

300-425 Dumps

Designing Cisco Enterprise Wireless Networks (ENWLSD)

<https://www.certleader.com/300-425-dumps.html>



NEW QUESTION 1

An engineer must ensure that the new wireless LAN deployment can support seamless roaming between access points using a standard based on an amendment to the 802.11 protocol. Which protocol must the engineer select?

- A. 802.11i
- B. 802.11ac
- C. 802.11r
- D. 802.11e

Answer: C

Explanation:

The 802.11r Fast Transition (FT) Roaming is an amendment to the 802.11 IEEE standards.

NEW QUESTION 2

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 3

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 4

An engineer must ensure that the wireless network can accomplish fast secure roaming by way of caching keys on the access points. Which key caching mechanism is enabled by default on a Cisco AireOS WLC?

- A. SKC
- B. OKC
- C. 802.11r
- D. CCKM

Answer: B

Explanation:

Step 2 Enable sticky key caching by entering this command:

```
config wlan security wpa wpa2 cache sticky enable wlan_id
```

By default, SKC is disabled and opportunistic key caching (OKC) is enabled.

An extension of this technique is known as OKC (Opportunistic Key Caching), a method not defined in 802.11i but necessary to enable optimized roaming at layer 2 for client devices moving between APs. Using OKC, all APs on the same layer 2 network will receive a copy of a client's PMK ID, enabling client devices authenticated via 802.1X to authenticate with decreased latency whilst roaming. In this fashion, even if a client has not been

NEW QUESTION 5

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 6

As part of a wireless site survey in a hospital, an engineer needs to identify potential Layer 1 interferers. In which two areas is the engineer most likely to find sources of 2.4 GHz and 5 GHz RF noise? (Choose two.)

- A. magnetic resonance imaging
- B. kitchen
- C. Gamma Knife radiation treatment
- D. X-ray radiography
- E. patient room

Answer: BE

Explanation:

<https://www.ciscopress.com/articles/article.asp?p=2351131&seqNum=2>

NEW QUESTION 7

A wireless engineer is designing a wireless network for a warehouse using access points with internal antennas. Which two elements have a negative effect on the wireless users? (Choose two.)

- A. wireless channels
- B. access point height
- C. client authentication
- D. client authorization
- E. absorption

Answer: BE

Explanation:

https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-1250-series/design_guide_c07-693245.html#

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 Copr-NET390595865WLC-1 and Copr-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

During a client roaming event, which device is responsible for communicating the new Layer 2 EID mapping of a wireless supplicant to the fabric domain?

- A. WLC
- B. BN
- C. CP2
- D. CP1

Answer: A

Explanation:

<https://www.cisco.com/c/dam/en/us/td/docs/cloud-systems-management/network-automation-and-management/>

NEW QUESTION 10

A network engineer is working on a predictive WLAN design, the new wireless network must support access to Internet, email, voice, and the inventory database, to successfully support these services, which configuration must the engineer use for the signal strength levels and SNR on the planning tool?

- A. signal strength of -67 dBm, 25-dB SNR, and maximum 1 percent packet loss.
- B. signal strength of -67 dBm, 20-dB SNR, and maximum 5 percent, packet loss.
- C. signal strength of 67 dBm, 20-dB SNR, and maximum 1 percent packet loss.
- D. signal strength of -70 dBm, 30-dB SN
- E. and maximum 10 percent packet loss.

Answer: A

Explanation:

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

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 15

Campus users report a poor wireless experience. An engineer investigating the issue notices that in high-density areas, the wireless clients fail to switch the AP to which are automatically connected. This sticky client behavior is causing roaming issues. Which feature must the engineer configure?

- A. Load balancing and band select
- B. optimized roaming
- C. Layer 3 roaming
- D. Layer 2 roaming

Answer: B

Explanation:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/80/hdx_final/b_hdx_dg_final/high_de

NEW QUESTION 19

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 23

A wireless network consultant must assess an existing wireless LAN controller. Which section must the consultant check before replacing the old APs with APs that are IEEE 802.11ac-capable?

- A. number of AP licenses
- B. controller PSU
- C. throughput capacity
- D. software version

Answer: A

Explanation:

<https://www.cisco.com/c/en/us/products/collateral/wireless/catalyst-9100ax-access-points/nb-06-802-11ax-faq-c>

NEW QUESTION 27

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 28

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

NEW QUESTION 33

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 34

Which UDP port numbers are used for exchange mobility packets in an AireOS wireless deployment?

- A. UDP 16666 for control plane, EoIP (IP protocol 97) for data plane
- B. UDP 16668 for control plane, UDP 16667 for data plane
- C. UDP 16667 for control plane, UDP 16666 for data plane
- D. UDP 16666 for control plane, UDP 16667 for data plane

Answer: D

Explanation:

- Enable these UDP ports for Mobility traffic:

- **16666 - Secured Mode**
- **16667 - Unsecured Mode**

NEW QUESTION 37

WLC SSO is set up between two WLCs in a service provider network serving public spaces. On WLC failover, it is noticed that only about half of the original client count is now showing on the secondary WLC, although it is currently showing the role as active. Which design side case explains the issue?

- A. The secondary WLC platform does not support the required client count.
- B. The WLCs had not completed database sync before the primary failure.
- C. SSO is not configured correctly.
- D. Some client sessions were in WebAuth-Req state before failover.

Answer: D

NEW QUESTION 39

A customer has multiple WLCs running N+1 redundancy with APs equally distributed. Only one WLC is a designated backup for all other WLCs so the customer must ensure that the most critical APs remain registered or get priority over other APs in case of a WLC failure. However, the customer notices on WLC failure that some critical APs remain unregistered What needs to be addressed in the design?

- A. AP fallback is not enabled on the backup WLC.
- B. AP failover priority is not enabled globally on the backup WLC.
- C. AP failover priority is not enabled globally on the failed WLC.
- D. AP fallback is not enabled on the failed WLC.

Answer: C

NEW QUESTION 40

A customer called with a requirement that internal clients must be on different subnets depending on the building they are in. All access points are operating in

local mode and will not be modified, and this is a single controller solution. Which design approach creates the desired result?

- A. Create AP groups for each desired location, map the correct VLANs to the internal SSID, and add the access points for that location.
- B. Create an SSID place it to the desired VLAN under WLANs and configure 802.1x in ISE to assign the correct VLAN based on the SSID from which the client is authenticating
- C. Create FlexConnect groups, place the access points in, and set the correct VLAN to SSID mapping based on location.
- D. Create mobility anchors for the SSID and on the controller under the internal SSID create a foreign map to the desired VLAN based on location.

Answer: A

Explanation:

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-vlan/71477-ap-group-vlans-wlc.html>

NEW QUESTION 44

A wireless engineer is hired to design a network for a technology company. The company campus has four buildings and a warehouse with access points that provide full wireless coverage as well as a pair of WLCs located in the core of the network. Which type of wireless architecture is being used?

- A. unified deployment
- B. autonomous deployment
- C. centralized deployment
- D. distributed deployment

Answer: C

Explanation:

Centralized – Works across APs and WLCs in the same Mobility group

NEW QUESTION 45

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 50

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 53

A wireless engineer is performing a post verification of a wireless network. Which two metrics does the engineer verify to ensure that the wireless network can support voice services? (Choose two.)

- A. The coverage area must have a noise floor that does not exceed -87 dBm.
- B. The client device must have at least an -67 dBm RSSI.
- C. The rate of retransmitted packets must be 15 percent or below.
- D. The rate of retransmitted packets must be 20 percent or below.
- E. The client device must have at least an -65 dBm RSSI.

Answer: BC

Explanation:

1. The optimal VoWLAN Cell Edge recommendation is -67 dBm.

5. Retransmissions should be kept under 20 percent.

NEW QUESTION 56

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#pgfld

NEW QUESTION 57

During a wireless design all APs are mapped to designated controllers in case of a failure. The controllers are located in the same data center but in different racks. An AP failed over to a controller that was not defined on its High Availability tab. The customer does not want the AP to move back to its defined Cisco WLCs until they manually intervene. What needs to be addressed in the design?

- A. Set AP fallback to enabled.
- B. Set AP fallback to disabled.
- C. Change the HA SKU secondary unit option.
- D. Change the default mobility domain.

Answer: B

NEW QUESTION 62

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 65

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