

# Cisco

## Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)



#### NEW QUESTION 1

A customer requires that two wireless APs be installed in a reception area, in a historic building, the impact of the APs on the appearance of the reception area must be minimized. Which two AP antennas should be used? (Choose two.)

- A. AP with a Yagi antenna
- B. AP with a patch antenna
- C. AP with a monopole antenna
- D. AP with an integrated antenna
- E. AP with a dipole antenna

**Answer:** AB

#### NEW QUESTION 2

An engineer is designing a wireless deployment for a university auditorium. Which two features can be used to help deal with the issues introduced by high AP count? (Choose two.)

- A. TSPEC
- B. RXSOP
- C. TPC
- D. LSS
- E. DFS

**Answer:** CE

#### Explanation:

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/80211/200069-Overview-on-802-11h-Transmit-P>

#### NEW QUESTION 3

What is the recommended cell overlap when designing a wireless network for Cisco Hyperlocation?

- A. 20%
- B. 30%
- C. 40%
- D. 50%

**Answer:** A

#### Explanation:

- 20% cell overlap for optimized roaming and location calculations

#### NEW QUESTION 4

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 5

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 6

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](https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch2_A)

#### NEW QUESTION 7

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 it is marked as critical
- 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 critical
- 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 low
- 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 medium
- H. This access point fails over after other access points with the higher priority when there is primary controller failure.

**Answer:** B

#### NEW QUESTION 8

An enterprise is using two wireless controllers to support the wireless network. The data centre is located in the head office. Each controller has a corporate WLAN configured with the name Corp-NET390595865WLC-1 and Corp-NET68371638WLC-2. The APs are installed using a round-robin approach to load balance the traffic. What should be changed on the configuration to optimize roaming?

- A. Move all access points to one controller and use the other as N+1 HA.
- B. Use the same WLAN name for the corporate network on both controllers.
- C. Use the same WLAN name for the corporate network on both controllers.
- D. Place the access points per floor on the same controller.

**Answer:** A

#### NEW QUESTION 9

An enterprise is using the wireless network as the main network connection for corporate users and guests. To ensure wireless network availability, two standalone controllers are installed in the head office. APs are connected to the controllers using a round-robin approach to load balance the traffic. After a power cut, the wireless clients disconnect while roaming. An engineer tried pinging from the controller but failed. Which protocol needs to be allowed between the networks that the controllers are installed?

- A. IP Protocol 67
- B. IP Protocol 77
- C. IP Protocol 87
- D. IP Protocol 97

**Answer:** D

**Explanation:**

Mobility data traffic is carried via Ethernet over IP (EoIP) which is IP protocol 97. This is the IP protocol number, not a TCP/UDP port value.

#### 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 10

An engineer is designing a new wireless network. The network needs to meet these requirements:

- support a high wireless client concentration
- support data over wireless
- support voice over wireless
- avoid interference

Which design approach should be taken?

- A. 5 GHz frequency band with channel bonding, to support 40 MHz channels
- B. 5 GHz frequency band without channel bonding, to support 20 MHz channels
- C. 5 GHz frequency band with channel bonding, to support 80 MHz channels.
- D. 2.4 GHz frequency band without channel bonding, to support 20 MHz channels

**Answer: D**

**Explanation:**

<https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/108184-config-802-1>

#### NEW QUESTION 11

Refer to the exhibit.

Redundancy Mgmt Ip	172.25.44.4
Peer Redundancy Mgmt Ip	172.25.44.5
Redundancy port Ip	169.254.44.4
Peer Redundancy port Ip	169.254.44.5
Redundant Unit	Primary
Mobility Mac Address	60:73:5C:D1:76:00
Keep Alive Timer (100 - 1000)	100 milliseconds
Keep Alive Retries (3 - 10)	3
Peer Search Timer (60 - 300)	120 seconds
Management Gateway Failover	Enabled
SSO	Disabled

An enterprise is using wireless as the main network connectivity for clients. To ensure service continuity, a pair of controllers will be installed in a datacentre. An engineer is designing SSO on the pair of controllers. What needs to be included in the design to avoid having the secondary controller go into maintenance mode?

- A. The Keep alive timer is too lo
- B. which causes synchronization problems.
- C. The connection between the redundancy ports is missing.
- D. The redundancy port must be the same subnet as the redundancy mgmt.
- E. The Global Configuration of SSO is set to Disabled on the controller.

**Answer: B**

**Explanation:**

‘There are few scenarios where the Standby WLC may go into Maintenance Mode and not be able to communicate with the network and peer: • Non reachability to Gateway via Redundant Management Interface • WLC with HA SKU which had never discovered peer • Redundant Port is down • Software version mismatch (WLC which boots up first goes into active mode and the other WLC in Maintenance Mode)’ High Availability (SSO) Deployment Guide – Cisco

#### NEW QUESTION 16

A network engineer is preparing for an office site survey with a height of 2.5 meters. Which three components are recommended to complete the survey? (Choose three.)

- A. Use a battery pack to power APs
- B. Use a drawing of the office space to draw AP and client placements.
- C. Use DoS attack on APs while measuring the throughput.
- D. Use APs with directional antennas.

- E. Use APs with external antennas.
- F. Use APs with built-in antennas.

**Answer:** ABF

**Explanation:**

[https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/8-4/b\\_mesh\\_84/Site\\_Preparation\\_and\\_Plannin](https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/8-4/b_mesh_84/Site_Preparation_and_Plannin)

#### NEW QUESTION 21

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 26

Clustering Cisco WLCs into a single RF group enables the RRM algorithms to scale beyond the capabilities of a single Cisco WLC. How many WLC and APs in an RF group can the controller software scale up to in WLC release 8.9 depending on the platform?

- A. up to 20 WLCs and 1000 APs
- B. up to 20 WLCs and 3000 APs
- C. up to 20 WLCs and 4000 APs
- D. up to 20 WLCs and 6000 APs

**Answer:** D

**Explanation:**

- Controller software supports up to 20 controllers and 6000 access points in an RF group.

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-9/config-guide/b\\_cg89/radio\\_resource\\_managemen](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-9/config-guide/b_cg89/radio_resource_managemen)

#### NEW QUESTION 28

An enterprise is using a Cisco AireOS controller and Wi-Fi 6 APs. The controller is installed in the head office, and the employees primarily use Apple OS devices. The APs broadcast WLAN ENT-WLAN406558520-1 for the employees and a guest WLAN with similar naming. What needs to be enabled on the controller to optimize roaming?

- A. Aggregated Probe Response Optimization
- B. Fast SSID Changing
- C. Load Balancing Window
- D. Client Timers

**Answer:** B

#### NEW QUESTION 33

A medium-sized hospitality company with 50 hotels needs to upgrade the existing WLAN in each hotel to 802.11n. During the site surveys for each hotel, what needs to be taken into consideration when determining the locations for each AP?

- A. Selecting locations that are easily accessed so maintenance and upgrades can be performed quickly.
- B. Selecting AP locations where power is already available.
- C. Selecting APs that can be hidden in ceiling panels to provide a secure and clean aesthetic look.
- D. Selecting locations that make visual assessment of the AP operation easy.

**Answer:** B

#### NEW QUESTION 35

An engineer is using a Cisco AIR-2702i AP to conduct a Layer 1 site Survey, which mode is selected for the AP to discover non-Wi-Fi interference with metageek chanalyzer?

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

**Answer:** D



#### NEW QUESTION 38

An engineer must configure the virtual IP address on multiple controllers in a mobility group. Which rule must the engineer follow to ensure proper roaming?

- A. Ensure that the DNS entry is tied to the virtual IP address of the WLC.
- B. Use a unique IP address for each WLC.
- C. Ensure that the DNS Host Name field is defined.
- D. Use the same IP address for each WLC.

**Answer:** A

**Explanation:**

All controllers within a mobility group must be configured with the same virtual interface IP address.

#### NEW QUESTION 41

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 43

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 46

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. Use AIR-AP-BRACKET-1 to allow for greater mounting locations
- D. Deploy environmentally friendly cabling components to blend into the environment.

**Answer:** D

**Explanation:**

- Use cables that are resistive to bend loss if excessive bending of cables cannot be prevented due to installation constraints.
- Avoid mounting the cabling components in places that block accessibility to other equipment (such as a power strip or fans) in and out of the racks.

#### NEW QUESTION 47

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 is 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 group 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

**NEW QUESTION 51**

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**

**NEW QUESTION 54**

A wireless engineer must design mobility between two buildings at a campus site. The engineer has one controller at each site. The engineer is investigating inter-controller CAPWAP data and control traffic. Which two ports must be open? (Choose two.)

- A. 5246
- B. 5247
- C. 8443
- D. 16666
- E. 16667

**Answer: CD**

**NEW QUESTION 59**

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