Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)

https://www.2passeasy.com/dumps/300-425/

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 selects?

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
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
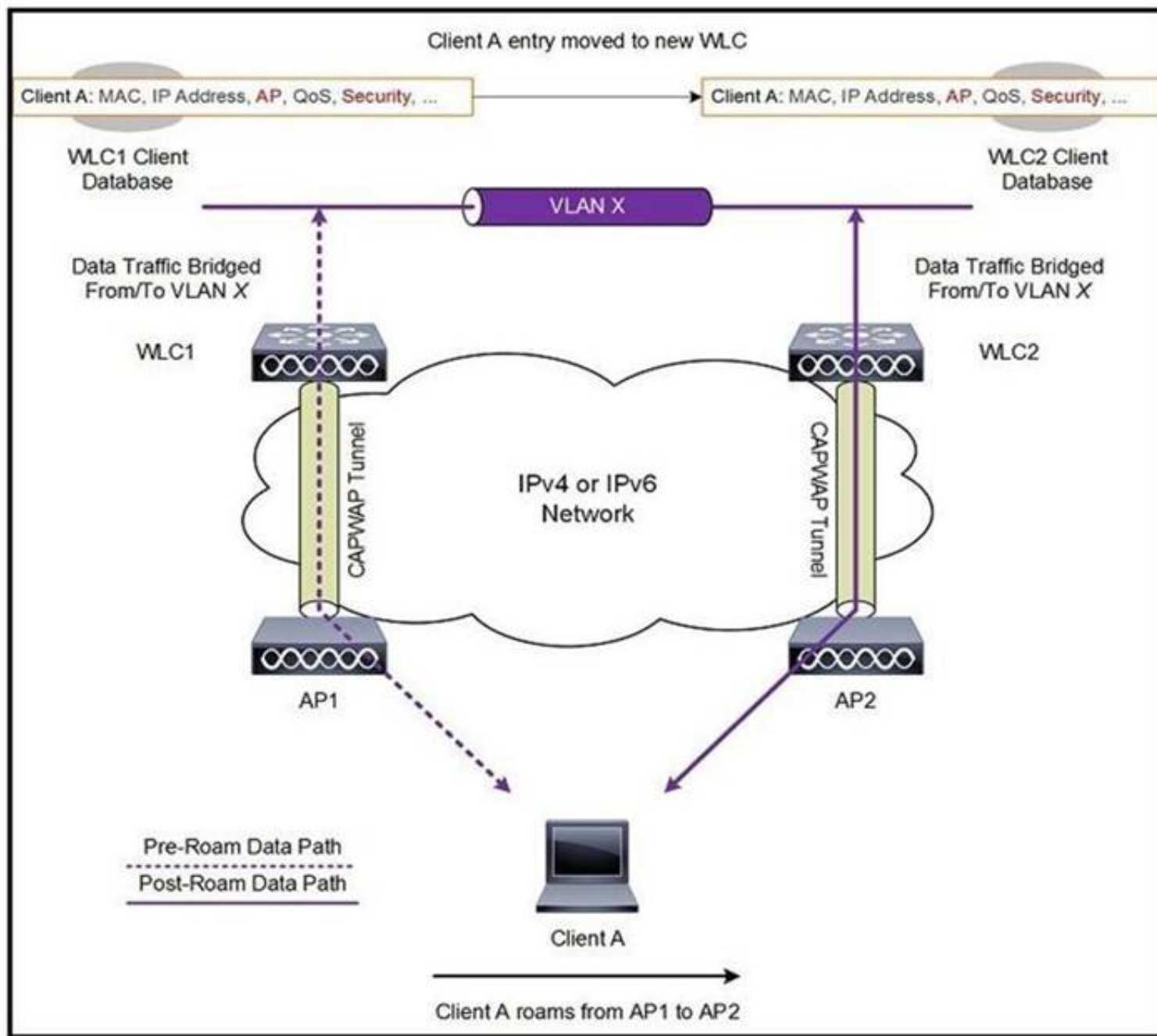
NEW QUESTION 3
An engineer has designed an anchor redundancy for guest clients connecting to SSID with auto-anchor configured. After adding a second Anchor WLC under the SSID mobility anchor list, clients are load-balanced between existing and new anchors instead of having one anchor as active and the other one as standby. Which feature should be included in the design that will be configured on the WLC running 8.1 or above to ensure anchor redundancy?

A. Auto-Anchor Foreign Mapping
B. AP groups
C. Guest Anchor Priority
D. 802.11r

Answer: C

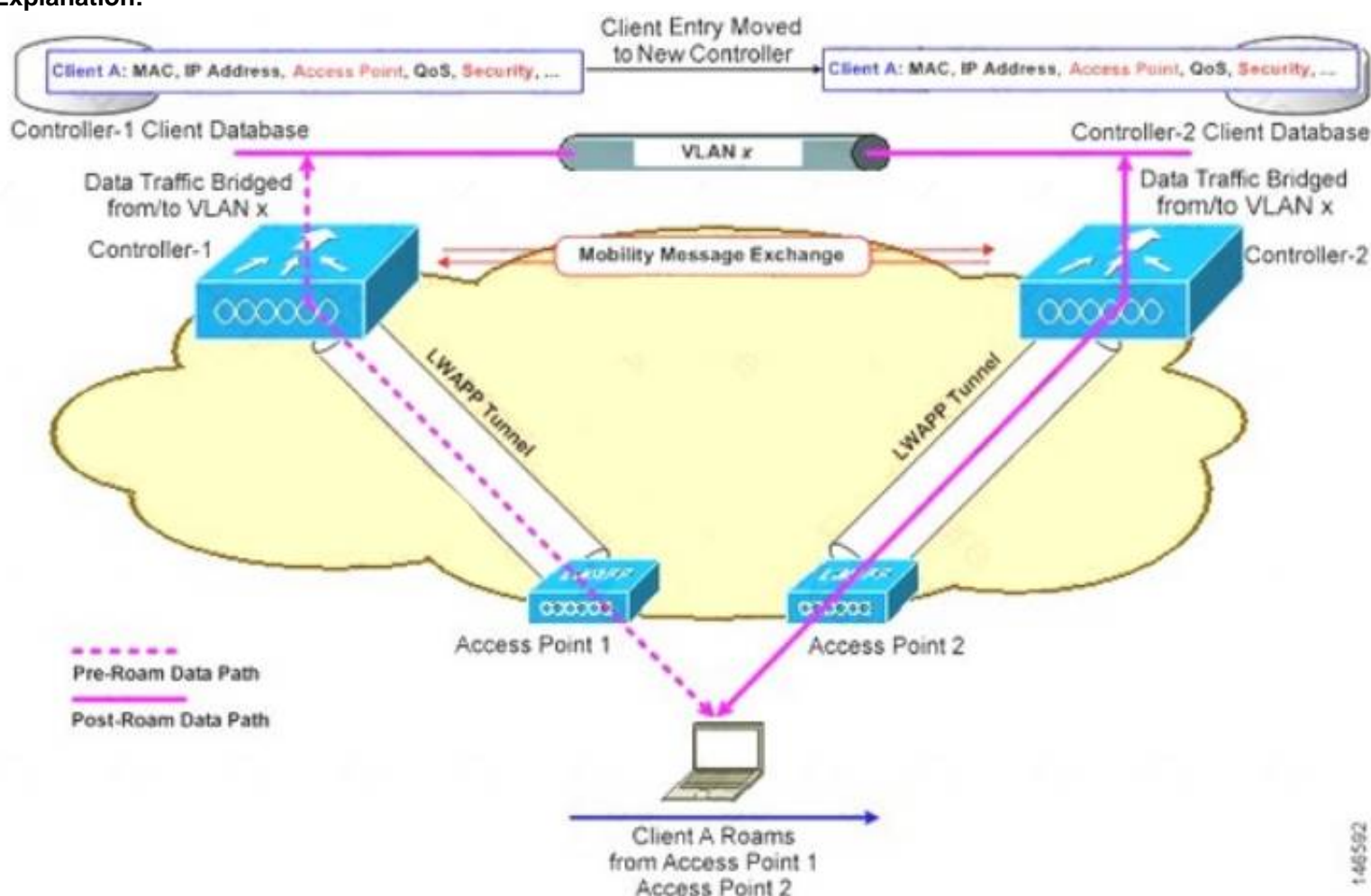**NEW QUESTION 4**
Refer to the exhibit.

A client roams between two APs that are registered to two different controllers, where each controller has an interface in the client subnet. Both controllers are running AireOS. Which scenario explains the client roaming behavior?

A. Controllers exchange mobility control messages (over UDP port 16666) and the client database entry is moved from the original controller to the new controller.
B. Controllers do not exchange mobility control messages (over UDP port 16666) andthe client database, entry is not moved from the original controller to the new controller.
C. Controllers exchange mobility control messages (over UDP port 16666) and a new client session is started with the new controller.
D. Controllers exchange mobility control messages (over UDP port 16666) and the client database entry is tunneled from the original controller to the new controller.

Answer: A

Explanation:

In this instance controllers exchange mobility control messages (over UDP port 16666) and the client database entry is **moved** from the original controller to the new controller.

NEW QUESTION 5

A university is in the process of designing a wireless network in an auditorium that seats 500 students and supports student laptops. Which design methodology should the university implement in the auditorium?

A. roaming design model
B. voice design model
C. location design model
D. high-density design model

Answer: B

Explanation:

https://www.cisco.com/c/dam/en_us/solutions/industries/docs/education/cisco_wlan_design_guide.pdf

NEW QUESTION 6

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 7

What causes the most signal attenuation, based on the wireless design tools?

A. cinder block wall
B. metal door
C. glass wall
D. office window

Answer: B

Explanation:

It is important to note that metal chair legs and desk components will interact with the antenna of the AP and change the pattern of the radiation. Surveying the results of placement decisions with a good tool is necessary

NEW QUESTION 8

An engineer must create data link redundancy for the company's Cisco Wireless LAN controller. The engineer has decided to configure LAG-based redundancy instead of port-based redundancy. Which three features of LAG-based redundancy influenced this decision? (Choose three.)

A. Packets are always sent out on the same port they are received on.
B. All interface traffic passes as long as one port is up.
C. The same port has multiple untagged dynamic interfaces.
D. Interface connection to two separate nonstacked switches is available.
E. Full bandwidth of all links is available.
F. Ports are grouped into multiple LAGs.

Answer: ABF

Explanation:
https://community.cisco.com/t5/wireless-mobility-documents/lag-link-aggregation/ta-p/3128669

NEW QUESTION 9
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
nameCopr-NET390595865WLC-1 and Copr-NET6837I638WLC-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?
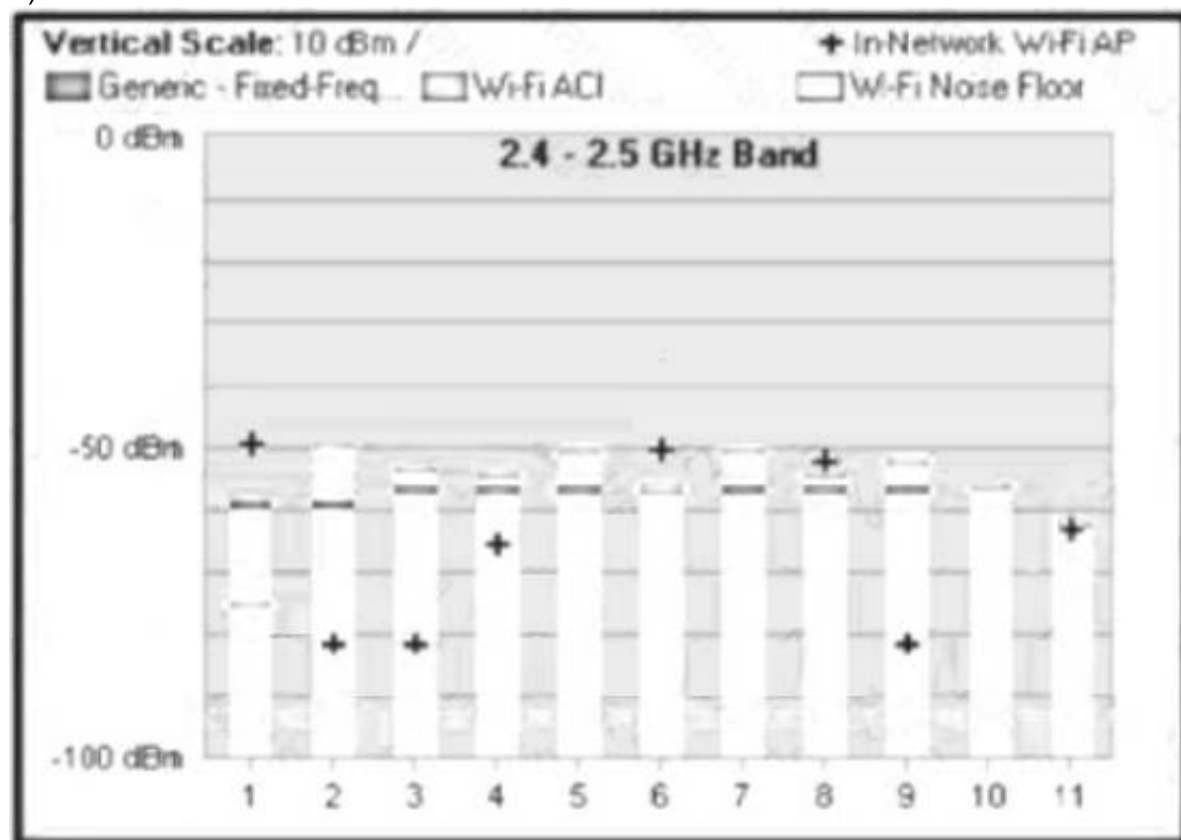
A. Move all access points to one controller and use the other as N+1 HA.
B. Use the same WLAN name for the corporate network on both controllers.
C. Use the same WLAN name for the corporate network on both controllers.
D. Place the access points per floor on the same controller.
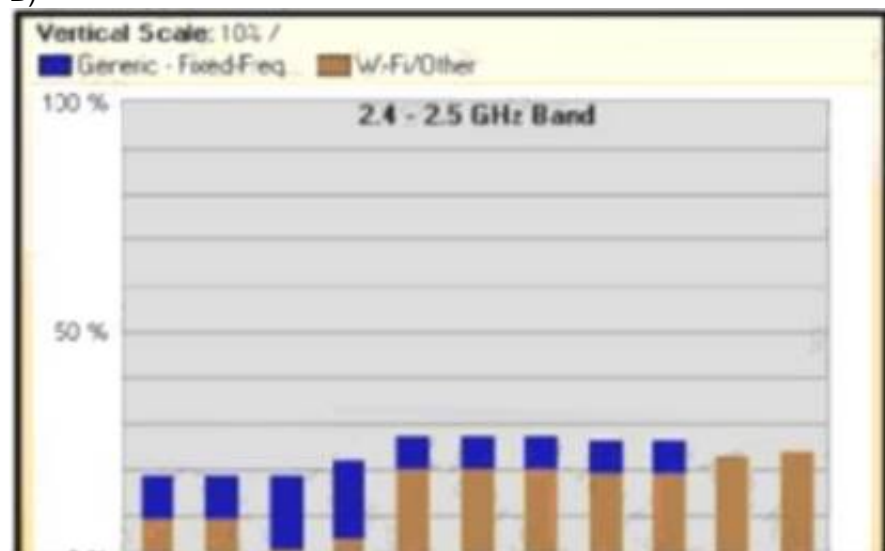
Answer: A

NEW QUESTION 10
An engineer as performing a Layer 1 passive wireless site survey utilizing a channel analyzer software in the 2.4 GHz spectrum. Which chart indicates the ratio of interference present during the duration of the capture?
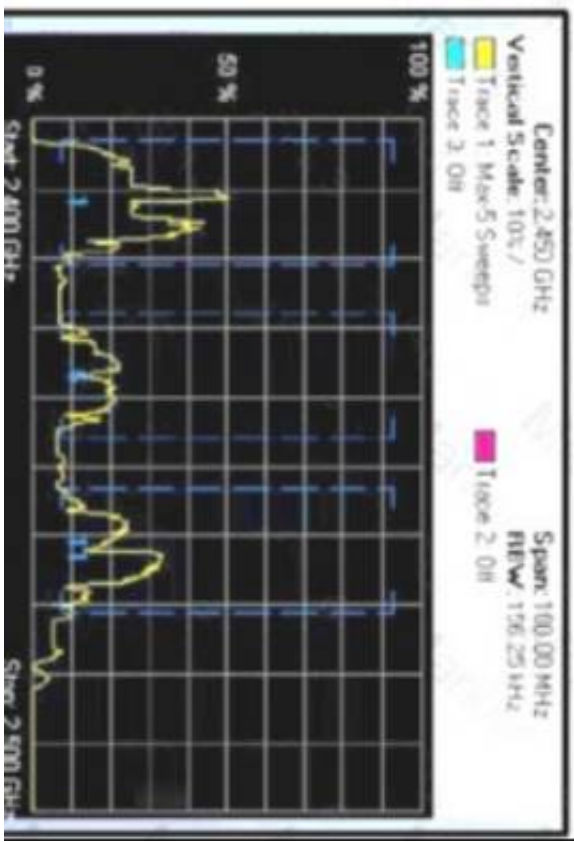A)

B)

C)

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

NEW QUESTION 10
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 13
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 15
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 20
An engineer must create data-link redundancy for the company's Cisco Wireless LAN Controller. The engineer has decided to configure LAG-based redundancy instead of port-based redundancy. Which three features of LAG-based redundancy influenced this decision? (Choose three.)

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B. All interface traffic passes as long as one port is up.
C. The same port has multiple untagged dynamics interfaces.
D. Interface connection to two separate nonstacked switches is available.
E. Full bandwidth of all links is available.
F. Ports are grouped into multiple LAGs.

Answer: ABF

Explanation:
https://community.cisco.com/t5/wireless-mobility-documents/lag-link-aggregation/ta-p/3128669

NEW QUESTION 24
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 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 28
A wireless engineer must optimize RF performance for multiple buildings with multiple types of construction and user density. Which two actions must be taken? (Choose two.)

A. Configure Flexconnect groups for each building.
B. Configure WMM profiles for each building.
C. Configure AP groups for each area type.
D. Configure RF profiles for each area type.
E. Enable DTPC on the network.

Answer: CD

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-10/config-guide/b_cg810/configuring_ap_groups.ht

NEW QUESTION 29
A wireless deployment in a high-density environment is being used by vendors to process credit card payment transactions via handheld mobile scanners. The scanners are having problems roaming between access points in the environment. Which feature on the wireless controller should have been incorporated in the design?

A. RX SOP
B. 802.11w
C. AP Heartbeat Timeout
D. Application Visibility Control

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/configguide/b_cg85/advanced_wireless_tuning.ht

NEW QUESTION 31
A wireless engineer is using Ekahau site survey to validate that an existing wireless network is operating as expected, which type of survey should be using to identify the end-to-end network performance?

A. GPS assisted
B. Spectrum analysis
C. Passive
D. Active ping

Answer: B

Explanation:
https://support.ekahau.com/hc/en-us/articles/115004973067-Spectrum-Analysis-Surveys

NEW QUESTION 33
An enterprise has moved most services to the cloud, including email applications and real-time communication. Which feature must be enabled on the wireless network to improve the user experience?

A. QoS
B. Radio management
C. Interference mitigation
D. Fast secure roaming

Answer: D

Explanation:
https://community.cisco.com/t5/wireless-mobility-documents/what-is-cckm-and-how-does-it-affect-fast-an

NEW QUESTION 34
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 36
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 38
Which statement about AP failover priority for access points when configured with priority 1 or 4 is true?

A. When configured with priority 1, the access point is assigned with the highest priority level and it is marked as critica
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 critica
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 lo
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 mediu
H. This access point fails over after other access points with the higher priority when there is primary controller failure.

Answer: B

Explanation:

N+1 Redundancy
AP Failover Priority

- Assign priorities to APs: Critical, High, Medium, Low

- Critical priority APs get precedence over all other APs when joining a controller

- In a failover situation, a higher priority AP will be allowed to join ahead of all other APs

NEW QUESTION 41
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 45
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 47
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 52
A company wants to replace its existing PBX system with a new VoIP System that will include wireless IP phones. The CIO has concerns about whether the company's existing wireless network can support the new system. Which tool in Cisco Prime can help ensure that the current network will support the new phone system?

A. Location Readiness
B. Site Calibration
C. Map Editor
D. Voice Readiness

Answer: D

Explanation:

The VoWLAN Readiness (voice readiness) tool allows you to check the RF coverage to determine if it is sufficient for your voice needs.

NEW QUESTION 53
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.

Answer: A

NEW QUESTION 56
An engineer is performing a predictive wireless design for a medical treatment environment, which requires data and voice services. What is the minimum requirement for the design?

A. overlapping -72 dBm coverage from two access points
B. continuous -67 dBm coverage from one access point
C. continuous -72 dBm coverage from one access point
D. overlapping -67 dBm coverage from two access points

Answer: B

Explanation:

☑ The TX power of 17 dBi is 50mW. What you see on your laptop of a -20 dBm is a good signal. Cisco's recomendation for data is a max of -72 dBm and for voice it is -65dBm. You will notice this when you start walking away from your AP. So if you are planning on adding another ap, you would want your coverage to be bordering eithe -72 dBm or -65 dBm.

So -67dBm covers both Data & Voice with a single AP

NEW QUESTION 57
A customer is concerned about mesh backhaul link security. Which level of encryption does the backhaul link use?

A. hash
B. AES
C. WEP
D. 3DES

Answer: B

Explanation:

In a Cisco wireless backhaul network, traffic can be bridged between MAPs and RAPs. This traffic can be from wired devices that are being bridged by the wireless mesh or CAPWAP traffic from the mesh access points. This traffic is always AES encrypted when it crosses a wireless mesh link such as a wireless backhaul.

NEW QUESTION 61
An engineer is designing a wireless network that will support many different types of wireless clients. When conducting the survey, which client must be used to ensure a consistent experience for all of the wireless clients?

A. the client that has the highest RF properties
B. the client that is used most by the company
C. the client that is used least by the company
D. the client with the worst RF characteristics

Answer: B

Explanation:

With the proliferation of clients with varying wireless capabilities, it is important to survey for the 'worst' clients in order to ensure a consistent experience across all your clients once your wireless network is in production.

https://documentation.meraki.com/MR/WiFi_Basics_and_Best_Practices/Conducting_Site_Surveys_with_MR_

NEW QUESTION 64
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 66
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 68
An engineer performs a Layer 1 survey by using Metegeek chanalyzer only on the current operating channel. Which operating mode is configured for a Cisco CleanAIR AP?

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

Answer: A

Explanation:

Local Mode

Each Cisco CleanAir-enabled access point radio provides air quality and interference detection reports for the current operating channel only. Local mode does not disrupt client connections. When a hybrid-REAP access point is connected to the controller, its Cisco CleanAir functionality is identical to local mode.

NEW QUESTION 71
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

Answer: B

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/technology/hi_avail/N1_High_Availability_Deployment_G

NEW QUESTION 72
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 74
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