

300-360 Dumps

Designing Cisco Wireless Enterprise Networks

<https://www.certleader.com/300-360-dumps.html>



NEW QUESTION 1

An engineer is assigned to assist a customer by estimating the number of access points needed to provide voice-grade wireless coverage in a carpeted office space. How many access points should be estimated to cover this space of roughly 38,000 square feet?

- A. 17
- B. 10
- C. 6
- D. 13

Answer: D

Explanation: The rule of thumb coverage plan is 1 AP per 5,000 square feet for data and 1 per 3,000 square feet for voice and location services.

NEW QUESTION 2

When calculating bandwidth usage for an application, what two values represent the minimum and maximum 802.11 overhead per frame? (Choose two.)

- A. 16 bytes
- B. 24 bytes
- C. 28 bytes
- D. 48 bytes
- E. 56 bytes
- F. 60 bytes
- G. 64 bytes

Answer: CF

NEW QUESTION 3

Which three components and tasks should be considered while planning the site survey? (Choose three.)

- A. Determine the project scope, type of deployment, timeline, scale, budget, and users
- B. Determine project stakeholders
- C. Determine customer training requirements
- D. Determine AP and controller placement
- E. Determine the customer applications that the network will support
- F. Determine radio spectrum and channel allocation
- G. Schedule customer end user interviews

Answer: ABE

NEW QUESTION 4

A wireless engineer is doing a pre-site survey. Which two attributes must match between the site survey and the production clients? (Choose two.)

- A. AP type
- B. radio frequency
- C. mobility patterns
- D. user
- E. exact location

Answer: CD

NEW QUESTION 5

You are designing a network deployment for a state college. The college has six buildings. Each building has a WLC located in the IDF to support access points. Which type of wireless architecture does the deployment represent?

- A. centralized
- B. distributed
- C. cloud
- D. autonomous

Answer: A

NEW QUESTION 6

Which option is the minimum RSSI signal for a data WLAN?

- A. -65 dBm
- B. -67 dBm
- C. -72 dBm
- D. -80 dBm

Answer: D

NEW QUESTION 7

Which three reasons describe the importance of assessing existing wired infrastructure when designing a new wireless network? (choose three)

- A. determine quality of service
- B. Determine UPS requirement
- C. Determine CAPWAP support
- D. Determine POE requirement
- E. Determine port bandwidth
- F. Determine cable length

Answer: AEF

NEW QUESTION 8

After enabling global multicast, multicast traffic has been flooding the wired and wireless network. The wireless engineer has been troubleshooting and is attempting to find the source of the traffic. What command will display the multicast traffic source as well as the incoming interface?

- A. show ip mroute
- B. show ip igmp groups
- C. show ip pim neighbor
- D. show ip device tracking all

Answer: A

NEW QUESTION 9

Which two critical requirements must be addressed in the RF site survey for wireless video surveillance? (Choose two.)

- A. packet loss
- B. jitter
- C. bandwidth
- D. channel selection
- E. WLC configuration

Answer: AB

NEW QUESTION 10

A university is in the process of deploying a wireless network in an auditorium that seats 500 students and supports student laptops. Which deployment methodology should the university implement in the auditorium?

- A. Roaming design model
- B. Location design model
- C. High-density design model
- D. Voice design model

Answer: D

NEW QUESTION 10

What is a common cause for signal attenuation?

- A. Cinder block wall
- B. Office window
- C. Metal door
- D. Glass wall

Answer: C

NEW QUESTION 14

An engineer is tasked with designing a WLAN. The customer is prioritizing data speeds to the desktop, but is also entertaining the idea of adding 802.11 phones in the future. Given this information, how should the engineer conduct the survey?

- A. consider the employee head count in congested office space and limit the edge of each cell to an RSSI of -67mW
- B. restrict AP cell edges to -67dB and be sure to strategically place APs in congested office spaces
- C. co-locate access points when possible to cover high user areas and place APs at each corner of the facility
- D. stagger the AP placements, and be sure to have a high signal to noise ratio that will accommodate the future VoIP devices

Answer: B

NEW QUESTION 19

An engineer is determining the signal levels for the wireless cells. Which signal-to-noise ratio is an optimal configuration to achieve?

- A. minimum SNR of -33 dBm
- B. minimum SNR of -25 dBm
- C. minimum SNR of 25 dB
- D. minimum SNR of 33 dB

Answer: C

Explanation: The minimum recommended wireless signal strength for voice applications is -67 dBm and the minimum SNR is 25 dB.

NEW QUESTION 21

When a post-installation audit is performed using the Ekahau Survey tool, which two steps are associated with the passive portion of the audit? (Choose two.)

- A. Check to see if the signal levels on other access points that are heard on the same channel are at least 19 dBm weaker than the access point that you are next to
- B. Survey by SSID to ensure that smooth roaming is taking place
- C. Verify that the real-world network traffic (for example, physical data rate, packet loss, etc.) meets user requirements
- D. When you have completed the post-installation surveys, compare them to the surveys that were performed before the installation
- E. They should look nearly identical
- F. Verify that user applications are running smoothly over the wireless network

Answer: AD

NEW QUESTION 23

An engineer is preparing for an indoor wireless LAN survey and is provisioning a survey kit. Which three pieces of equipment should be included? (Choose three.)

- A. external connector access point
- B. integrated antenna access point
- C. coax low-loss cable
- D. battery operated power supply
- E. range finder
- F. Yagi antennas

Answer: BDE

NEW QUESTION 25

Refer to the exhibit.

The screenshot shows a Cisco WLAN configuration page. Key sections include:

- Avoid Foreign AP Interference:** Includes checkboxes for 'Avoid Foreign AP interference' (checked), 'Avoid Cisco AP load' (unchecked), 'Avoid non-802.11a noise' (checked), and 'Avoid Persistent Non-WiFi Interference' (checked). It also shows 'Channel Assignment Leader' as REMOTE (10.10.200.254) and 'Last Auto Channel Assignment' as 684 secs ago.
- DCA Channel List:** Shows a list of DCA Channels: 52, 56, 60, 64, 149, 153, 157, 161, 165.
- Tx Power Level Assignment Algorithm:** Includes 'Power Level Assignment Method' (Automatic, Every 600 secs), 'Maximum Power Level Assignment' (30 dBm), 'Minimum Power Level Assignment' (20 dBm), 'Power Assignment Leader' (REMOTE (10.10.200.254)), 'Last Power Level Assignment' (50 secs ago), 'Power Threshold' (-70 dBm), and 'Power Neighbor Count' (3).
- 802.11a Global Parameters:** Includes 'General' settings like '802.11a Network Status' (checked), 'Beacon Period' (100), 'Fragmentation Threshold' (2346), 'DTPC Support' (checked), 'Maximum Allowed Clients' (200), 'RSSI Low Check' (checked), and 'RSSI Threshold' (-80 dBm). It also includes 'Data Rates' (6 Mbps to 54 Mbps, all supported) and '802.11a Band Status' (Low, Mid, and High bands all enabled).

An engineer has determined that Cisco 7925 phones are roaming between 2.4 GHz and 5 GHz radios on the same access points, which results in poor audio performance. Which action must the engineer take to mitigate this issue?

- A. Enable TPCv2 to normalize the RF environment.
- B. Configure EDCA parameters for Voice Optimized.
- C. Configure the Cisco 7925 phone to only use 5 GHz.
- D. Enable Band Select on the WLAN

Answer: B

NEW QUESTION 26

Drag from the left the acceptable minimum cell overlap for data and voice cells for site survey and deployment

7MHz		Voice
12MHz		
17MHz		Data
22MHz		
30MHz		

Answer:

Explanation:

17MHZ Voice 30MHZ DATA

NEW QUESTION 31

You must optimize the 2.4GHz radio usage during the frequency planning of a high-density environment. Which step do you take to ensure that all of the clients can access the APs?

- A. Reduce the number of users per cell by adding additional APs
- B. Physically limit the propagation of wireless signals by using antennas and by the placement of the APs
- C. Limit the propagation of wireless signals by using a four-channel plan on neighboring APs where available
- D. Limit overlapping signals by using three non-overlapping channels

Answer: D

NEW QUESTION 35

While preparing to perform a wireless site survey on a site with ID26496007 , an engineer acquires an autonomous access point of the model specified by the client for the future deployment. A requirement of the survey is to support a target device that has a hardware defined Tx power of 7Mw in 5GHz. Witch two commands should be configured on the survey AP?

- A. Guest-mode
- B. Local power 5
- C. Radius-server key string
- D. Local power 14
- E. Station-role root access-point

Answer: BE

NEW QUESTION 37

ACisco 7925 phone at a client's location is not registering with CUCM. The engineer analyzes a packet capture, sees that the phone receives an IP, and downloads the proper configuration file from TFTP successfully. What type of messages should the phone be sending at this point?

- A. H.245
- B. H.323
- C. MCGP
- D. SCCP

Answer: D

NEW QUESTION 41

You are designing a wireless network to support voice and video applications. The customer is requesting to use the 2.4 Ghz band only because they primarily use 802.11b legacy devices. Which two must be considered? (Choose two.)

- A. Disable the data rates below 11 Mbps and set the rest as supported.
- B. Set the mandatory data rate to 11 Mbps.
- C. Set the mandatory data rate to 12 Mbps.
- D. Disable the data rates below 12 Mbps and set the rest as supported.
- E. Set the mandatory data rate to 5.5 Mbps.

Answer: BE

NEW QUESTION 44

An engineer is deploying outdoor Cisco Aironet 1500 Series Access Points and wants to protect the network from overvoltage transients. Which two protection methods must be used? (Choose two)

- A. lightning arrestor
- B. grounding lug
- C. antenna diversity
- D. temperature control

E. PoE output

Answer: AB

Explanation: https://www.cisco.com/c/en/us/td/docs/wireless/access_point/1550/installation/guide/1550hig/1550_ch2.html

NEW QUESTION 48

When a post-installation audit is performed with an auditing tool such as Ekahau, which three steps are associated with the passive portion of the audit? (Choose three.)

- A. Check that you have adequate signal levels as surveyed
- B. Make sure you emulate your customer client
- C. Check for co-channel interference
- D. Verify that the network traffic of physical data rate and packet loss meets user requirements
- E. Survey by SSID to ensure roaming is taking place
- F. Verify AP announced data rate coverage

Answer: ACF

NEW QUESTION 51

When reviewing a design for a voice over wireless deployment, what per-call bandwidth cost should be factored in when determining maximum calls per cell using SIP and G.711u as the codec?

- A. 64 bytes
- B. 8 bytes
- C. 80 bytes
- D. 10 bytes

Answer: C

NEW QUESTION 52

Drag and drop the services on the left to the corresponding AP density levels on the right.

Location Services	Low Density
Data Services	Medium Density
Voice Services	High Density

Answer:

Explanation:

Location Services	Voice Services
Data Services	Data Services
Voice Services	Location Services

NEW QUESTION 56

An engineer must perform a survey where the target client devices range from standard Wi-Fi-equipped laptops, consumer handhelds and tablets, and low power tracking tags limited to 12 mW Tx power. With which setting should the survey AP be configured?

- A. local power 11
- B. local power 5
- C. local power 14
- D. local power 8

Answer: B

NEW QUESTION 59

A wireless engineer is hired to design a network for six buildings with a WLC in each building to support the access points.
Which type of wireless architecture is being used?

- A. distributed deployment
- B. autonomous deployment
- C. unified deployment
- D. centralized deployment

Answer: D

NEW QUESTION 62

Drag and drop the IPv6 feature on the left to the matching feature function on the right. Not all options are used.

IPv6 ACLs	
RA Throttling	
IPv6 Bridging	
IPv6 Source Guard	
IPv6 QoS	
RA Guard	
AAA Override for IPv6 ACL	
DHCPv6 Server Guard	

Answer:

Explanation:

IPv6 ACLs	DHCPv6 Server Guard
RA Throttling	RA Throttling
IPv6 Bridging	RA Guard
IPv6 Source Guard	IPv6 QoS
IPv6 QoS	AAA Override for IPv6 ACL
RA Guard	
AAA Override for IPv6 ACL	
DHCPv6 Server Guard	

NEW QUESTION 65

A corporation has a Cisco Unified Wireless Network that has been deployed for voice coverage. The wireless data rates have been tuned to mandatory rates of 18 Mbps and 36 Mbps. Some wireless clients have been experiencing drops streaming multicast video while moving throughout the building. What is the cause of the drop in video?

- A. Clients are maintaining a 12Mbps rate and cannot receive the stream at 18Mbps.

- B. Clients are not roaming due to coverage.
- C. This is causing the multicast data to drop due to the client reassociating often.
- D. Clients are roaming at lower data rates and are not maintaining 36Mbps connectivity.
- E. Clients are connected at 18Mbps; however, other clients are connecting at 12Mbps and are causing the multicast video to degrade.

Answer: C

NEW QUESTION 66

A network engineer is configuring QoS with a DSCP value of 46. To which queue must the CoS be mapped for priority queuing of the voice frames?

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

Answer: C

NEW QUESTION 71

You have a customer that is building a new campus of four 3-story buildings that you have just completed the site survey for. The customer is interested in the amount of rack space they will need to allocate in either the building MDF or in the data center for controllers. Each building is going to require 75 APs to support voice and data. How should the controllers be deployed to provide the least number of controllers, the highest redundancy, and the easiest management?

- A. Use the centralized deployment method in the data center with the N + N redundancy method.
- B. Use the centralized deployment method in the data center with the N + 1 redundancy method.
- C. Use the centralized deployment method in the data center with the 1 + 1 redundancy method and client SSO.
- D. Use the distributed deployment method in each building MDF with the N + 1 redundancy method.
- E. Use the distributed deployment method in each building MDF with the N + N + 1 redundancy method.
- F. Use the distributed deployment method in each building MDF with the N + N redundancy method.

Answer: B

NEW QUESTION 74

Which three WLC actions are needed to properly enable queuing with TSPEC for voice traffic? (choose three)

- A. configure WLAN platinum QoS
- B. configure WLAN gold QoS
- C. configure DTIM=2
- D. configure global 802.11b/g/n/ac, or both, to voice CAC
- E. configure WLAN setting to enable WMM.
- F. Configure WLAN Aironet information elements to enabled.

Answer: ADE

NEW QUESTION 76

An engineer is configuring a new VoWLAN and wants only IEEE 802.11g/n to be supported. Which two data rates should be configured? (Choose two.)

- A. 18 Mbps and higher should be supported.
- B. Lower than 24 Mbps should be supported.
- C. Lower than 24 Mbps should be supported.
- D. 1, 2, 5.5, and 11 Mbps should be disabled.
- E. 11 Mbps should be mandatory.
- F. 6 and 9 Mbps should be supported.
- G. 12 Mbps should be mandatory.

Answer: AG

NEW QUESTION 81

Which three things do you need to consider prior to performing a wireless site survey? (Choose three.)

- A. The time required to acquire any additional infrastructure components.
- B. The time required to survey each potential AP location.
- C. The time required to assess application server locations at the customer facility.
- D. The type of wireless survey tools required to perform the site survey.
- E. The time required to assess customer WLAN density and throughput requirements.
- F. The time required to utilize the design mode in Cisco WCS to prepare a preliminary WLAN design to reduce on-site survey time.

Answer: BDE

NEW QUESTION 82

After installation of a new data-only wireless network, an engineer found that RRM has set all of the APs to a power level of 1. Which option describes the reason for this?

- A. APs are too far apart for the set data rates.
- B. EORRM is enabled.
- C. High co-channel interference exists.
- D. DTPC value is set too high.

Answer: A

NEW QUESTION 83

An engineer is performing a predictive wireless design for a Parts Distribution Center, which requires data and location services. Which three requirements are inputs to the design? (Choose three.)

- A. access points with directional antennas
- B. continuous -67 dBm coverage from one access point
- C. overlapping -75 dBm coverage from three access points
- D. overlapping -67 dBm coverage from two access points
- E. access points in IPS mode
- F. continuous -72 dBm coverage from one access point
- G. access points in corners and along perimeters

Answer: BCG

NEW QUESTION 88

Which two information points should a pre-site survey QUESTION NO:naire contain? (Choose two.)

- A. list of clients used
- B. hours during which the survey can be performed
- C. access point density required
- D. approximate square footage of facility
- E. total number of APs in use

Answer: CD

Explanation: <https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-surveyguide.html>

NEW QUESTION 90

A post-deployment active wireless site survey was just completed for a company. Which two pieces of information must be included in the site survey report? (Choose two.)

- A. client performance metrics obtained during the survey
- B. heat maps from the data that was captured floor plans for Cisco Prime Infrastructure
- C. floor plans for Cisco Prime Infrastructure
- D. existing WLC configurations
- E. RRM recommendations for the WLC

Answer: BD

NEW QUESTION 91

You perform the initial RF plan for a site with ID26496007 by using Cisco Prime Infrastructure. Which two actions improve the real-time handoff?

- A. add or move the Aps on the map
- B. adjust the resolution
- C. adjust the azimuth angles of the AP antnna.
- D. Adjust the RSSI cutoff value.
- E. Change the type.

Answer: AC

NEW QUESTION 92

A customer is deploying a Greenfield 802.11ac network on a floor that will support approximately 300 wireless devices. Which setting needs to be changed on Prime Infrastructure Planning Tool in order to predict the amount of access points the customer needs to service the new floor?

- A. Data Coverage Support Margin
- B. Demand Settings
- C. Add AP Field
- D. 802.11n Protocol Support

Answer: C

NEW QUESTION 95

Which two modifications to station behaviors were designed in the IEEE 802.11e protocol? (Choose two.)

- A. CFP
- B. HCCA
- C. EDCA
- D. PCF
- E. DCF

Answer: BC

NEW QUESTION 98

An engineer has been assigned the task of deciding the cell overlap for a wireless voice deployment. Which Cisco measurement recommendation should be considered?

- A. The edge of the cell should be -67 dBm.
- B. One AP should be deployed per 3000 square feet.
- C. The edge of the cell should be below 35 RSSI.
- D. The measurement should be done on the 2.4-GHz band.

Answer: A

NEW QUESTION 101

A wireless engineer is calibrating a floor using Cisco Prime Infrastructure. Which setting in the WLC must be disabled before the floor calibration is started?

- A. CleanAir
- B. Dynamic Channel Assignment
- C. Coverage Hole Detection
- D. Tx Power Control

Answer: B

NEW QUESTION 106

An engineer is tuning RRM parameters to improve client connectivity. Which channel band results in the best 802.11n client compatibility?

- A. UNII-2
- B. UNII-2e
- C. UNII-3
- D. UNII
- E. UNII-1

Answer: E

Explanation: 802.11 n operates on the same channel as 802.11A. For better compatibility with 802.11n clients, it is recommended to stay on lower channels (UNII-1 band).

NEW QUESTION 109

A cabling contractor is working at a customer facility. The contractor is asking what rating of cable should be installed in return-air areas. Which information can be referenced to provide the contractor the requested information?

- A. OSHA Codes
- B. BICSI TDDM
- C. NEC Ratings
- D. IEEE Standards

Answer: B

NEW QUESTION 113

An engineer is planning for a 24 Mbps data rate for a new installation. What is the coverage area from the AP if the environment and other factors are not taken into consideration?

- A. 225 feet
- B. 80 feet
- C. 150 feet
- D. 100 feet

Answer: A

Explanation: Coverage (Cell Size)

Lower data rates can be demodulated across greater distances than higher data rates. This is because of the lower complexity encoding schemes — the signal can be understood at a lower SNR. Enable lower data rates in order to increase the effective range of the AP; disable the lower data rates in order to decrease the effective range of the AP.

Figure 16: Coverage (Cell Size)

NEW QUESTION 116

Which description of Cisco Centralized Key Management is true?

- A. By caching their credentials, it helps clients save canning time when looking for a new AP to join.
- B. It enable the controller to send directed roam requests to a client in situations when the controller can better service the client on a different AP than the one to which the client is associated.
- C. It allows wireless clients to cache their credentials so that, while they are roaming, they do not need to re-authenticate to the wireless infrastructure.
- D. It allow the wireless infrastructure to cache the credentials, which eliminates the need to conduct a full re-authentication when roaming.

Answer: D

NEW QUESTION 120

Which piece of information gathered during a WLAN site survey should be included in the customer report?

- A. Analysis of server location and applications supported.
- B. Analysis of fiber-optic backbone infrastructure.
- C. Output from Cisco WCS Location Quality Inspector.
- D. Output from Cisco WCS VoWLAN Voice Readiness Tool.
- E. Output from Cisco WCS Planning Mode Tool.

Answer: E

NEW QUESTION 123

A customer reports that wireless clients are not able to receive multicast data from known working multicast servers on the wired network. The client is connecting at the highest mandatory wireless rate of 24 Mbps and the wireless controller is configured for multicast-unicast mode. What three actions should the engineer take next to troubleshoot the issue? (Choose three.)

- A. verify that the L3 interfaces are configured for pim sparse-dense-mode on the VLAN servicing the wireless access points as well as the wireless controller's management VLAN
- B. change the wireless controller from Multicast-Unicast mode to Multicast-Multicast mode and assign a multicast address in the 239.X.X.X/8 subnet
- C. verify that IGMP snooping is disabled on the wireless controller since the access points are handling IGMP messages from the clients
- D. verify that Global Multicast mode has been enabled
- E. make sure the highest mandatory rate is set to 54 Mbps so that the multicast traffic has sufficient bandwidth
- F. verify Multicast Listener Discovery (MLD) v1 snooping has been enabled to keep track of and deliver IPv4 multicast flows

Answer: ABD

NEW QUESTION 125

An engineer plugs in a Cisco Aironet 2700 Series Access Point and it is running in low power. Which three power requirements should be verified? (Choose three.)

- A. 802.3ac compliant
- B. 802.3at compliant
- C. AP requires 43 VDC to function in full power.
- D. AIR-PWRINJ3 power injector should be used.
- E. AP requires 57 VDC to function in full power.
- F. AIR-PWRINJ4 power injector should be used.

Answer: BEF

Explanation: The access point should be powered by any 802.3at compliant device.

The recommended external power supply for the access point is the Cisco AIR-PWR-B power supply. The access point can also be powered by the following optional external power sources:

- Access point power injector (AIR-PWRINJ4)
- Any 802.3af compliant power injector is supported, but in this case the access point will dynamically shift from 3x4 to 3x3.

NEW QUESTION 126

A network engineer is designing a high-density wireless network. To optimize client performance and avoid interference. Which configuration must the engineer use?

- A. Deploy APs near each other for 2.4-GHz,coverage ,and disable 5-GHz radios for some APs.
- B. Deploy APs near each other for 2.4-GHz,coverage ,and disable 5-GHz radios for all APs.
- C. Deploy APs near each other for 5-GHz,coverage ,and disable 2.4-GHz radios for some APs.
- D. Deploy APs near each other for 5-GHz,coverage ,and enable 2.4-GHz radios for all APs.

Answer: A

NEW QUESTION 128

You must perform a Layer1 survey by using Metageek Chanalyzer on the current operating mode is configured for Cisco CleanAir AP?

- A. Local
- B. SE-connect
- C. Monitor
- D. Sniffer

Answer: A

NEW QUESTION 133

You are designing a wireless network that contains many different types of wireless clients. How do you conduct a survey to ensure a consistent experience for all of the wireless clients?

- A. by using the client that has the highest RF properties
- B. by using the client that is used most by the company
- C. by using a client of every different type
- D. by using the client that is used least by the company

Answer: B

NEW QUESTION 138

An engineer has performed a post-deployment site survey and noticed that access points were installed in suboptimal locations due to physical restrictions and obstacles. Which action must the engineer take to resolve this deployment issue?

- A. Set DCAChannel Assignment Method to freeze.
- B. Set all Auto RE parameters to factory default
- C. Set TPC maximum and minimum power levels.
- D. Set static channels on all AP radios.

Answer: C

Explanation: Suspect poor coverage/not enough AP density -- If AP transmit power is already at the maximum, you can enable the lower data rates to allow clients to connect from farther away. This has a negative impact on performance, but it can help the customer understand that additional APs might be necessary.
<https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-survey-guidelineswlan-00.html>

NEW QUESTION 139

An engineer is designing the physical infrastructure for an IEEE 802.11ac network. Which power design should the engineer use?

- A. 802.3at PoE+ ports
- B. inline PoE ports
- C. 802.3af PoE ports
- D. 802.3af PoE injectors

Answer: C

NEW QUESTION 140

You are using Ekahau Site Survey to plan a WLAN. Which image format is scaled automatically during the map import process? (Choose two)

- A. JPEG
- B. PNG
- C. PDF
- D. DWG

Answer: AB

NEW QUESTION 141

While performing a Layer 1 passive wireless site survey of a location an engineer detects several instances of low power frequency hopping interference, but cannot physically locate the interfering device or devices. Why is the engineer unable to locate the offending device or devices?

- A. The sources are nearby narrow-beam radar and are sweeping through the facility.
- B. The sources are PAN and are mobile.
- C. The sources are above the ceiling file and transmit intermittently.
- D. The sources are actually high-powered devices and transmit from off the site.

Answer: B

NEW QUESTION 146

An engineer is determining powering requirements for a P2P wireless link using Cisco Aironet 1572EC access points. Which power method is valid for the access point?

- A. 802.3af Power over Ethernet
- B. Power over Cable
- C. Cisco Inline Power
- D. 802.3at Power over Ethernet

Answer: B

NEW QUESTION 149

Given an AP that can transmit at 100 mW and the client at 40 mW, which power setting should be used for a site survey?

- A. 10 mW
- B. 20 mW
- C. 40 mW
- D. 60 mW
- E. 80 mW
- F. 100 mW

Answer: B

NEW QUESTION 153

During an installation of a wireless network in a country that follows ETSI standards, the customer is requesting to manually set the channels on the 2.4GHz radios. Which channels are recommended for use in this deployment?

- A. 52, 56, 60, 64
- B. 1, 6, 11, 14

- C. 36, 40, 44, 48
D. 1, 5, 9, 13

Answer: A

NEW QUESTION 156

A customer has restricted the AP and antenna combinations for a design to be limited to one model integrated antenna AP for carpeted spaces and one model external antenna AP, with high gain antennas for industrial, maintenance, or storage areas. When moving between a carpeted area to an industrial area, the engineer forgets to change survey devices and surveys several APs. Which option is the best to reduce the negative impact of the design?

- A. Deploy the specified access points per area type.
B. Resurvey and adjust the design.
C. Increase the Tx power on incorrectly surveyed access points.
D. Deploy unsurveyed access points to the design.

Answer: B

NEW QUESTION 157

A customer has determined that aesthetics is a primary concern for their upcoming guest deployment. Which design consideration can be leveraged to address this concern?

- A. Paint the access point to cover the LED from being noticeable
B. Use enclosures to hide the wireless infrastructure in the surrounding environment
C. Deploy environmentally friendly cabling components to blend into the environment.
D. Use AIR-AP-BRACKET-1 to allow for greater mounting locations

Answer: C

NEW QUESTION 160

Which tool in the cisco prime infrastructure can you use to identify whether an existing network can support RFID tags?

- A. Site Survey
B. Planning Mode
C. Location Readiness
D. Voice Readiness

Answer: C

NEW QUESTION 164

A network installation on the site with ID 331372269 has been determined to be potentially hazardous to install. Which regulatory body must be consulted to ensure safety during the installation?

- A. FCC
B. HIPPA
C. PCI
D. OSHA

Answer: D

NEW QUESTION 168

Which list of characteristics must all controllers in a mobility group have in common based on best practices?

- A. mobility group name, version of controller code, Control and Provisioning of Wireless Access Points mode, ACLs, and WLANs (SSIDs)
B. mobility domain name, version of controller code, and Control and Provisioning of Wireless Access Points mode
C. mobility domain name, version of controller code, Control and Provisioning of Wireless Access Points mode, ACLs, and WLANs (SSIDs)
D. mobility group name, version of controller code, and Control and Provisioning of Wireless Access Points mode

Answer: A

NEW QUESTION 173

When designing and deploying an outdoor mesh network, what is the appropriate RF cell overlap?

- A. 10 percent
B. 15 percent
C. 20 percent
D. 25 percent
E. Application dependent

Answer: E

NEW QUESTION 175

Which two basic characteristics would be needed from antennas used for survey and deployment in various indoor situations? (Choose two.)

- A. Horizontally polarized
B. Vertically polarized

- C. Aesthetically fitting
- D. Least cost
- E. Highest gain
- F. Largest beamwidth

Answer: BC

NEW QUESTION 179

An engineer is surveying a customer site for additional wireless coverage. Which two menus will engineer navigate to in order to determine the maximum number of supported APs? (Choose two.)

- A. Monitor – Access Points
- B. Wireless – Access Points
- C. Management – Summary
- D. Controller – Inventory
- E. Monitor – Summary

Answer: CD

NEW QUESTION 182

The CIO of a company wants to start tracking inventory in the warehouse using RFID tags and their existing wireless network. The company hires a wireless engineer to ensure that their existing network can support this new initiative. Which tool in Cisco Prime can help the wireless engineer?

- A. Planning Mode
- B. Map Editor
- C. Site Survey
- D. Location Readiness

Answer: D

Explanation: Using Chokepoints to Enhance Tag Location Reporting Installation of chokepoints provides enhanced location information for RFID tags. When an active Cisco-compatible Extensions Version 1-compliant RFID tag enters the range of a chokepoint, it is stimulated by the chokepoint. The MAC address of this chokepoint is then included in the next beacon sent by the stimulated tag.

All access points that detect this tag beacon then forward the information to the controller and location appliance.

https://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/infrastructure/30/user/guide/pi_ug/wirelessmaps.html#9

NEW QUESTION 183

Which purpose of using Metageek Chanalyzer during site survey is true?

- A. to verify the antenna pattern of the APs
- B. to show only the usage of the 2.4 GHz spectrum
- C. to determine the sources of non-802.11 interferences
- D. to verify the different channels used during the design of Wi-Fi networks

Answer: D

Explanation: A spectrum analysis tool like Chanalyzer + Wi-Spy which shows you non-WiFi interference from devices like cordless phones, wireless video cameras, and microwave ovens. After you've detected an otherwise-invisible non-WiFi device, Chanalyzer + Wi-Spy can identify it and track it down.

<https://support.metageek.com/hc/en-us/articles/205050684-Is-Chanalyzer-a-Site-Survey-Tool->

NEW QUESTION 186

An engineer wants the controller to report when a client exceeds the minimum acceptable RSSI level, to ensure support for the minimum data rate required. Which controller option must be configured?

- A. Enable coverage hole detection
- B. Enable the coverage optional mode.
- C. Set the DCA channel sensitivity to high.
- D. Set the coverage exception level per AP to 0.

Answer: A

Explanation: If clients on a lightweight access point are detected at threshold levels (RSSI, failed client count, percentage of failed packets, and number of failed packets) lower than those specified in the RRM configuration, the access point sends a "coverage hole" alert to the controller. The alert indicates the existence of an area where clients are continually experiencing poor signal coverage, without having a viable access point to which to roam. The controller discriminates between coverage holes that can and cannot be corrected. For coverage holes that can be corrected, the controller mitigates the coverage hole by increasing the transmit power level for that specific access point. The controller does not mitigate coverage holes caused by clients that are unable to increase their transmit power or are statically set to a power level because increasing their downstream transmit power might increase interference in the

<https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-0/configuration/guide/c70/c70rrm.html>

NEW QUESTION 189

Which two steps are associated with the active portion of the audit when a post-installation audit is performed with an auditing tool such as Ekahau? (Choose two.)

- A. Check for co-channel interference by standing near an access point on one channel and watching for other access points that are on the same channel.
- B. Verify smooth roaming.

- C. Check to see if the signal level on other access points that are heard on the same channel is at least 19 dBm weaker than the access point that you are next to.
- D. Check that all channels are supported by the APs, regardless of client capabilities.
- E. Verify that the network traffic of physical data rate and packet loss meets user requirements.

Answer: BE

NEW QUESTION 192

Which option is an enhancement of enabling WMM on an AP?

- A. All access classes use the same IEEE 802.11 sequence number.
- B. It disables U-APSD Power Save.
- C. Each access class has its own IEEE 802.11 sequence number.
- D. CAC is reserved for voice calls only.

Answer: C

NEW QUESTION 195

What is the minimum RSSI signal for a data WLAN?

- A. -65 dBm
- B. -67 dBm
- C. -72 dBm
- D. -80 dBm

Answer: B

NEW QUESTION 196

Which two tool in the Cisco Prime Infrastructure can you use to identify whether a floor area can support a new VoIP system? (choose two)

- A. Location Readiness
- B. Planning Mode
- C. Voice Planner
- D. Voice Readiness
- E. Voice Audit

Answer: AD

NEW QUESTION 197

A network engineer wants the DSCP marking to align with the 802.11e access category video. What will this marking be?

- A. 34
- B. AF31
- C. 4
- D. 5

Answer: A

NEW QUESTION 200

What is the result if a client radio is incapable of supporting all the 5 GHz channels you have deployed in the controller or APs?

- A. You may only be able to deploy 20 MHz-wide channels.
- B. This may result in the client having to roam more frequently to find a channel it supports.
- C. This may result in coverage holes in the network.
- D. You may only be able to deploy 40 MHz-wide channels.

Answer: C

NEW QUESTION 205

A customer is deploying a mesh outdoor wireless network based on FCC standards where spectrum analysis shows significant radar energy propagating throughout the coverage area from a local weather station. Which channel must be excluded from the access points RRM calculation to avoid network disruption due to weather radar activity?

- A. 132
- B. 44
- C. 11
- D. 36

Answer: A

Explanation: Weather radars operate within the 5600- to 5650-MHz band, which means that channels 124 and 128 might be affected, but also channels 120 and 132 might suffer from weather radar activity.

NEW QUESTION 206

A network engineer is having wireless multicast fail when it hits the wired network. What command will show the source of multicast groups for troubleshooting?

- A. show ip igmp
- B. show ip mroute
- C. show ip mcache
- D. show ip interface counts
- E. show ip route

Answer: B

NEW QUESTION 208

You are planning the coverage for wireless VoIP by using Ekahau. Which signal strength does Ekahau recommend using for VoIP?

- A. -84 dBm
- B. -76 dBm
- C. -67 dBm
- D. -53 dBm

Answer: C

Explanation: Each vendor has their own recommended signal strength for a given data rate or application. For instance, one vendor may recommend designing their VoIP solution at -67 dBm (perhaps the most widely-used value for VoIP deployment if I had to choose one), while another may say -70 dBm. In most cases the values will differ only by a couple dB.

<https://www.ekahau.com/blog/2015/01/13/ekahau-site-survey-heatmap-visualizations-part-2-signalstrength/>

NEW QUESTION 212

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