Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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

NEW QUESTION 1
A customer asks an engineer to explain the concept of mobility domains and mobility groups. Which statement does the engineer respond with?

A. A mobility group does not constrain the distribution of security context of a client and also does not constrain AP fail-over between controllers when the WLC are in the same mobility domain.
B. If WLCs are in the same mobility domain, they communicate with each other but, if an anchor WLC ispresent it must be in the same mobility domain for communication to be possible.
C. If WLCs are in the same mobility domain, they communicate with each othe
D. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.
E. WLCs do not need to be in the same mobility domain to communicate with each othe
F. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.

Answer: C

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-0/configuration-guide/b_cg80/b_cg80_chapter_010

NEW QUESTION 2
A rapidly expanding company has tasked their network engineer with wirelessly connecting a new cubicle area with Cisco workgroup bridges until the wired network is complete. Each of 42 new users has a computer and VoIP phone. How many APs for workgroup bridging must be ordered to keep cost at a minimum while connecting all devices?

A. 4
B. 5
C. 6
D. 7

Answer: A

Explanation:
• Number of 802.11b devices per AP: Cisco recommends that you have no more than 15 to 25

So, each AP will have 25 clients. Minimum 4 APs are sufficient.

NEW QUESTION 3
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 4**
Refer to the exhibit.
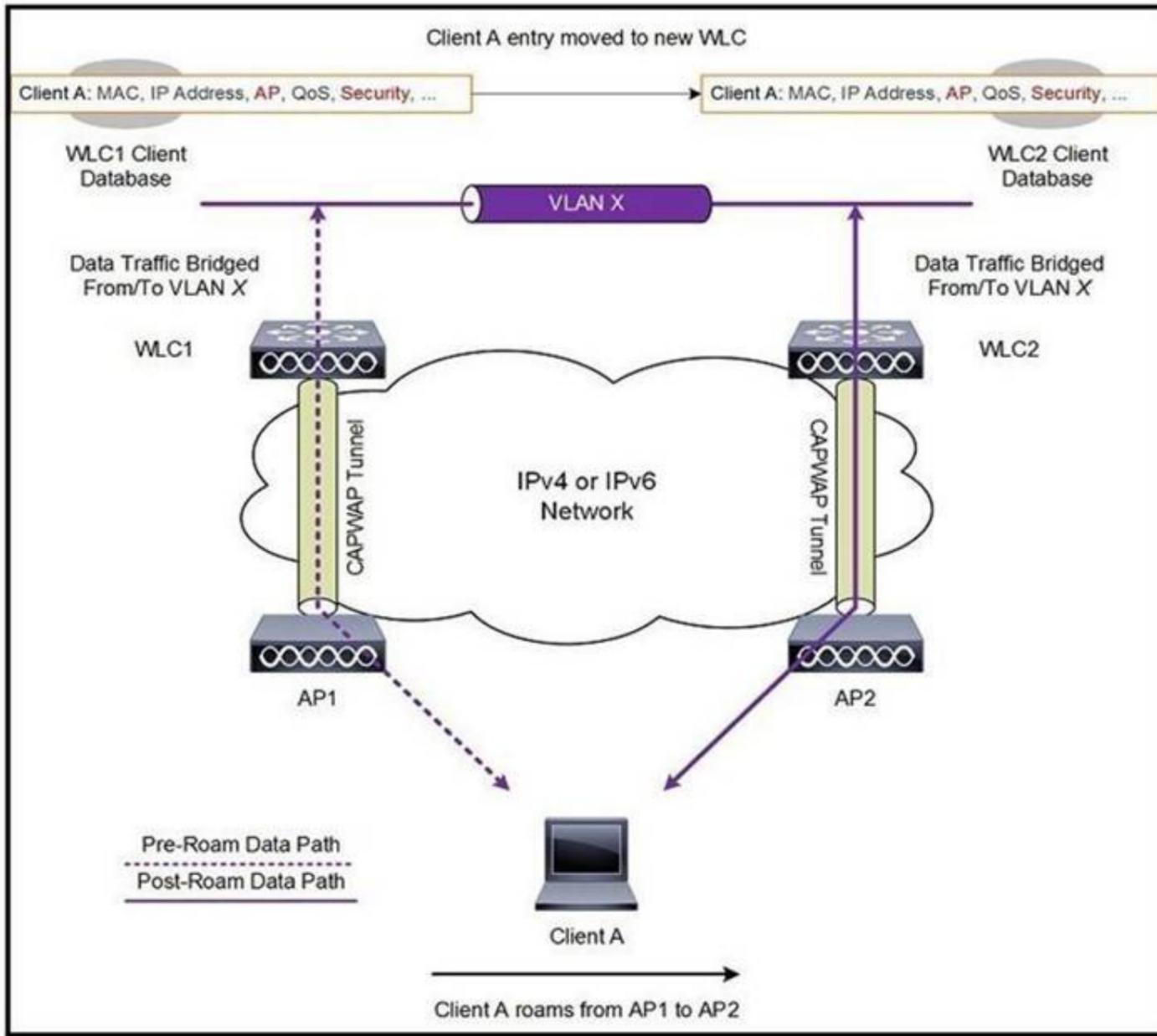
A client roams between two APs that are registered to two different controllers, where each controller has an interface in the client subnet. Both controllers are running AireOS. Which scenario explains the client roaming behavior?

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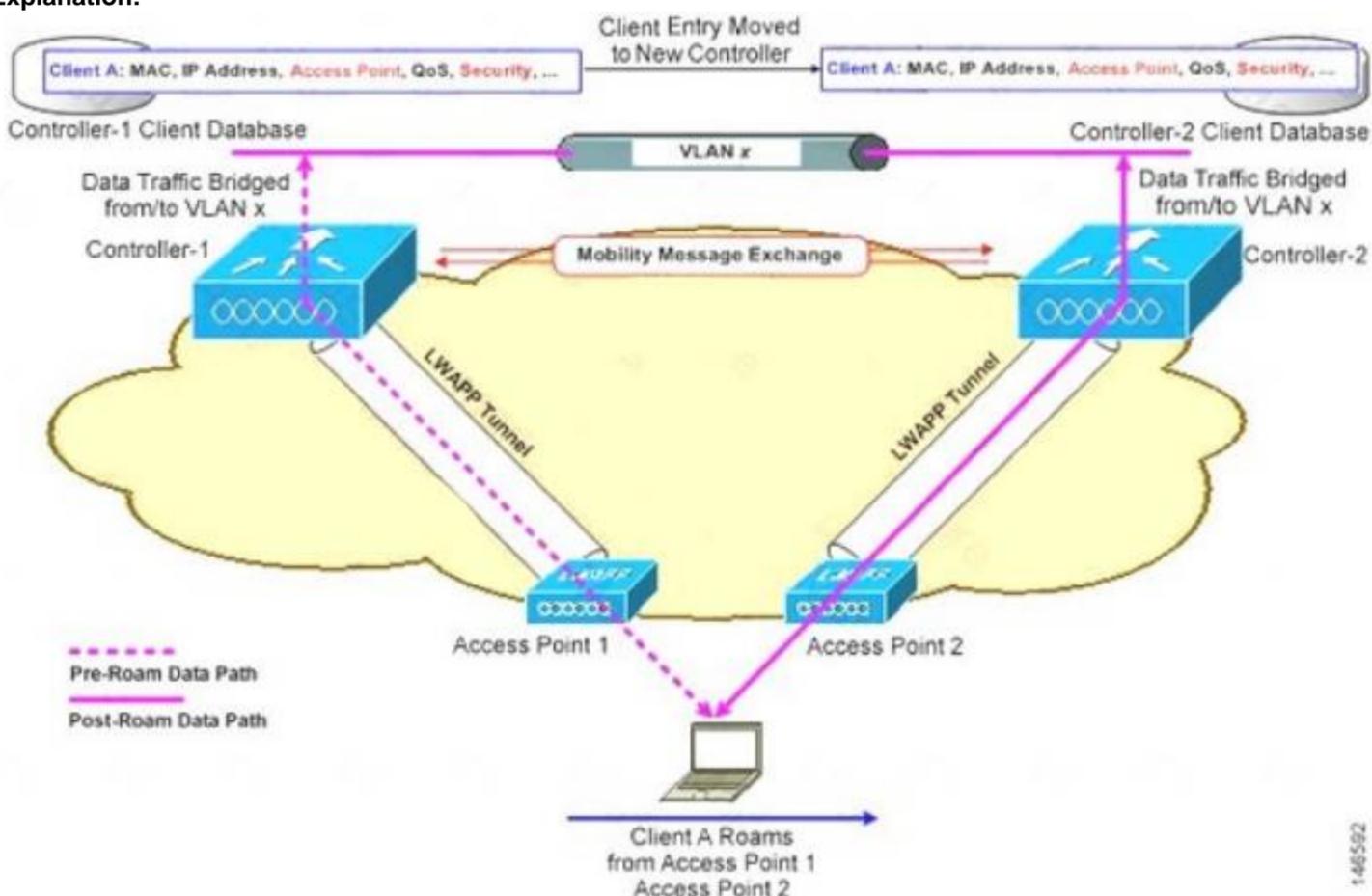
In this instance controllers exchange mobility control messages (over UDP port 16666) and the client database entry is moved from the original controller to the new controller.

NEW QUESTION 5
Multiple WLCs are implemented in a high-availability configuration in a mobility group. APs are deployed with only a primary controller assigned. By default, which mobility group member controller do the orphaned APs join in the event of a failed controller?

A. controller with the most available AP free license capacity
B. controller with the lowest percent of associated APs per license capacity
C. controller with the least CPU utilization over the last reporting period
D. controller with the least number of associated APs

Answer: D

Explanation:
https://mrncciew.com/2013/04/07/ap-failover/

NEW QUESTION 6
How does AP failover priority for access points function when configured with priority 1 or 4?

A. When configured with priority 1, the access point is assigned with the highest priority level and itis 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

NEW QUESTION 7
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 8
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 9
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 10
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 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 10
Refer to the exhibit.
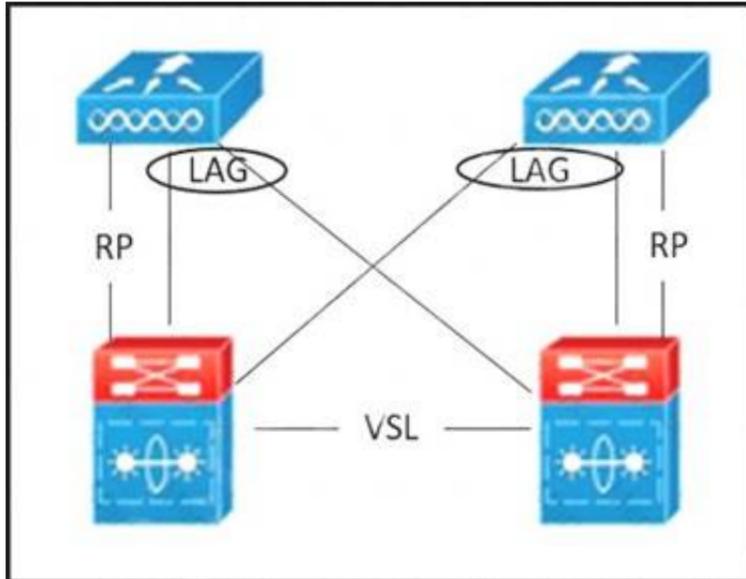
A WLC SSO pair is set up. Which failure scenario causes a split-brain scenario?

A. RP is down.
B. Two distribution ports on the active WLC are down.
C. VSL is down.
D. One distribution port on the active WLC is down.

Answer: C

NEW QUESTION 13
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 17

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 18
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 23
A network administrator of a global organization is collapsing all controllers to a single cluster located in central Europe. Which concern must addressed?

A. Some channels may not be available consistently across the organization.
B. Different RF policies per office are not available in this configuration.
C. Syslog must be configured to the time-zone of the NMS platform.
D. Centralized controllers cannot uniformly authenticate global users.

Answer: C

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

NEW QUESTION 27
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 29
A customer celled with a requirement that internal clients must be on different subnets depending on the building they are in, AH 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 an SSID, place it to the desired VLAN under WLANs, and configure 802 lx in ISE to assign the correct VLAN based on the SSID from which the client is authenticating.
B. Create FlexConnecl groups, place the access points i
C. and sat the correct VLAN to SSID mapping based on location.
D. Create AP groups for each desired location, map the correct VLANs to the internal SSID, and add the access points for that location.
E. Create mobility anchors for the SSID, and on the controller under the internal SSI
F. create a foreign map to the desired VLAN based on location.

Answer: C

NEW QUESTION 33
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 38
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 39
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 41
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 46
A wireless engineer is utilizing the voice readiness tool in Cisco Prime for a customer that wants to deploy Cisco IP phones. Which dBm range is the network inspected against?

A. -78 to -65 dBm
B. -72 to -67 dBm
C. -85 to -65 dBm
D. -85 to -67 dBm

Answer: D

Explanation:

Default voice minimum RSSI is -75 dBm. but cisco reccomend to get RSSI better than -67 dBm.

https://www.cisco.com/c/en/us/td/docs/net_mgmt/prime/infrastructure/34/user/guide/bk_CiscoPrimeInfrastructu minimum is -90 and maximum is -67 for IP phone

NEW QUESTION 48
Which two criteria must be considered when conducting an outdoor bridge site survey? (Choose two.)

A. near-far effect
B. weather
C. traffic lights
D. power lines

E. Fresnel zone

Answer: AD

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

NEW QUESTION 51
Which non-Wi-Fi interferer can be identified by Metageek Chanalyzer?

A. PDAs
B. jammers
C. smartphones
D. printers

Answer: B

Explanation:
https://www.metageek.com/training/resources/wifi-and-non-wifi-interference

A jamming transmitter creates constant noise across each frequency. These are used in a denial-of-service attack, and

will prevent other wireless technologies from fully operating.

NEW QUESTION 53
An engineer changed the TPC Power Threshold for a wireless deployment from the default value to -65 dBm. The engineer conducts a new post-deployment Survey to validate the results. What is the expected outcome?

A. Increase cell size
B. Decreased client signal strength
C. Increased received sensitivity
D. Decreased channel overlap

Answer: A

NEW QUESTION 54
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 59
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 63
Drag and drop the characteristics from the left onto the correct functionalities on the right.

| Multiple AP-Manager Interfaces |
| |
| |

| complex configuration on the Cisco WLC and infrastructure |

| achieves optimal AP join process with src-dst-ip load-balancing |

| simple configuration on the Cisco WLC and infrastructure |

| LAG |
| |
| |

| avoids single point of failure on neighbor switches |
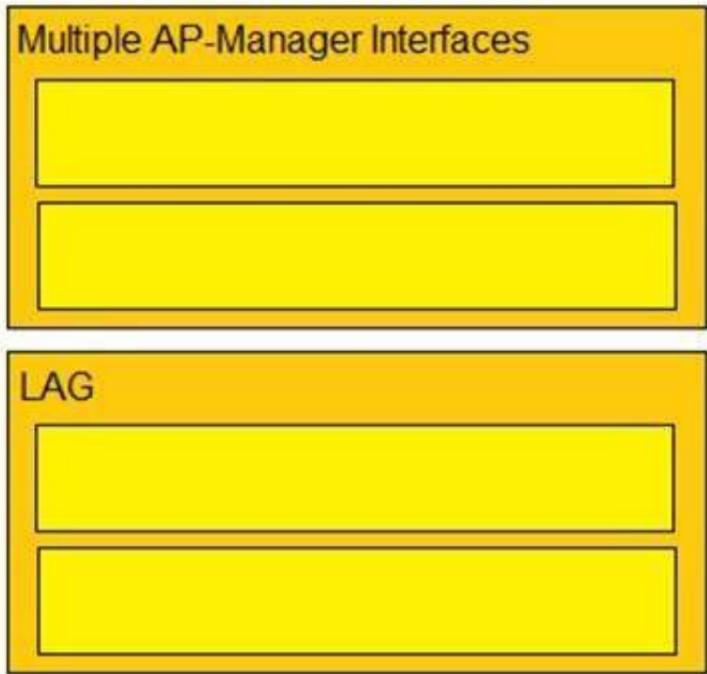
A. Mastered
B. Not Mastered

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-4/configuration/guides/consolidated/b_cg74_CONS

NEW QUESTION 67
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