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Designing Cisco Enterprise Wireless Networks (ENWLSD)

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QUESTION 1

A customer has noticed that Client Band Select is enabled and no clients are utilizing the 5 GHz band. Which three parameters must be met to ensure that wireless clients use the 5 GHz band? (Choose three.)

A. Ensure that channel bonding is enabled on the WLAN.

B. Ensure that the co-channel interference has not exceeded-85 dBm.

C. Ensure that the UNII-2 extended channels are enabled on the 802.11a radios.

D. Ensure that the client is receiving RSSI above the minimum band select RSSI threshold.

E. Ensure that the client is dual-band capable.

F. Ensure that the WLAN has 802.11a enabled.

Correct Answer: DEF

Reference:

For 802.11a, countries are moving to open the frequency range 5.250–5.350 GHz (UNII-2)

The 5 GHz band in which 802.11a operates is divided into several different sections.

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch3_WLAN.pdf

QUESTION 2

A wireless network consists of: two IOS XE controllers installed in a data center 9100 series APs corporate and a guest WLAN

The customer must high availability pair two Cisco WLCs for the client SSO. Which two design approaches must the engineer take to meet the requirement? (Choose two.)

A. The controllers must have the same number of licenses.

B. Both WLCs must have the same redundancy management IP address.

C. Both WLCs must have the same service port IP address.

D. Each WLC must have a unique redundancy management IP address.

E. The controllers must run the same operating system version.

Correct Answer: BE

QUESTION 3

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

Correct Answer: D

QUESTION 4

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.

Correct Answer: B

QUESTION 5

An engineer must configure the virtual IP address on multiple controllers in a mobility group. Which rule must the engineer follows 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.

Correct Answer: D

Reference:

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

QUESTION 6

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

Correct Answer: B

Reference:

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

QUESTION 7

An engineer configured the optimized client roaming on Cisco WLC with an RSSI threshold of -72dBm. Clients report frequent disconnections. What must be configured for the AP to guide the client to a better AP?

A. Enable BSS transition at the radio level and optimized roaming on the SSID.

B. Disable coverage hole detection on the SSID and enable BSS transition on the SSID.

C. Disable optimized roaming and enable 802.11v support on the SSID.

D. Enable BSS transition on the SSID and optimized roaming at the radio level.

Correct Answer: D

QUESTION 8

An engineer is setting up the WLC to support a high-density design for a lecture hall. The engineer must modify the existing high-density RF profile to obtain a smaller cell size. Also, the clients must connect to the nearest AP using the highest possible data rates. Which setting allows this design?

A. AP load balance

B. client distribution

C. power threshold

D. RX-SOP threshold

Correct Answer: C

QUESTION 9

A Cisco controller-based wireless network must support workgroup bridges. The APs configured as workgroup bridges must support wired and wireless clients. The wireless clients must connect to the spare radio. What is the maximum number of wired client connections supported on a workgroup bridge?

A. 20

B. 25

C. 30

D. 35

Correct Answer: A

QUESTION 10

Why is 802.11a connectivity reduced in an X-ray room?

A. X-rays create significant non-Wi-Fi interference on the 802.11a band.

B. X-rays impact the 802,11a UNll-2 channels that cause access points to dynamically change channels.

C. X-rays within these rooms cause multipath issues.

D. X-ray rooms exhibit increased signal attenuation.

Correct Answer: D

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

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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

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

Correct Answer: B

Reference: https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/108184-config-802-11n-wlc.html

QUESTION 13

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

Correct Answer: A

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

management/dna-center/deploy-guide/cisco-dna-center-sd-access-wl-dg.pdf

QUESTION 14

An engineer must identify the network requirements for a company that has a main office and 10 branch offices. The network must be able to support data, voice, video, and location tracking. Which two factors must be considered? (Choose two.)

A. security policy of the company for building access

B. number of wireless devices that require access

C. type of site for which the survey will be performed

D. available power sockets in the IT room

E. business type of the company

Correct Answer: BC

QUESTION 15

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

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