

300-360 Dumps

Designing Cisco Wireless Enterprise Networks

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



NEW QUESTION 1

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 2

What is the optimal distance between APs for location services without considering the physical environment?

- A. 10 to 25 feet
- B. 90 to 120 feet
- C. 50 to 70 feet
- D. 80 to 100 feet

Answer: C

NEW QUESTION 3

An initial meeting has been scheduled for a proposed site survey of a customer headquarters location. Which two types of information would be valuable to collect prior to the formal kickoff meeting?

- A. Number of branch locations
- B. Plans for branch expansion
- C. Number of customers
- D. Business type
- E. Site type (urban, suburban, external environmental sensitivity, etc.)

Answer: AB

NEW QUESTION 4

An engineer is configuring an autonomous AP for RADIUS authentication. What three pieces of information must be known to configure the AP? (Choose three.)

- A. BVI IP address
- B. group name
- C. RADIUS IP address
- D. PAC encryption key
- E. username and password
- F. shared secret

Answer: BCF

NEW QUESTION 5

An engineer receives a digital image scanned from the floor plans of a facility to be surveyed for wireless survey and imported it into Air Magnet Pro. However, the document contains no scale. Which action can the engineer take to most accurately calibrate the size of the floor plan in Air Magnet?

- A. Mark the length of a hallway, then count the ceiling tiles, multiply that number by 2 and enter that value.
- B. Zoom in and mark across a hallway, then count the floor tiles across that hallway and enter that value.
- C. Zoom in and mark a doorway, then size it at 3 feet because most doorways are 36 inches.
- D. Mark the entire longest dimension of the floorplan, then use Google Earth to measure the corresponding outside dimension and enter that value.

Answer: D

NEW QUESTION 6

What is the recommended minimum speed at the edge of the cells in an 802.11g network for a good Cisco VoWLAN deployment?

- A. 11 Mb/s
- B. 36 Mb/s
- C. 12 Mb/s
- D. 18 Mb/s

Answer: C

NEW QUESTION 7

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 8

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 installatio
- E. They should look nearly identical
- F. Verify that user applications are running smoothly over the wireless network

Answer: AD

NEW QUESTION 9

After implementing mesh with an IP surveillance camera connected to the LAN port on a RAP, the engineer notices that QoS is not being marked. In this setup, what device is responsible for marking upstream traffic from the camera?

- A. IP Camera
- B. MAP
- C. RAP
- D. Wireless Controller
- E. First-Hop Router

Answer: A

NEW QUESTION 10

A wireless phone user is having roaming difficulties and is experiencing gaps in the conversation while roaming. WLC WLAN is configured as IEEE 802.1X and WPA2 and Aironet information element. What should be configured to fix the problem?

- A. IEEE 802.1X with Cisco Centralized Key Management
- B. IEEE 802.1X EAP-FAST
- C. DHCP required and DHCP proxy on WLC
- D. WPA1 and PSK

Answer: A

Explanation:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-1/Enterprise-Mobility-8-1-Design-Guide/Enterprise_Mobility_8-1_Deployment_Guide.pdf

NEW QUESTION 10

A customer wants to implement a wireless network in a historic location, but is concerned about the structural and aesthetic impact to the facility. Which benefit of using wireless mesh addresses these concerns?

- A. Power is required only at the installation location.
- B. The APs do not have LED lights.
- C. More wireless channels can be supported.
- D. APs do not need network connections.

Answer: D

NEW QUESTION 12

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 16

An engineer must design wireless coverage in thick-walled stairwells. Which information should the engineer refer to when determining where APs can be installed?

- A. Local or National Building Code
- B. IEEE
- C. BICSI TDMM
- D. Cisco Hardware Installation Guide

Answer: A

NEW QUESTION 18

An engineer is deploying centralized wireless solution with a 5508 controller. What is the most AP licenses that can be supported?

- A. 100
- B. 250
- C. 1000
- D. 500

Answer: D

Explanation:

You can order Cisco 5500 Series Controllers with support for 12, 25, 50, 100, 250 or 500 APs as the controller's base capacity. You can add additional AP capacity through capacity adder licenses available at 25, 50, 100 and 250 AP capacities. You can add the capacity adder licenses to any base license in any combination to arrive at the maximum capacity of 500 APs.

NEW QUESTION 21

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 24

An engineer is preparing for an active site survey of a hospital and is informed that he or she should not enter any active surgery suites. Which option describes how the engineer should address this restriction?

- A. Conduct a passive wireless survey in the restricted areas.
- B. Use the predictive AP placement tool on the wireless controller
- C. Skip the area and estimate where to place the access points.
- D. Arrange to perform survey activities after hours.

Answer: A

Explanation:

Passive Survey

Passive surveys are surveys that are performed with a listen-only mode. The survey client never associates to the access point (AP). Such surveys can be helpful when you look for rogue devices or you want a good gauge of downlink RF coverage from the infrastructure devices. These can be accomplished with a passive survey.

NEW QUESTION 25

What are two advantages of conducting an active survey versus a passive survey when verifying RF coverage? (Choose two.)

- A. verifies packet loss
- B. verifies roaming
- C. verifies SNR
- D. verifies signal level
- E. verifies interferers

Answer: AB

NEW QUESTION 29

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 31

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 coverag
- 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 33

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 38

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 mount 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 41

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 45

You must upgrade a data- based wireless network to support Voice over Wireless. Which RSSI measurement do you use to redesign the wireless network?

- A. -65 dBm
- B. -72 dBm
- C. -75 dBm
- D. -67 dBm

Answer: D

NEW QUESTION 46

A customer is preparing to deploy a wireless network in a stadium and is identifying coverage area requirement for the patrons in suite areas. Which two attributes are relevant to determining these coverage requirements? (Choose two.)

- A. hours of operation
- B. encryption type
- C. authentication type
- D. number of users
- E. device types

Answer: CE

NEW QUESTION 49

An engineer installed a 3702 AP and is getting power from the switch. What is the reason for getting 3x3 MIMO instead of 4x4?

- A. 802.1p
- B. 802.3af
- C. 802.11e
- D. 802.3at

Answer: B

NEW QUESTION 54

When implementing video teleconferencing over a wireless network, which three attributes should be considered when cell planning? (Choose three.)

- A. latency
- B. jitter

- C. throughput
- D. packet loss
- E. client association
- F. number of users on the network

Answer: ABD

NEW QUESTION 58

Which two options describe best practices that must be completed after a wireless installation is finished? (Choose two.)

- A. Make sure that there are no spaces between the devices on the rack that the Wireless Lan Controller is installed.
- B. Consult with the customer to ensure that the IT staff has a complete set of design and installation documents.
- C. Make sure the customer is aware that they should consider purchasing a support contract immediately after the installation is complete.
- D. Spend time with the customer to show them the controller GUI and inform them how they can reach the Cisco TAC if they have any problems.
- E. Test all the customer's wireless devices and applications to ensure they are working properly.

Answer: BE

NEW QUESTION 63

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 64

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 66

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 71

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 74

An engineer has performed a post-installation site survey using Ekahau Site Survey with a recommended adapter. Which two metrics can be different between the adapter used to survey and the client adapter? (Choose two.)

- A. SNR
- B. data rate
- C. DFS
- D. channel overlap

Answer: AB

Explanation:

You must take note on what adapter was used in a site survey. The adapter should have similar characteristics to the adapters on the devices that are actually to be used in the wireless network. You should always verify what type of client adapter was used throughout the survey. A client adapter with a better receiver

sensitivity and stronger antenna does not provide accurate results to compare against clients that are actually used in production.

NEW QUESTION 78

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 83

A downstream packet that contains a DSCP value arrives at the WLC Ethernet interface from the wired source network. The WLC is configured for QoS WLAN 802.1p mapping. How does the WLC treat the CAPWAP QoS marking when leaving the controller interface for the respective AP and final wireless client destination?

- A. No outer CAPWAP or inner QoS tagging is applied.
- B. The outer CAPWAP CoS is marked and capped and the inner DSCP maintains the original marking.
- C. No outer CAPWAP QoS tag is applied, but the original DSCP is maintained inside CAPWAP.
- D. The outer CAPWAP DHCP is marked and capped without any inner DSCP value.

Answer: B

NEW QUESTION 87

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 91

When designing a WLAN, AP placement is important. Which option describes how to rank the density of Aps needed to support location services versus data and voice services?

- A. Data services have the lowest density of APs compared to location services, which has the highest density.
- B. Data services have a lower density of APs compared to location services, but more than voice.
- C. Voice services have the highest density of APs over location and data services.
- D. Voice and data services require a higher density of APs than location services.

Answer: A

NEW QUESTION 96

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 97

An engineer is performing a predictive wireless design for a carpeted office space, which requires voice capability and location services. Which two requirements are inputs to the design? (Choose two.)

- A. overlapping -67 dBm coverage from three access points
- B. overlapping -75 dBm coverage from three access points
- C. overlapping -72 dBm coverage from two access points
- D. continuous -67 dBm coverage from one access point
- E. continuous -72 dBm coverage from one access point

Answer: AD

Explanation:

For a voice network the APs are grouped closer together and have more overlap than a data-only installation because voice clients need to roam to a better AP before dropping packets. Generally, you should create smaller cells than for data-only networks and ensure the overlapping cell edges are at or above -67 dBm.

NEW QUESTION 102

An engineer is assigned to replace an older data-grade autonomous wireless network with a Cisco controllerbased wireless network to meet Voice over WLAN needs. The customer also wants all existing cable infrastructure to be reused and no new cable be specified. How should the engineer respond to the customer's requirements?

- A. Implement the wireless network with the restraints and decrease the TPC neighbor threshold to increase Tx power to provide overlapping cell coverage at sufficient SNR to provide for Voice over WLAN service.
- B. Implement the wireless network with the restraints and utilize high-gain antenna to provide overlapping cell coverage at sufficient SNR to provide for Voice over WLAN service.
- C. Inform the customer that the network will not likely function as desired and a post install survey with the possibility of some new cable would be recommended.
- D. Inform the customer that it is not possible to provide coverage and quality for Voice over WLAN using existing AP locations and an entire overbuild will be necessary.

Answer: B

NEW QUESTION 104

An engineer is shipping equipment, including a battery, for a wireless survey overseas. To ensure that it is accepted onto the aircraft, the battery must comply with which standard?

- A. EC
- B. FCC
- C. IATA non-restricted
- D. FAA

Answer: C

NEW QUESTION 107

Clients are experiencing artifacts in multicast video even though the network was recently upgraded to 802.11n APs. What three configuration changes will be most effective to improve performance? (Choose three.)

- A. increase mandatory data rate
- B. enable 40 MHz wide channels
- C. enable Call Admission Control
- D. increase QoS marking on multicast
- E. enable VideoStream
- F. disable Multicast Messaging

Answer: BCE

NEW QUESTION 112

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 116

When should a Layer I site survey be performed?

- A. briefly during the predictive site survey
- B. briefly during the passive site survey
- C. for an extended period of time during the predeployment site survey and during the post-deployment site survey
- D. for an extended period of time during the predeployment site survey only

Answer: C

NEW QUESTION 118

You must create a simple implementation of QoS on a WIAN. The implementation must allow clients to prioritize traffic into these four classes: voice video best effort background
Which option do you enable?

- A. NBAR2
- B. NetFlow v9
- C. WMM
- D. Cisco AVC

Answer: C

Explanation:

WMM Classification

WMM uses the 802.1P classification scheme (part of the IEEE 802.1D MAC Bridges standard). This classification scheme has eight priorities that WMM maps to four access categories with WMM designations:

AC_BK--Background AC_BE--Best effort AC_VI--Video AC_VO--Voice

NEW QUESTION 120

A wireless engineer is utilizing the voice readiness tool in Cisco Prime for a customer that wants to deploy Cisco IP phones. Which dBm range is the network inspected against?

- A. -75 to -67 dBm
- B. -72 to -65 dBm
- C. -85 to -65 dBm
- D. -85 to -67 dBm

Answer: D

NEW QUESTION 123

While evaluating a post-installation WLAN deployment, problems are occurring when a client roams from one AP to another. The client bounces back and forth between APs. Which two items can be checked to resolve this issue? (Choose two.)

- A. Check if the roaming settings in the AP are set properly for non-CCX clients
- B. Check the RF levels of the first AP as the client moves toward the second AP
- C. Check the client RSSI and SNR levels for both APs at the roaming point
- D. Simplify 802.1X/EAP by moving from external RADIUS to local authentication
- E. Check that the client roaming parameters are set properly

Answer: BC

NEW QUESTION 124

A customer has a business-critical voice network and wants to be alerted whenever voice clients move out of a coverage area and experience RSSI below -67 dBm on the 5 GHz band. Which option can be configured on the wireless controller to alert network administrators when this limit is surpassed?

- A. EDCA; voice optimized
- B. SIP voice sample interval
- C. 802.11a voice RSSI coverage threshold
- D. traffic stream metrics

Answer: C

NEW QUESTION 127

After the completion of a site survey with Ekahau Site Survey tool, using the default color palette, it is noted that multiple areas are shown as white on the heat map when viewing 5 GHz signal strength data. What does this indicate about the signal strength?

- A. The area is below the minimum threshold configured on the tool.
- B. The area is below the detectable level and indicates no RF signal.
- C. The area is below -100 dBm at coverage cell edge.
- D. The area is below -67 dBm at coverage cell edge.

Answer: A

NEW QUESTION 129

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 133

Refer to the exhibit.



Which type of cable connector is displayed that is used to connect antennas to transmitters?

- A. RP-TNC
- B. N
- C. SMA
- D. SMB
- E. MMCX

Answer: B

NEW QUESTION 137

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 140

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 143

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 148

A customer has determined that a cable run for a low-throughput RF design is not economically feasible to install. Which two access point modes can alleviate these customer concerns? (Choose two.)

- A. bridge
- B. sniffer
- C. Flex+Bridge
- D. FlexConnect

E. local

Answer: BC

NEW QUESTION 153

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 157

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