



# 300-360<sup>Q&As</sup>

Designing Cisco Wireless Enterprise Networks

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### QUESTION 1

A customer recently placed 10 WLCs in a mobility group and now sees a large amount of additional traffic to and from the controller. What setting should be changed to reduce the traffic?

- A. Mobility Multicast Messaging
- B. Mobility Unicast Messaging
- C. Mobility Anchor Keep Alive Count
- D. Mobility Anchor Keep Alive Interval

Correct Answer: A

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### QUESTION 2

IEEE 802.11r-2008 or fast BSS transition (FT), also called "fast roaming," Which 802.11 standard performs the PTK calculations in advance to enable fast client roaming?

- A. 802.1 11r
- B. 802.1 11i
- C. 802.1 11k
- D. 802 1 11w

Correct Answer: A

802.11r, Which is the IEEE standard for fast roaming, introduces a new concept of roaming where the initial handshake with the new AP is done even before the client roams to the target AP, which is called Fast Transition (FT). The initial handshake allows the client and APs to do the Pairwise Transient Key (PTK) calculation in advance. These PTK keys are applied to the client and AP after the client does the reassociation request or response exchange with new target AP. <https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/80211r-ft/b-80211r-dg.html>

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### QUESTION 3

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



Correct Answer: C

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#### QUESTION 4

Which type of information should be included in an installation report?

- A. A complete characterization of the external WLAN environment.
- B. The exact number of users the WLAN will support.
- C. Soft copies of configuration for switches, routers, controllers, and location appliances.
- D. A detailed description of the WLAN environment during the post-installation testing, for example, number of people present, furniture, no furniture, and sources of interference present.

Correct Answer: C

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#### QUESTION 5

Which two pieces of physical infrastructure information should be included in the installation report presented to the customer? (Choose two.)

- A. A list of router and switch models, serial numbers and locations.
- B. The total square footage of the customer's facility.
- C. An analysis of the facility exterior wall and roof construction materials.
- D. The cable scan results for the entire customer facility.
- E. An installation inventory of all controllers and APs in the WLAN coverage area.

Correct Answer: DE

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#### QUESTION 6

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

Correct Answer: ABD

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### QUESTION 7

You are designing a wireless mesh network for an oil refinery. What is the Cisco-recommended model of a Cisco Aironet 1550 Series Outdoor Access Point for this location?

A. 1552I

B. 1552CU

C. 1552E

D. 1552H

Correct Answer: D

Cisco Aironet 1552H Access Point This ruggedized, outdoor, 802.11n access point is suitable for generic hazardous environments, and does not require a wireless sensor network.

<https://www.cisco.com/c/en/us/products/wireless/aironet-1550-series/index.html>

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### QUESTION 8

An engineer would like to calibrate the RF environment to improve accuracy. Which wireless attribute is added to the floor-level calculation by calibrating the floor?

A. attenuation

B. TX power

C. multipath

D. SNR

Correct Answer: A

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#### QUESTION 9

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.

Correct Answer: BEF

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#### 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

Correct Answer: A

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#### QUESTION 11

Which two factors influence the density of APs in a data-only WLAN environment? (Choose two.)

- A. Channel reuse and WLAN bandwidth
- B. The type of controller chosen.
- C. The defined coverage area and customer needs.
- D. The number of clients that will roam through the facility.
- E. The number of APs dedicated to voice services.



Correct Answer: AC

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#### QUESTION 12

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

Correct Answer: C

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#### QUESTION 13

A company has deployed a centralized wireless architecture at their headquarters. In this type of deployment, to which network layer do you recommend that the WLC connect?

- A. distribution layer
- B. Data center layer
- C. session layer
- D. access layer

Correct Answer: A

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#### QUESTION 14

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

Correct Answer: AB

#### QUESTION 15

During a post-deployment survey, the wireless engineer notices that offices in surrounding suites also have wireless networks and the 2.4 Ghz band is highly utilized Which configuration must the engineer make on the wireless network using this new information?

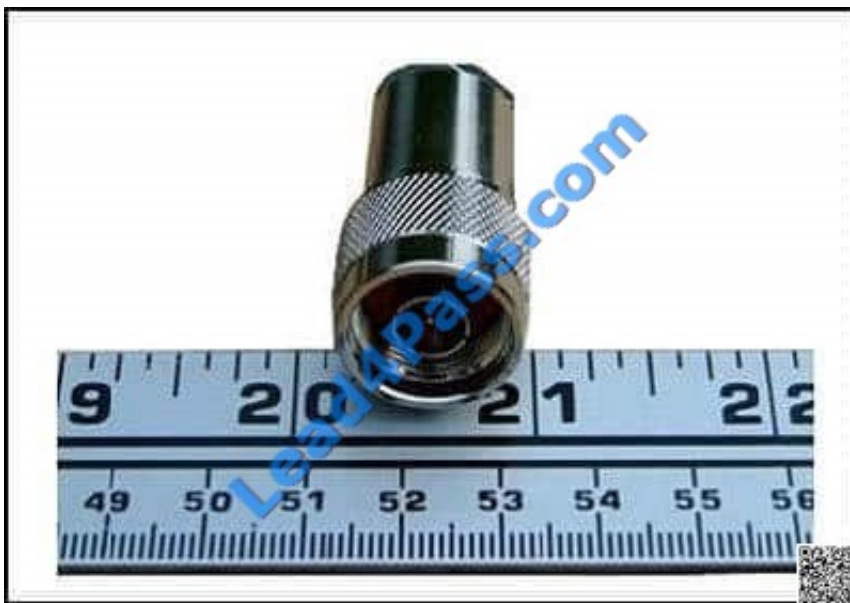
- A. Disable 802.11 b/g data rates.
- B. Enable Band Sect in the WLC
- C. Disable RRM in the WLC.
- D. Enable rogue access point containment.

Correct Answer: D

Monitoring Rogue Access Point Alarms Rogue access point radios are unauthorized access points detected by one or more Cisco lightweight access points. This page displays rogue access point alarms based on the severity you clicked in the Alarm Monitor. [https://www.cisco.com/c/en/us/td/docs/wireless/mse/3350/5-2/wIPS/configuration/guide/msecg\\_wlPS/msecg\\_appB\\_wIPS.html#wp1244525](https://www.cisco.com/c/en/us/td/docs/wireless/mse/3350/5-2/wIPS/configuration/guide/msecg_wlPS/msecg_appB_wIPS.html#wp1244525)

#### QUESTION 16

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

Correct Answer: B

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#### QUESTION 17

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

Correct Answer: A

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#### QUESTION 18

An engineer is preparing for an active site survey of a warehouse and is informed that they should not enter any areas that are blocked by supplies that are difficult to move. Which option describes how the engineer should address this restriction?

- A. Extrapolate restricted access areas by drawing circles for AP coverage
- B. Survey hallways, common areas, and storerooms.
- C. Utilize a predictive tool to define coverage in off-limits areas.
- D. Educate the customer about the importance of accurate and complete measurements.

Correct Answer: D

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#### QUESTION 19





An engineer is configuring an autonomous AP for RADIUS authentication.

What two pieces of information must be known to configure the AP? (Choose two.)

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

Correct Answer: CF

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#### QUESTION 20

An engineer is implementing QoS for a new wireless voice network. Which two considerations should be identified first? (Choose two.)

- A. QoS marking
- B. policing
- C. QoS requirements
- D. data traffic usage
- E. traffic classification

Correct Answer: CE

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#### QUESTION 21

You deploy a wireless network for a common area located outside of a student dorm by using patch antennas. Students report weak signals in specific locations of the coverage area. Which option is a possible cause of the issue?

- A. neighboring buildings
- B. vehicles
- C. trees
- D. Bluetooth interference

Correct Answer: D

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#### QUESTION 22

A wireless engineer is hired to troubleshoot wireless network issues and discovers that the customer is using 802.11ac access points with 80 MHz-wide channels in a high-density environment. Which solution addresses these issues?

- A. Disable RRM on the WLC.
- B. Disable TPC on the WLC
- C. Decrease the channel width.
- D. Increase the minimum data rate supported

Correct Answer: D

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#### QUESTION 23

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.

Correct Answer: A

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#### QUESTION 24

When should a Layer 1 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

Correct Answer: C

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#### QUESTION 25

An engineer is concerned with the compliance guidelines for human exposure to a rooftop RF transmitter that has been recently installed. What regulation should be reviewed to ensure proper certification?

- A. OSHA 1910.97
- B. FCC QET Bulletin 65
- C. NFPS Article 810
- D. SCEE Section 28.1

Correct Answer: B

Evaluating Compliance With FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields; This revised OET Bulletin 65 has been prepared <https://www.fcc.gov/general/oet-bulletins-line>

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#### QUESTION 26

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

Correct Answer: C

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#### QUESTION 27

Cisco 7925G phones are experiencing intermittent connectivity issues. The wireless survey reveals that the facility has no current coverage holes. The radios on the 2.4GHz channel have all been statically set to power level 1. Which two reasons could explain why the phones are having issues on this wireless network? (Choose two.)

- A. The phones are experiencing excessive co-channel interference.
- B. The phones only operate on the 2.4 GHz band when the power level is above 25 mW.
- C. The phones are not transmitting at the same power levels as the access points.
- D. The phones are experiencing delays of less than 30 ms within their coverage cell.
- E. The phones are receiving greater than -67 dBm RSSI on the 2.4 GHz band.

Correct Answer: AC

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### QUESTION 28

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

Correct Answer: BCE

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### QUESTION 29

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

Correct Answer: BD

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### QUESTION 30

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

Correct Answer: C

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 [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/ch5\\_QoS.html](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/ch5_QoS.html)

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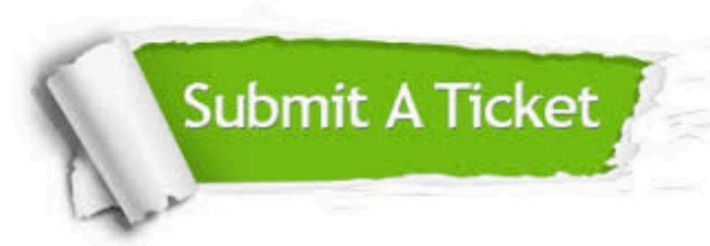
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