modes

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 78**

If radar has reportedly been detected on your WLAN deployment, what bands would you consider avoiding?

Response:

- A. 5 GHz UNII-2 and 3
- B. 5 GHz UNII-1, 2, and 3
- C. 5 GHz UNII-2, 2e, and 3
- D. 5 GHz UNII-1 and 2
- E. 5 GHz UNII-2 and 2e

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 79**

You are tasked with designing the WLAN to accommodate certain high density areas on your university campus where users frequently come and go. With a limited DHCP pool size (subnet mask = 255.255.252.0) for this WLAN subnet, you want to ensure that your DHCP addresses are used efficiently and are not exhausted, which would prevent new client Layer 3 connections. The DHCP server is a Windows Server 2012 R2 machine. Your design task is to determine the best configuration to allow as many users as possible while avoiding WLAN service interruptions and also to use the available addresses as efficiently as possible.

What setting would be most effective at achieving this design task?

- A. Set the RTS threshold to 2346 bytes
- B. Set the inactive wireless client timeout (client age-out) to 5 minutes
- C. Set the maximum client limit per radio to 64
- D. Set the DHCP lease for this pool to 20 minutes

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 80**

If the amplifier in Question 4 has a noise figure of 10 dB but a gain of 0 dB, what is the total noise figure of the cable, amplifier, and filter in series?

Response:

- A. 16 dB
- B. 75 dB
- C. 10 dB
- D. 70 dB

**Answer: B (LEAVE A REPLY)**

#### **NEW QUESTION: 81**

You are evaluating CO impact in 2.4 GHz. During the post-validation survey, you determine that 2 or 3 APs are seen from every location in the 2.4 GHz band with signal strengths above -75 dBm from all seen APs.

Does this show that CO has been removed from the environment given that three non-overlapping channels exist in 2.4 GHz and why?

- A. Yes, because the goal is to see only 1 AP at each location in 2.4 GHz
- B. Yes because you would see 3 APs in every location with a signal strength above -75 dBm if CO exists
- C. No, because the goal is to see only 1 AP at each location in 2.4 GHz
- D. No, because CCI can exist even with signals as low as -85 dBm to -93 dBm

**Answer: D (LEAVE A REPLY)**

#### **NEW QUESTION: 82**

Which document provided to your customer should include all devices and parts that are going to be used during the deployment of their WLAN infrastructure?

- A. Design report
- B. BoM
- C. SoW
- D. Project plan

**Answer: B (LEAVE A REPLY)**

#### **NEW QUESTION: 83**

For what purpose is SSID hiding generally useful?(Choose all that apply.) Response:

- A. Obscuring the network name from potential attackers
- B. Preventing legitimate corporate users from finding the guest network
- C. Preventing guests from attempting to join the secured corporate network
- D. Minimizing help desk calls from users and guests attempting to join the wrong network

**Answer: (SHOW ANSWER)**

#### **NEW QUESTION: 84**

A museum wants to offer Wi-Fi to its visitors. One of their requirements is to have the APs blend into the design of the museum. What should you do to meet this requirement?

- A. Use a plastic cover that could blend in with the environment

- B. Lock the AP inside of a metal box
- C. Place the APs in between walls and I-beams
- D. Use an 802.11b AP, so it looks old enough to be in a museum

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 85**

You have determined the best mounting locations for APs in a given installation. The facilities manager has asked you to change the locations for several APs due to aesthetic concerns. You suggest mounting the APs in the ideal locations and painting them so they go unnoticed in the environment.

What is a valid recommendation or consideration when painting APs?

- A. Painting APs will significantly reduce the output power.
- B. Most AP models for indoor environments come in a variety of form factors and colors. Painting is never recommended.
- C. Always use paints with metallic dye in them to prevent potential RF propagation impact.
- D. Painting APs may void the product manufacturer's warranty.

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 86**

What basic RF math formula should be used as a baseline to convert an RF value in units of dBm into a value of mW?

\*Note: "dBm" in the formulas represents the known dBm value

- A.  $0 \text{ dBm} = 1 \text{ mW}$
- B.  $\text{mW} \text{ mW}$
- C.  $\text{mW} \text{ C}$ .

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 87**

What is the minimum PoE budget needed on a switch to support 6 (six) APs that can only be powered using IEEE 802.3at if no other details are provided?

Response:

- A. 240 W
- B. 320 W
- C. 180 W
- D. 60 W

**Answer:** C ([LEAVE A REPLY](#))

#### **NEW QUESTION: 88**

You're preparing to perform a site survey for a company that processes meat. Some areas are restricted due to high-security. What do you have to do in order to proceed with the site survey?

- A. Gain meat processing access certification from the FDA.
- B. Just begin the survey, they will understand
- C. Ensure that you and your team are using food industry approved USB adapters for the survey.
- D. Gain appropriate access and clearance to perform the site survey.

**Answer: D ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 89**

For what types of systems should you request read-only access to in order to perform an analysis of the customer's existing infrastructure?(Choose all that apply.) Response:

- A. Clients
- B. Routers
- C. Routers Directory
- D. Active Directory
- E. Switches
- F. RADIUS

**Answer: B,E ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 90**

Which type of building material causes the most attenuation of Wi-Fi signals'?

- A. Brick wall
- B. Plywood
- C. Fire-rated steel door
- D. Drywall

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 91**

What VoWiFi implementations frequently require multicast packet delivery support by the WLAN infrastructure?

- A. All VoWiFi hard phones
- B. Push-to-Talk VoWiFi phones
- C. All VoWiFi implementations
- D. All VoWiFi soft phones

**Answer: B ([LEAVE A REPLY](#))**

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**NEW QUESTION: 92**

What kind of antenna results in a nearly circular pattern on the azimuth chart but a very flat donut shape on the elevation chart?

- A. 20 degree vertical yagi
- B. 60 degree horizontal patch
- C. 120 degree horizontal sector
- D. High gain omni-directional

**Answer: A (LEAVE A REPLY)**

**NEW QUESTION: 93**

If you choose to recommend dynamic channel assignment for the APs in your WLAN design what action should you also recommend'?

- A. Ensure that the output power of an APs is set to the minimum available in the system interface
- B. Ensure that the output power of all APs is set to the maximum allowed in the regulatory domain
- C. Configure the settings used by the dynamic channel assignment algorithm optimally for your design
- D. Replace all antennas with panel antennas instead of omnidirectional antennas

**Answer: C (LEAVE A REPLY)**

**NEW QUESTION: 94**

You desire to achieve a 450 Mbps MCS. What 802.11n features (from the numbered list below) are required?

1. Frame aggregation
2. Short GI
3. 40 MHz channels
4. 2 spatial streams
5. 3 spatial streams
6. Transmit beamforming (TxBF)

A. 1, 2, 3, 5

B. 2, 3, 2

C. 2, 3, 5

D. 1, 2, 3, 4, 6

**Answer: (SHOW ANSWER)**

**NEW QUESTION: 95**

What should you do during the design process of a point to point bridge link to minimize CCI and ACI?

- A. Install the antennas and choose the least busy channel using trial and error problem solving
- B. Choose a channel on the 2.4 GHz band other than the over used 1, 6 and 11
- C. Perform an outdoor site survey in the area of both buildings and determine the best channel to use
- D. Choose a channel on the 5 GHz band outside of the UNII-1 and UNII-3 channels

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 96**

What functions may be performed by a WIPS?(Choose all that apply.)

Response:

- A. Performance monitoring and response
- B. Distributed protocol analysis
- C. Client access to the distribution system
- D. Data forensics and analysis
- E. Automated threat mitigation

**Answer:** A,B,D,E ([LEAVE A REPLY](#))

**NEW QUESTION: 97**

How are EAP messages transported over 802.11 wireless LANs?

Response:

- A. EAP\_TLS
- B. EAP-Fast
- C. EAPOL
- D. PEAP

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 98**

A high power radio system transmits at 40,000 Watts. What is this power in dBm? Solve this without a calculator.

Response:

- A. 76 dBm
- B. 66 dBm
- C. 46 dBm
- D. 56 dBm

**Answer:** A ([LEAVE A REPLY](#))

**NEW QUESTION: 99**

Given: For this fill-in the blank question, each answer option contains an answer for the first and second blanks, separated by a dash "-". Choose the answer option that correctly fills in both blanks in the following sentence.

A WLAN may use 802.11 admission control to \_\_\_\_\_, and admission control requirements are configured separately for each \_\_\_\_\_.

- A. Regulate the available bandwidth resources - Access Category
- B. Block stations with inadequate security parameters - SSID
- C. Identify voice-enabled wireless devices - AP radio (that is, 2.4 GHz or 5 GHz)
- D. Mark ingress and egress frames with priority values - TCP/IP port

**Answer: A (LEAVE A REPLY)**

#### **NEW QUESTION: 100**

In this question, you will compare the mobility processes of a network that supports WPA2-Personal and WPA2-Enterprise. Assume the use of a 15-character

ASCII passphrase for WPA2-Personal and EAP-TTLS/MSCHAPv2 with WPA2-Enterprise. Also, assume that proprietary roaming protocols are not supported.

When a device transitions from one BSS to another within the same ESS, what step must be performed in the WPA2-Enterprise transition that are not performed in the WPA2-Personal transition?

- A. 4-Way Handshake
- B. 802.1X authentication
- C. Open System Authentication
- D. 802.11 Reassociation

**Answer: B (LEAVE A REPLY)**

#### **NEW QUESTION: 101**

What is the DSCP Per Hop Behavior equivalent classification of the 802.11 AC\_VO priority level?

- A. EF
- B. AF31
- C. VO
- D. CS3

**Answer: A (LEAVE A REPLY)**

#### **NEW QUESTION: 102**

When using a predictive design tool, you have selected APs with an antenna gain 3 dBi and set the transmit power of the predicted APs to 25 mW.

What should be EIRP of the APs in the design?

- A. 17 dBm
- B. 6.25 mW

C. 125 mW

D. 11 dBm

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 103**

When surveying an existing WLAN infrastructure for a possible redesign, you use two Wi-Fi USB adapters to collect RSSI data and two USB spectrum analysis adapters to collect RF spectrum data. Since your laptop doesn't have enough USB ports, you use a 4-port powered USB 3.0 hub.

What issues could be caused by the use of USB 3.0 that will impact your site survey?

A. It generates noise in the 2.4 GHz band, giving you a false perception of the noise floor.

B. It does not give you enough power for all four of your adapters.

C. It generates noise in the 5 GHz band, giving you a false perception of the noise floor.

D. It does not give you enough bandwidth to collect data coming from all of the adapters.

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 104**

Aesthetics are very important in some environments. What common installation technique can be used to best meet this requirement in a stadium?

A. Using enclosures under the seats or on hand-rails

B. Mounting on the walls

C. Mounting on a non-fixed pole

D. Painting to match team colors

**Answer:** ([SHOW ANSWER](#))

#### **NEW QUESTION: 105**

Before performing a pre-deployment passive RF survey of a new deployment using survey mapping software, which of the following must be performed?

A. Determining AP transmit power

B. Scaling the map

C. Checking client DTCP settings

D. Selecting antennas

**Answer:** B ([LEAVE A REPLY](#))

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