# Cisco

## Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)

**NEW QUESTION 1**
A customer is looking for a network design with Cisco Hyperloctation using AP4800 for location tracking via a custom mobile app Issues appeared in the past with refresh rates for location updates. What needs to be implemented to meet these requirements?

A. Cisco CMX SDK in the location app
B. redundant CMX and fetch location in round-robin fashion.
C. device Bluetooth via the app
D. Cisco FastLocate technology

**Answer:** D

**NEW QUESTION 2**
An engineer has designed an anchor redundancy for guest clients connecting to SSID with auto-anchor configured. After adding a second Anchor WLC under the SSID mobility anchor list, clients are load-balanced between existing and new anchors instead of having one anchor as active and the other one as standby. Which feature should be included in the design that will be configured on the WLC running 8.1 or above to ensure anchor redundancy?

A. Auto-Anchor Foreign Mapping
B. AP groups
C. Guest Anchor Priority
D. 802.11r

**Answer:** C

**NEW QUESTION 3**
An engineer is reducing the subnet size of the corporate WLAN by segmenting the VLAN into smaller subnets. Clients will be assigned a subnet by location. Which type of groups can the engineer use to map the smaller subnets to the corporate WLAN?

A. WLC port groups
B. RF groups
C. AP groups
D. interface groups

**Answer:** D

**Explanation:**

- AP groups give the ability to statically map Wi-Fi service (WLAN) to VLAN based on physical location.

- Users see the same Wi-Fi service on all sites.

- Admin can monitor and filter based on different IP@ each site

- Can also be used to have smaller Wi-Fi subnets

**NEW QUESTION 4**
An engineer has successfully configured high availability and SSO using two Cisco 5508 Wireless LAN Controllers. The engineer can access the Active Primary WLC, but the Secondary Standby WLC is not accessible. Which two methods allow access to the standby unit? (Choose two.)

A. via the console connection
B. SSH to the redundancy management interface of the primary WLC
C. SSH to the service port interface
D. SSH to the virtual interface of the secondary WLC
E. SSH to the management interface of the primary WLC

**Answer:** AC

**Explanation:**

Once SSO is enabled, the Standby WLC can be accessed via console connection or via SSH on the service port and on the redundant management interface.

**NEW QUESTION 5**
An engineer is designing a network deployment for a college with six buildings Each building must have a WLC located in the IDF to support the APs. The wireless clients should be able to roam between the APs and the controllers. Which type of wireless architecture should be used?

A. Distributed
B. Centralized
C. Cloud
D. Autonomous

**Answer:** B

**Explanation:**
Cloud-based architecture has controllers in the cloud, not on premises. Autonomous architecture means each AP is autonomous and is not managed by a WLC, distributed architecture is another term for autonomous architecture, so the same applies. Centralized architecture, a.k.a. split-MAC architecture is when all APs are managed centrally by WLCs, they do not need to be co-located. Understanding Cisco Wireless Architectures - CCNA Wireless 200-355 Official Cert Guide (2016) (apprize.best)
https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch2_A

**NEW QUESTION 6**
How does AP failover priority for access points function when configured with priority 1 or 4?

A. When configured with priority 1, the access point is assigned with the highest priority level and itis marked as critica
B. This access point fails over before other access points with the lower priority when there is primary controller failure.
C. When configured with priority 4, the access point is assigned with the highest priority level and it is marked as critica
D. This access point fails over before other access points with the lower priority when there is primary controller failure.
E. When configured with priority 4, the access point is assigned with the lowest priority level and it is marked as lo
F. This access point fails over after other access points with the higher priority when there is primary controller failure.
G. When configured with priority 1, the access point is assigned with the medium priority level and it is marked as mediu
H. This access point fails over after other access points with the higher priority when there is primary controller failure.

**Answer:** B

**NEW QUESTION 7**
A company has 10 access point licenses available on their backup Cisco WLC and their primary Cisco WLC is at full capacity, 5 access points are set to high failover priority and 7 access points are set to critical failover priority. During a failure, not all critical access points failed over to the backup Cisco WLC. Which configuration
is the cause of this issue?

A. The high priority access point is oversubscribed.
B. network ap-priority is set to enable.
C. The critical priority access point count is oversubscribed.
D. network ap-priority is set to disable.

**Answer:** D

**Explanation:**
https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2016/pdf/BRKCOL-2275.pdf

**NEW QUESTION 8**
How are mobility groups created, excluding mobility anchors?

A. The WLGs do not have to be of the same model or type to be a member of a mobility group, however each member should be running different software versions.
B. A mobility group does not require ell WLCs in the group lo use the same virtual IP address.
C. Each WLC must use the same mobility domain name and be defined as a peer in each other's static mobility members list.
D. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair is considered separately as a mobility peer.

**Answer:** D

**NEW QUESTION 9**
How should the concept of mobility domains and mobility groups be explained to a customer?

A. WLCs do not need to be in the same mobility domain to communicate with each other Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.
B. A mobility group does not constrain the distribution of security context of a client and also does not constrain AP fail-over between controllers when the WLCs are in the same mobility domain.
C. if WLCs are in same mobility domain, they communicate with each othe
D. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.
E. If WLCs are in the same mobility domain, they communicate with each other bu
F. if an anchor WLC ® present, it must: be in the same mobility domain for communication to be possible.

**Answer:** C

**NEW QUESTION 10**
Which two considerations must a network engineer have when planning for voice over wireless roaming? (Choose two.)

A. Full reauthentication introduces gaps in a voice conversation.
B. Roaming time increases when using 802.1x + Cisco Centralized Key Management.
C. Roaming occurs when the phone has seen at least four APs.
D. Roaming occurs when the phone has reached -80 dBs or below.
E. Roaming with only 802.1x authentication requires full reauthentication.

**Answer:** AE

**Explanation:**
https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/vowlan/41dg/vowlan41dg-book/vowlan_c

**NEW QUESTION 10**
A customer has two Cisco 550B WLCs that manage all the access points in their network and provide N+1 redundancy and load balancing. The primary Cisco WLC has 60 licenses and the secondary Cisco WLC has 40. The customer wants to convert the N+1 model to an HA model and provide SSO. Configuration must be performed during a maintenance window. After performing all the configurations on both controllers, the config redundancy unit secondary command is issued on the secondary Cisco WLC and it fails. Which parameter needs to be in place to complete the configuration?

A. A cable in the RP port
B. The secondary Cisco WLC needs a minimum of 50 base licenses
C. The primary Cisco WLC is already set as the secondary unit.
D. SSO needs to be enabled

**Answer:** B

**Explanation:**

- With Release 7.4, an HA-SKU secondary controller can be configured as a backup controller for N+1 HA. For example, the following can be used as an HA-SKU controller:

  – 5508 Series Standalone controller with 50 AP license

**NEW QUESTION 14**
An AP is receiving 802.11 packets on its 802.11a radio with an RSSI value of -77 dBm. The current AP is part of an AP group that has been assigned an RF profile with RX-SOP set to Medium for 802.11a. Which action does the AP take with the packets?

A. All frames are classified as non-Wi-Fi frames and are not decoded by the 5 GHz radio.
B. Frames are decoded by the 2.4 GHz radio.
C. All frames are classified as non-Wi-Fi frames and are not decoded by the 2.4 GHz radio.
D. Frames are decoded by the 5 GHz radio.

**Answer:** C

**NEW QUESTION 17**
An engineer has deployed a group of APs in an auditorium and notices that the APs are showing high cochannel interference. Which profile can be used to adjust the parameters for these high-density APs?

A. QoS profile
B. AVC profile
C. RF profile
D. ISE profile

**Answer:** C

**Explanation:**

## Information About RF Profiles

RF Profiles allows you to tune groups of APs that share a common coverage zone together and selectively change how RRM will operates the APs within that coverage zone.

For example, a university might deploy a high density of APs in an area where a high number of users will congregate or meet. This situation requires that you manipulate both data rates and power to address the cell density while managing the co-channel interference. In adjacent areas, normal coverage is provided and such manipulation would result in a loss of coverage.

**NEW QUESTION 21**
An engineer is configuring a centralized set of controllers for separate facilities. Which two Cisco wireless architectures must be used to ensure flexible sizing of WLAN to VLAN mappings? (Choose two.)

A. interface group
B. mobility group
C. AP group
D. controller group
E. RF group

**Answer:** BC

**NEW QUESTION 26**
Guest anchoring is configured for a newly created SSID for your company. It has been noticed that the mobility tunnels are not up, and that MPING fails from your foreign WLC to the anchor WLC. What is the reason that it is failing?

A. A rule is needed at the firewall to allow UDP port 16666 for communication to work.
B. A rule is needed at the firewall to allow UDP port 97 for communication to work.
C. A rule is needed at the firewall to allow TCP port 97 for communication to work.
D. A rule is needed at the firewall to allow TCP port 16666 for communication to work.

**Answer:** A

**Explanation:**

• UDP 16666 for tunnel control traffic

• IP Protocol 97 for user data traffic

• UDP 161 and 162 for SNMP

**NEW QUESTION 28**
An engineer must perform an assessment of a customer LAN for a future IEEE 802.11ac Wave 2 wireless deployment All access switches are Fast Ethernet-Capable only, and the wired infrastructure between existing APs and access switches is based on the CAT 6A standard. Which two actions provide maximum support of Cisco 3800 Series access points? (Choose two.)

A. Replace the existing switches with mGig switches.
B. Replace the existing switches with gigabit switches with 10G uplinks.
C. Ensure that cable distances between access switches and APs are not longer than 100 meters.
D. Replace the existing wiring infrastructure with the CAT-7E wiring standard,
E. Ensure that cable distances between access switches and APs are not longer than 55 meters.

**Answer:** AC

**NEW QUESTION 32**
Where must the APs be mounted when used in a high-density wireless network to provide 6 dB to 20 dB of attenuation to a cell?

A. in the aisle
B. under the seat
C. above the stage
D. under the stage

**Answer:** B

**Explanation:**
Under seat or under desk mounting can provide from 6 dB to 20 dB of attenuation to the cell,

**NEW QUESTION 37**
Which CLI command does an engineer use to validate that the redundancy peer of a Stateful Switchover pair of controllers is up and connected?

A. rping
B. ping
C. eping
D. mping

**Answer:** B

**Explanation:**
Both the WLCs in HA setup keep track of gateway reachability. The Active WLC sends an Internet Control Message Protocol (ICMP) ping to the gateway using the Management IP address as the source,

**NEW QUESTION 40**
During a wireless network design, a customer requires wireless coverage on the perimeter of a building but also wants to minimize signal leakage from the wireless network. Which antenna should be used to accomplish this design?

A. Patch
B. Dipole
C. Monopole
D. Omnidirectional

**Answer:** C

**Explanation:**
https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/antennas/installing-combined/industrial-routers-an

**NEW QUESTION 45**
A network engineer is configuring high availability on an access point. What is the maximum number of controllers that can be configured?

A. 1
B. 2
C. 3
D. 4

**Answer:** B

**Explanation:**

The N+1 HA architecture provides redundancy for controllers across geographically separate data centers with low cost of deployment.

So max 2 will be supported on an AP.

**NEW QUESTION 49**
A company wants to replace its existing PBX system with a new VoIP System that will include wireless IP phones. The CIO has concerns about whether the company's existing wireless network can support the new system. Which tool in Cisco Prime can help ensure that the current network will support the new phone system?

A. Location Readiness
B. Site Calibration
C. Map Editor
D. Voice Readiness

**Answer:** D

**Explanation:**

The VoWLAN Readiness (voice readiness) tool allows you to check the RF coverage to determine if it is sufficient for your voice needs.

**NEW QUESTION 51**
APs in a remote office recently have been converted from local mode to FlexConnect to take advantage of the local switching. After the change, remote wireless users report voice quality issues and bad quality on wireless IP phones while roaming. A debug is performed, and it is noticed that the 802.11r Fast Transition is not working as expected, like on local mode AP, though the same WLAN configuration is in place. What is the cause of the issue regarding the FlexConnect APs?

A. They do not support 802.11r FT.
B. They must be added into AP groups along with a common RF profile.
C. They must be in a FlexConnect group to support 802.11r FT.
D. They must be added to AP groups to support fast roaming methods.

**Answer:** A

**NEW QUESTION 52**
An engineer is performing a predictive wireless design for a medical treatment environment, which requires data and voice services. What is the minimum requirement for the design?

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

**Answer:** B

**Explanation:**

☑ The TX power of 17 dBi is 50mW. What you see on your laptop of a -20 dBm is a good signal. Cisco's recomendation for data is a max of -72 dBm and for voice it is -65dBm. You will notice this when you start walking away from your AP. So if you are planning on adding another ap, you would want your coverage to be bordering eithe -72 dBm or -65 dBm.

So -67dBm covers both Data & Voice with a single AP

**NEW QUESTION 54**
An engineer is designing an outdoor mesh network to cover several sports fields. The core of the network is located in a building at the entrance of a sports complex. Which type of antenna should be used with the RAP for backhaul connectivity?

A. 5 GH
B. 8-dBi omnidirectional antenna
C. 2.4 GH
D. 8-dBi patch antenna
E. 2.4 GH
F. 14-dBi omnidirectional antenna
G. 5 GH
H. 14-DBi patch antenna

**Answer:** A

**Explanation:**
https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-antennas-accessories/product_data_she

**NEW QUESTION 56**
A customer is concerned about mesh backhaul link security. Which level of encryption does the backhaul link use?

A. hash
B. AES
C. WEP

D. 3DES

**Answer:** B

**Explanation:**

In a Cisco wireless backhaul network, traffic can be bridged between MAPs and RAPs. This traffic can be from wired devices that are being bridged by the wireless mesh or CAPWAP traffic from the mesh access points. This traffic is always AES encrypted when it crosses a wireless mesh link such as a wireless backhaul.


**NEW QUESTION 58**
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 strategy will reduce the negative impact of the design?

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

**Answer:** A


**NEW QUESTION 61**
Which two criteria must be considered when conducting an outdoor bridge site survey? (Choose two.)

A. near-far effect
B. weather
C. traffic lights
D. power lines
E. Fresnel zone

**Answer:** AD

**Explanation:**
https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-survey-guide


**NEW QUESTION 64**
An engineer is designing a wireless network to support high availability. The network will need to support the total number of APs and client SSO. Live services should continue to work without interruption during the failover Which two requirements need to be incorporated into the design to meet these needs? (Choose two.)

A. redundant WLC
B. controller high availability pair with one of the WLCs having a valid AP count license
C. 10 sec RTT
D. back-to-back direct connection between WLCs
E. WLC 7.5 code or more recent

**Answer:** BD

**Explanation:**
https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/7-5/High_Availability_DG.html#pgfId


**NEW QUESTION 67**
An engineer is conducting a Layer 2 site survey. Which type of client must the engineer match to the survey?

A. best client available
B. phone client
C. normal client
D. worst client available

**Answer:** D

**Explanation:**

https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-survey-g


**NEW QUESTION 71**
Which non-Wi-Fi interferer can be identified by Metageek Chanalyzer?

A. PDAs
B. jammers
C. smartphones
D. printers

**Answer:** B

**Explanation:**
https://www.metageek.com/training/resources/wifi-and-non-wifi-interference

A jamming transmitter creates constant noise across each frequency. These are used in a denial-of-service attack, and
will prevent other wireless technologies from fully operating.

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**NEW QUESTION 72**
Which statement about creating a mobility group is true, excluding mobility anchors?

A. Each WLC must use the same mobility name and be defined as a peer in each other's static mobility members list.
B. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair considered separately as a mobility peer.
C. The WLCs do not have to be of the same model or type to be a member of a mobility group, however each member should be running different software versions.
D. A mobility groups does not require all WLCs in the group to use the same virtual IP address.

**Answer:** B

**Explanation:**

- The HA pair of AireOS WLCs should be considered **as separated**
  **WLCs with** the **same exact** configuration

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**NEW QUESTION 74**
A network engineer needs to create a wireless design to bridge wired IP surveillance cameras in the parking lot through a mesh AP. To which operate mode of the AP should the cameras connect?

A. Flexconnect
B. MAP
C. RAP
D. Local

**Answer:** B

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**NEW QUESTION 77**
Drag and drop the characteristics from the left onto the correct functionalities on the right.

| complex configuration on the Cisco WLC and infrastructure | **Multiple AP-Manager Interfaces** |
| achieves optimal AP join process with src-dst-ip load-balancing | |
| simple configuration on the Cisco WLC and infrastructure | **LAG** |
| avoids single point of failure on neighbor switches | |

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**
https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-4/configuration/guides/consolidated/b_cg74_CONS

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**NEW QUESTION 78**
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