300-425 Q&As

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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QUESTION 1

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.

Correct Answer: C

Reference: https://www.cisco.com/c/dam/en/us/td/docs/wireless/controller/technotes/80211r-ft/b-80211r-dg.html

QUESTION 2

An engineer at a global enterprise organization must ensure that a mesh deployment has the highest number of channels available to the backhaul, regardless of region deployed, which design meets this requirement?

A. one controller per continent

B. one controller per country code

C. redundant controllers in the most restrictive regulatory domain

D. redundant controllers in the least restrictive regulatory domain

Correct Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/config-guide/b_cg85/country_codes.html

QUESTION 3

An engineer has performed a predictive site survey for high-speed data and voice in an indoor office. What is the recommended data rate with-67 dBm signal level for optimal VoWLAN design?

A. 6 Mbps on 802.11 bgn

B. 24 Mbps on 802.11 bgn

C. 12 Mbps on 802.11 an

D. 24 Mbps on 802.11 an

Correct Answer: B

Reference:

The -67 dBm measurement has been used for years for 11b phone clients from many vendors. Tests indicate that this same rule of thumb measurement works well for 11g and 11a phone clients.

The lower data rates in 11a can be disabled, the 24 Mbps

data rate can be set to "required",

QUESTION 4

An engineer designed a new wireless network for an enterprise customer. The customer is concerned that some wireless features may not be available because the bill of materials has only Base and no WPlus licenses for the Cisco WLC version 8. What is the reason for the engineer to take this approach regarding the licenses?

A. OfficeExtend AP needs a WPlus license.

B. CAPWAP Data Encryption licenses are required for this feature.

C. All WLC features are available because WPLUS license is now included in the Base license.

D. To have all the features, Plus licenses must be installed on the WLC.

Correct Answer: D

QUESTION 5

An engineer is designing a new wireless network. Based on the design, OfficeExtend AP functionality must be used. Which type of license must the Cisco 5520 WLC v8.3 have?

A. Base license

B. OfficeExtend AP license

C. WPlus license

D. Plus license

Correct Answer: A

Explanation:

The base license supports the standard base software set, and the premium software set is included as part of the base feature set, which includes this functionality:

Datagram Transport Layer Security (DTLS) data encryption for added security across remote WAN and LAN links.

The Availability of data DTLS is as follows: Cisco 5500 Series Controller—The Cisco 5500 Series Controller will be available with two licensing options: One with data DTLS capabilities and another image without data DTLS. 2500, WiSM2

QUESTION 6

An engineer is designing a wireless network to support Cisco Hyperlocation. The customer indicated some locations that require high density. How is the design adjusted?

A. Add additional APs to all the comers of the site.

B. Add more APs than indicated from the site survey spread across all areas.

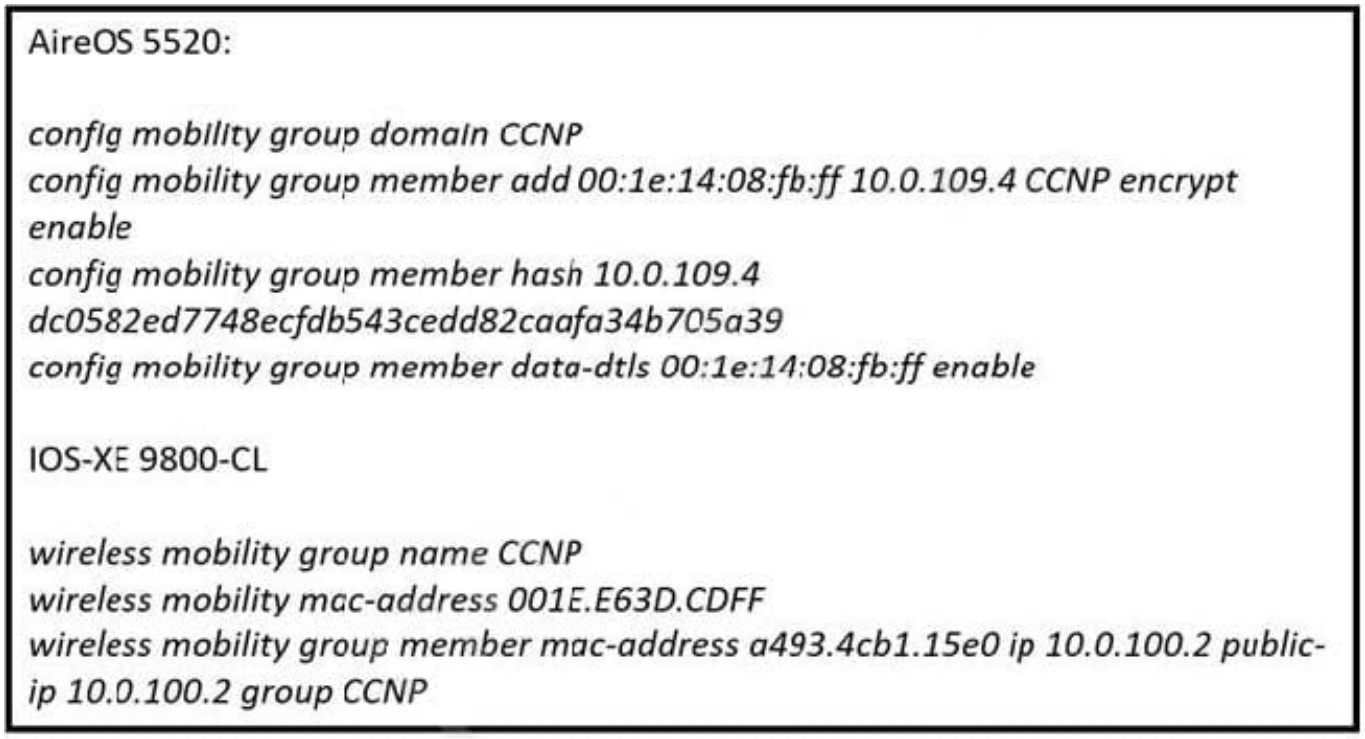
C. Add an additional AP in the middle of the dense area.

D. Run the site survey using -57dBm as a threshold.

Correct Answer: C

QUESTION 7

Refer to the exhibit.



An engineer is about to establish a mobility peer connection between a Cisco Catalyst 9800-CL version 16.10.1e and Cisco AireOS 5520 version 8.8.120.0. The data path between the 9800-CL and AireOS 5520 is down, but its control path is up. Based on the configuration, what is the cause of the issue?

A. The certificate hash key is incorrect leading to data path down.

B. The data-link-encryption configuration is missing from the 9800-CL configuration.

C. Encrypted mobility is being used in the 5520 configuration leading to data path down.

D. CAPS is used to key in MAC address in the IOS_XE configuration leading to data path down.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/support/docs/wireless/catalyst-9800-series-wireless-controllers/213913-building-mobility-tunnels-on-catalyst-98.html#anc9

QUESTION 8

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

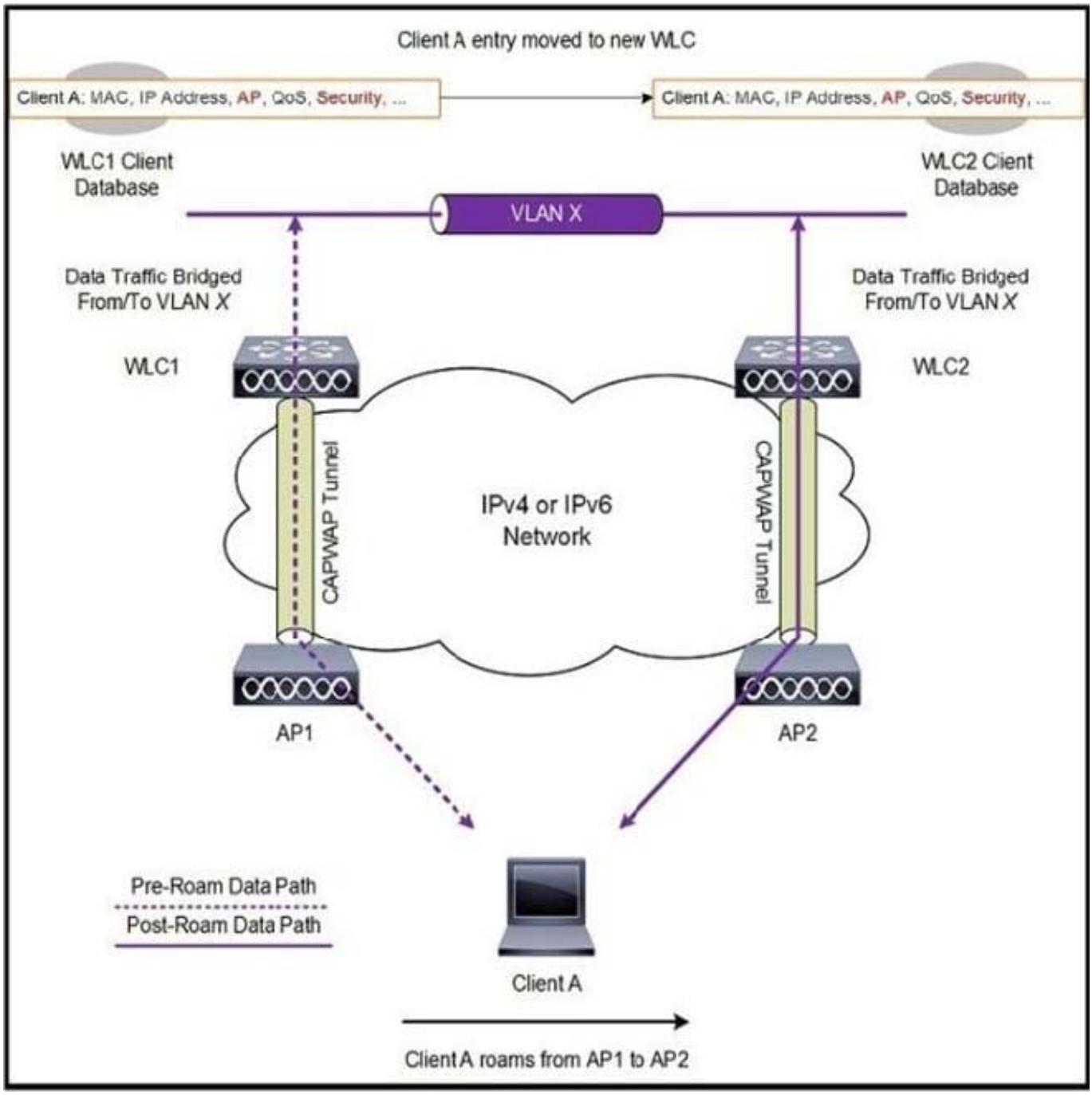
D. Omnidirectional

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/antennas/installing-combined/industrial-routers-and-industrial-wireless-antenna-guide/ANT-MP-INT-OUT-M.html

QUESTION 9

Refer to the exhibit.



Client A is roaming from AP1 on WLC1 to AP2 on WLC2. The client roams between two APs registered to two different controllers. The WLAN on the two controllers is on a different subnet. Which scenario explains the client\\'s roaming behavior?

A. The client database entry is different than that of Layer 2 roam. (Instead of copying, it moves the database to the new controller.)

B. The client database entry is different than that of Layer 2 roam. (Instead of moving, it copies the database to the new controller.)

C. The client database entry is different than that of Layer 2 roam because the client database is neither moved nor copied into the new controller.

D. The client database remains in the mobility anchor controller and it is not copied or moved.

Correct Answer: B

QUESTION 10

A customer deploys a new Cisco high-density wireless network within the open areas of a mall to provide free public wireless on 5 GHz. The existing mall tenants have their own wireless networks that are independently managed. Which design approach minimizes channel utilization for the public network?

A. Enable all 5-GHz channels that are supported by the region and use 40-MHz channels.

B. Enable UNII-1 channels only and use 80-MHz channels.

C. Enable UNII-1 channels only and use 20-MHz channels.

D. Enable all 5-GHz channels that are supported by the region and use 20-MHz channels.

Correct Answer: C

QUESTION 11

Based on a wireless network design, an engineer configured a primary and secondary controller for their APs. A power interruption caused the primary Cisco WLC to go down, and, as expected, all APs joined the secondary controller. When the primary controller came back up, all the APs remained joined to the secondary controller. Which approach must the engineer take for the APs to move back to the primary?

A. Set AP Failover Priority to 4 on each AP.

B. Set AP Fallback to Enabled on the secondary controller.

C. Set AP Fallback to Enabled on the primary controller.

D. Set AP Failover Priority to Critical globally.

Correct Answer: C

QUESTION 12

A company is in the process of relocating to a new office space and finds out that the Internet circuit will not be ready before the move. The new building has a non-Cisco WLAN to which they can connect. The engineer has a 12-port switch and one Cisco autonomous AP and must connect multiple wired devices. Which additional device is needed to get all clients connected over the workgroup bridge?

A. router

B. transparent firewall

C. hub

D. wireless controller

Correct Answer: C

QUESTION 13

Refer to the exhibit.

Which two statements about Cisco Prime Infrastructure are true? (Choose two.)

A. It presents the recommended number of APs for the selected coverage area based on the selections made.

B. Planning mode requires a special license in Cisco Prime Infrastructure.

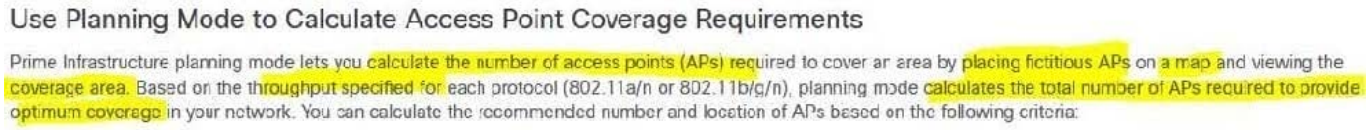
C. It shows the map editor feature in Cisco Prime Infrastructure.

D. Controllers must be synchronized with Cisco Prime Infrastructure for planning mode to work.

E. It shows the planning mode feature in Cisco Prime Infrastructure.

Correct Answer: AE

Reference:


Use Planning Mode to Calculate Access Point Coverage Requirements

Prime Infrastructure planning mode lets you calculate the number of access points (APs) required to cover an area by placing fictitious APs on a map and viewing the coverage area. Based on the throughput specified for each protocol (802.11a/n or 802.11b/g/n), planning mode calculates the total number of APs required to provide optimum coverage in your network. You can calculate the recommended number and location of APs based on the following criteria:

QUESTION 14

A customer has two Cisco wireless controllers named WLC-A and WLC-B. Each controller is in a different building on a campus. The WLCs have different Layer 3 interfaces and broadcast the same SSIDs from their respective APs. Users must remain connected to the same VLAN and maintain their IP addresses during roaming from the APs that are attached to WLC-A and WLC-B. Which action accomplishes the requirement?

A. Create a mobility group between the two WLCs to allow auto-anchoring.

B. Create an SSO cluster to ensure that client sessions sync between WLCs.

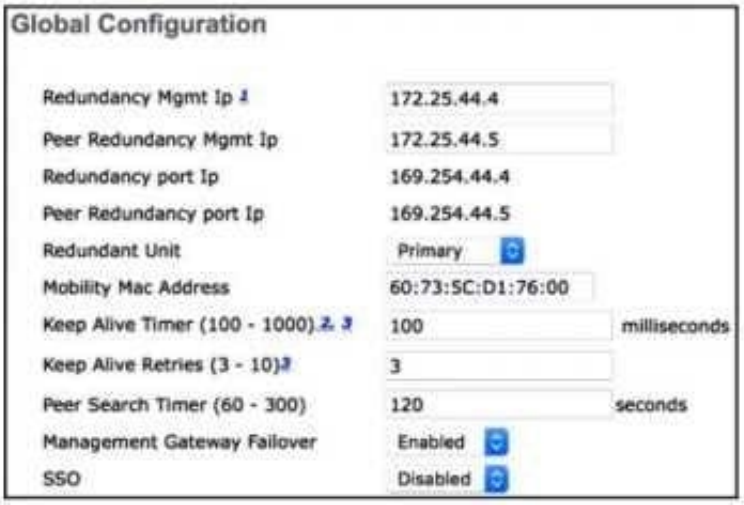
C. Enable 802.11r on each SSID on both WLCs to allow caching of the PMK.

D. Enable AP groups using the same name on both WLCs for each group.

Correct Answer: A

QUESTION 15

Refer to the exhibit.



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 low. which causes synchronization problems.

B. The connection between the redundancy ports is missing.

C. The redundancy port must be the same subnet as the redundancy mgmt.

D. The Global Configuration of SSO is set to Disabled on the controller.

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-7/High_Availability_DG.html

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