300-425 Q&As

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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QUESTION 1

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.

Correct Answer: B

QUESTION 2

A hospital wireless environment was designed with these characteristics: RF coverage better than -67 dBm in the 5 GHz spectrum RRM be used for DCA and TPC in the 2.4 GHz band RRM be used for DCA and TPC in the 5 GHz band

After deployment, why do many of the legacy 802.11b/g devices have difficulty maintaining connectivity?

A. Excessive co-channel interference in the 2.4 GHz band exists.

B. Excessive overlapping channels in the 2.4 GHz band exists.

C. TPC drastically increases Tx power in the 2.4 GHz band.

D. TPC drastically reduces Tx power in the 2.4 GHz band.

Correct Answer: D

QUESTION 3

A network engineer is designing a new wireless network. The network needs to have these characteristics:

- support high client concentration
- optimize client performance
- avoid interference

Which approach should be taken?

A. Deploy APs near each other for 5 GHz coverage, and disable the 2.4 GHz radios for some Aps.

B. Deploy APs near each other for 2.4 GHz coverage, and disable the 5 GHz radios for all APs.

C. Deploy APs near each other for 5 GHz coverage, and enable the 2.4 GHz radios for all Aps.

D. Deploy APs near each other for 2.4 GHz coverage, and disable the 5 GHz radios for some APs.

Correct Answer: A

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/86/b_Cisco_Wireless_LAN_Controller_Configuration_Best_Practices.html

QUESTION 4

A high-density wireless network is designed. Which Cisco WLC configuration setting must be incorporated in the design to encourage clients to use the 5 GHz spectrum?

A. Band Select

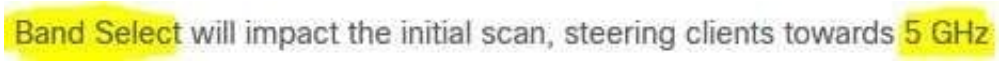
B. RRM

C. Cisco Centralized Key Management

D. load balancing

Correct Answer: A

Reference:



QUESTION 5

An engineer Is trying to determine the most cost-effective way to deploy high availability for a campus enterprise wireless network that currently leverages three wireless LAN controllers. Which architecture should the engineer deploy?

A. N+1 solution without SS0

B. N+1 with SSO

C. N+N solution without SSO

D. N+N with SSO

Correct Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/technology/hi_avail/N1_High_Availability_Deployment_Guide/N1_HA_Overview.html?

QUESTION 6

An engineer must optimize client roaming after noticing that clients in the environment are not roaming as expected. Upon reviewing an over-the-air packet capture, the engineer sees that the AP is sending a BSS Transition Management query to the client, which causes it to roam. The disassociation imminent feature is not enabled on the WLAN. What is the cause of the issue?

A. Low RSSI check is enabled.

B. Fast Transition is disabled.

C. Band Select is enabled.

D. Optimized roaming is enabled.

Correct Answer: B

QUESTION 7

A wireless engineer is getting ready to perform a predictive site survey. The new network needs to support data and voice over wireless. Which two Cisco recommendations should be considered for the design? (Choose two.)

A. Set -19 dBm of separation between APs on the same channel.

B. Use the 5 GHz radio band due to 40 MHz bandwidth capability.

C. Use the 5 GHz radio band due to the 24 non-overlapping channels.

D. Set the cell boundary to -67 dBm.

E. Set the cell overlap to 15%

Correct Answer: CD

QUESTION 8

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.

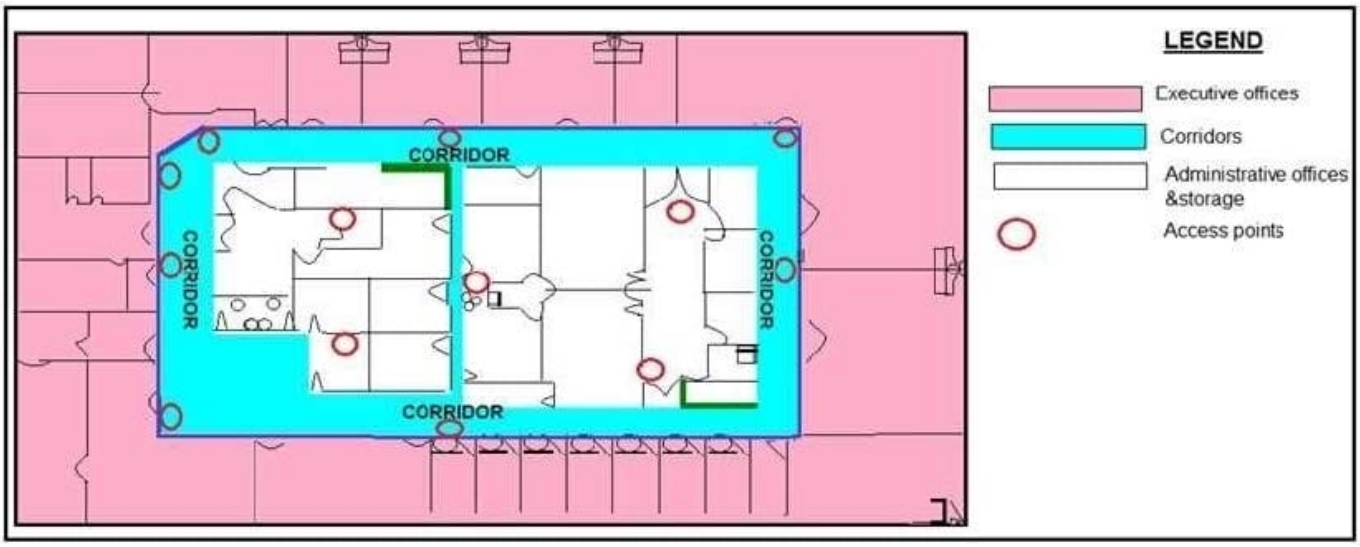
C. Enable 802.11r on each SSID on both WLCs to allow caching of the PMK.

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

Correct Answer: A

QUESTION 9

Refer to the exhibit.



What is the main reason why the Wi-Fi design engineer took a different approach than installing the APs in the offices, even though that installation provides better coverage?

A. aesthetics

B. transmit power considerations

C. antenna gain

D. power supply considerations

Correct Answer: A

Reference: https://www.cisco.com/en/US/docs/solutions/Enterprise/Mobility/emob30dg/RFDesign.html#wp10 00551

QUESTION 10

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

Correct Answer: BC

QUESTION 11

An engineer must deploy a wireless network in an open-plan environment that has three SSIDs using the 5 GHz band and the channel width is set to 40 MHz. Co-channel interference must be reduced. Which two actions must be taken? (Choose two.)

A. Increase the number of SSIDs.

B. Increase channel bonding in the 2.4 GHz band to 40 MHz.

C. Disable band steering.

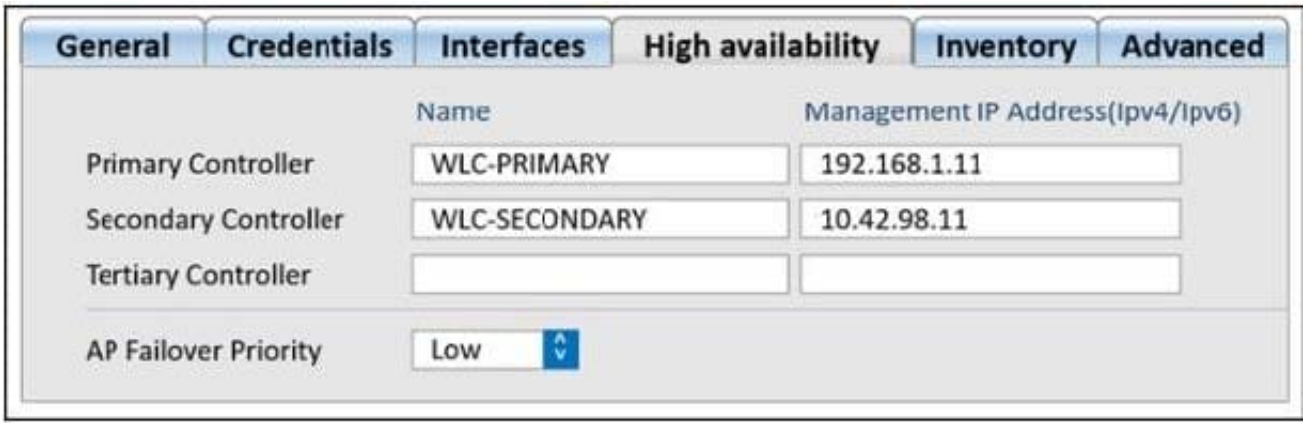
D. Decrease channel bonding in the 5 GHz band to 20 MHz.

E. Reduce the power of the AP.

Correct Answer: DE

QUESTION 12

Refer to the exhibit.



A network engineer has identified that during a recent controller failure, several APs failed over to the tertiary controller instead of the secondary controller. The configuration from one of the APs is provided. Which design consideration led to the issue?

A. The secondary controller was at capacity.

B. The secondary controller is an SSO configuration.

C. The tertiary controller is an HA-SKU controller, so it took priority.

D. The tertiary controller is in the same subnet as the primary controller.

Correct Answer: C

QUESTION 13

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

Correct Answer: D

Reference: https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-survey-guidelines-wlan-00.html