



300-360^{Q&As}

Designing Cisco Wireless Enterprise Networks

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**QUESTION 1**

What protocol can be enabled to listen in on IPv4 multicast streams and maintain a map of what each client requests on a wireless LAN controller?

- A. IGMP
- B. MLD
- C. PAP
- D. ICMP
- E. SIP
- F. NTP

Correct Answer: A

QUESTION 2

What is a common cause for signal attenuation?

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

Correct Answer: C

QUESTION 3

A user is running a new video conferencing application on their laptop and is being disconnected as they move from one access point to another. Which situation will cause these disconnects?

- A. P2P blocking is denying connections
- B. FT is not supported by all clients
- C. AAA override needs to be enabled
- D. WMM must be changed to disabled

Correct Answer: C

QUESTION 4



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 19dBm 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.

Correct Answer: BE

QUESTION 5

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

QUESTION 6

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

Correct Answer: CD

QUESTION 7



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.

Correct Answer: B

When it is forbidden to enter the surgery sites, it is not possible to do a passive survey.

QUESTION 8

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

Correct Answer: AB

QUESTION 9

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

QUESTION 10

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

Correct Answer: A

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch2_Arch.html

- Distributed WLC deployment—In the distributed model, WLCs are located throughout the campus network, typically on a per building basis, managing the APs that are resident in a given building. The WLC(s) is connected to the campus network using the distribution routers within the building. In this scenario the LWAPP tunnels, between APs and the WLC typically stay within the building. Figure 2-13 shows a distributed WLC deployment.
-

QUESTION 11

The wireless team must configure a new voice SSID for optimized roaming across multiple WLCs with Cisco 7925 phones. Which two WLC settings accomplish this goal? (Choose two.)

- A. Configure AVC profiles on the SSID
- B. Configure mobility groups between WLCs
- C. Use AVC to tag traffic voice traffic as best effort
- D. Use Cisco Centralized Key Management for authentication
- E. Configure AP groups between WLCs

Correct Answer: BD

QUESTION 12

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

Correct Answer: A

QUESTION 13



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 clientSSO.
- 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.

Correct Answer: B

QUESTION 14

An 802.11n implementation is being discussed. Users are satisfied with the potential 300-450 Mbps throughput of new 802.11n APs. Which three bandwidth requirements are used to calculate per client bandwidth through an 802.11n AP network? (Choose three.)

- A. 450 Mbps throughput is the client max for 5-GHz radio.
- B. Channel bonding on 5 GHz is required for a client to have a 300 Mbps WiFi link.
- C. 300 Mbps throughput is the client max for 2.4-GHz radio.
- D. The remaining bandwidth is divided per device when more clients are connected to one AP.
- E. 100 Mbps Ethernet switch port is a potential bottleneck.
- F. CleanAir helps clear noise for 802.11n channel bonding to work.

Correct Answer: BDE

QUESTION 15

Drag and drop the WMM designations from the left onto the correct 802.1P priority queues on the right.

Select and Place:



video	0,3
best effort	1,2
voice	4,5
background	6,7

Correct Answer:

<input type="text"/>	best effort
<input type="text"/>	background
<input type="text"/>	video
<input type="text"/>	voice

QUESTION 16

What RF phenomenon results from a presence of metallic I-beams, conveyor belts, chain-link fences, and metallic shelves found in a warehousing environment?

- A. scattering
- B. absorption
- C. free path loss
- D. multipath

Correct Answer: D

QUESTION 17



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

Correct Answer: BDE

QUESTION 18

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

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. http://www.cisco.com/c/en/us/td/docs/wireless/access_point/2700/quick/guide/ap2700getst art.html

QUESTION 19

Which description of the ideal VoWLAN design is true?

- A. smaller cells with all data rates enabled to ensure that all clients can associate
- B. larger cells with higher data rates enabled and WPA2 to secure voice conversations



- C. smaller cells with higher data rates enabled and admission control enabled through WMM
- D. smaller cells with higher data rates enabled and no overlap to prevent co-channel interference

Correct Answer: C

QUESTION 20

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.

Correct Answer: D

QUESTION 21

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

Correct Answer: A

<https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-0/configuration/guide/c70/c70mobil.html#pgfId-1093659>



Prerequisites

Before you add controllers to a mobility group, you must verify that the following requirements have been met for all controllers that are to be included in the group:

- IP connectivity must exist between the management interfaces of all controllers.



Note You can verify IP connectivity by pinging the controllers.



Note Mobility control packets can use any interface address as the source, based on routing table. It is recommended that all controllers in the mobility group should have the management interface in the same subnet. A topology where one controller's management interface and other controller's dynamic interface are on same subnet not recommended for seamless mobility.

- All controllers must be configured with the same mobility group name.



Note The mobility group name is generally set at deployment time through the Startup Wizard. However, you can change it if necessary through the Default Mobility Domain Name text box on the Controller > General page. The mobility group name is case sensitive.

QUESTION 22

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

Correct Answer: B

QUESTION 23

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

Correct Answer: BC

QUESTION 24

When planning to perform a customer WLAN site survey, which three components and tasks should be considered? (Choose three.)

- A. Schedule a meeting with the customer to discuss the Statement of Work
- B. Complete the Pre-Survey Customer Questionnaire
- C. Schedule customer end user interviews
- D. Consider travel, access, and equipment requirements necessary to perform the site survey
- E. Schedule initial customer meeting and pre-survey walkthrough events
- F. Determine radio spectrum and channel allocation
- G. Determine AP and controller placement
- H. Determine customer training requirements

Correct Answer: BDE

QUESTION 25

A customer is experiencing slower client data throughput than the data rate setting. Which two wireless characteristics are the primary contributing factors? (Choose two.)

- A. Broadcast and multicast are sent at the lowest associated data rate.
- B. 802.11 acknowledges all packets, which halves throughput on the channel.
- C. Clients that are farther from the access point connect at a slower data rate.
- D. Lower data rates decrease overall throughput.
- E. All clients on a given access point share the bandwidth of the channel.
- F. Overlapping channels cause co-channel interference.

Correct Answer: BE

**QUESTION 26**

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

QUESTION 27

An engineer is upgrading the legacy access points to 802.11ac Wave 2 capable access points. The existing gigabit uplinked switches provide 802.3at. Which switch limitation is a concern?

- A. collision domains
- B. high availability
- C. output power
- D. interface throughput

Correct Answer: C

QUESTION 28

An engineer must enable 5 GHz on the voice for Cisco 7925 phones. Which change must be made in the TPC configuration page?

- A. Set the TPC version to TPCv2
- B. Change the power level method to on demand
- C. Set the minimum transmit to 8dBm
- D. Set the maximum transmit to 17dBm

Correct Answer: D

QUESTION 29



If you are calibrating for 2.4 GHz and the site will not be using 802.11 and 802.11b data rates, what should be done to ensure an accurate calibration?

- A. Make sure that the access points have the unused rates disabled.
- B. Make sure that you are using an 802.11b client when calibrating.
- C. Make certain that there are no legacy clients when performing the calibration because they will disrupt the process.
- D. Make sure to use a client that supports both 802.11b/g and 802.11a.

Correct Answer: A

QUESTION 30

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.

Correct Answer: B

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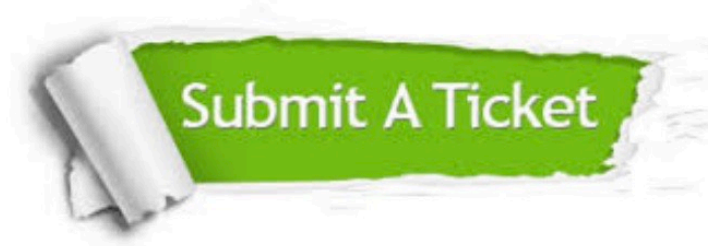
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