

## 300-425 Dumps

# Designing Cisco Enterprise Wireless Networks (ENWLSD)

<https://www.certleader.com/300-425-dumps.html>



### NEW QUESTION 1

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 2

An engineer is designing a wireless deployment for a university auditorium. Which two features can be used to help deal with the issues introduced by high AP count? (Choose two.)

- A. TSPEC
- B. RXSOP
- C. TPC
- D. LSS
- E. DFS

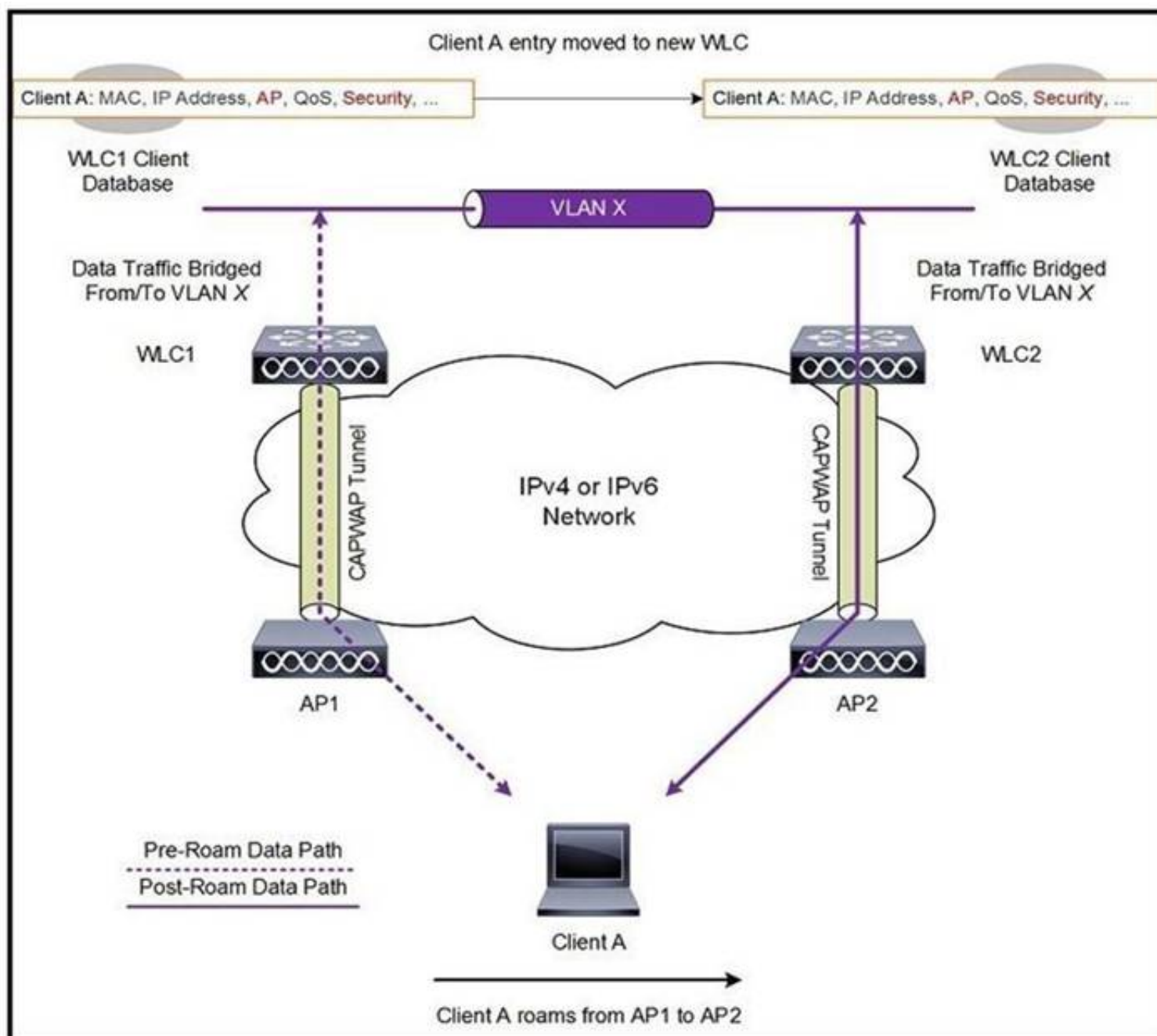
**Answer: CE**

#### Explanation:

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/80211/200069-Overview-on-802-11h-Transmit-P>

### NEW QUESTION 3

Refer to the exhibit.



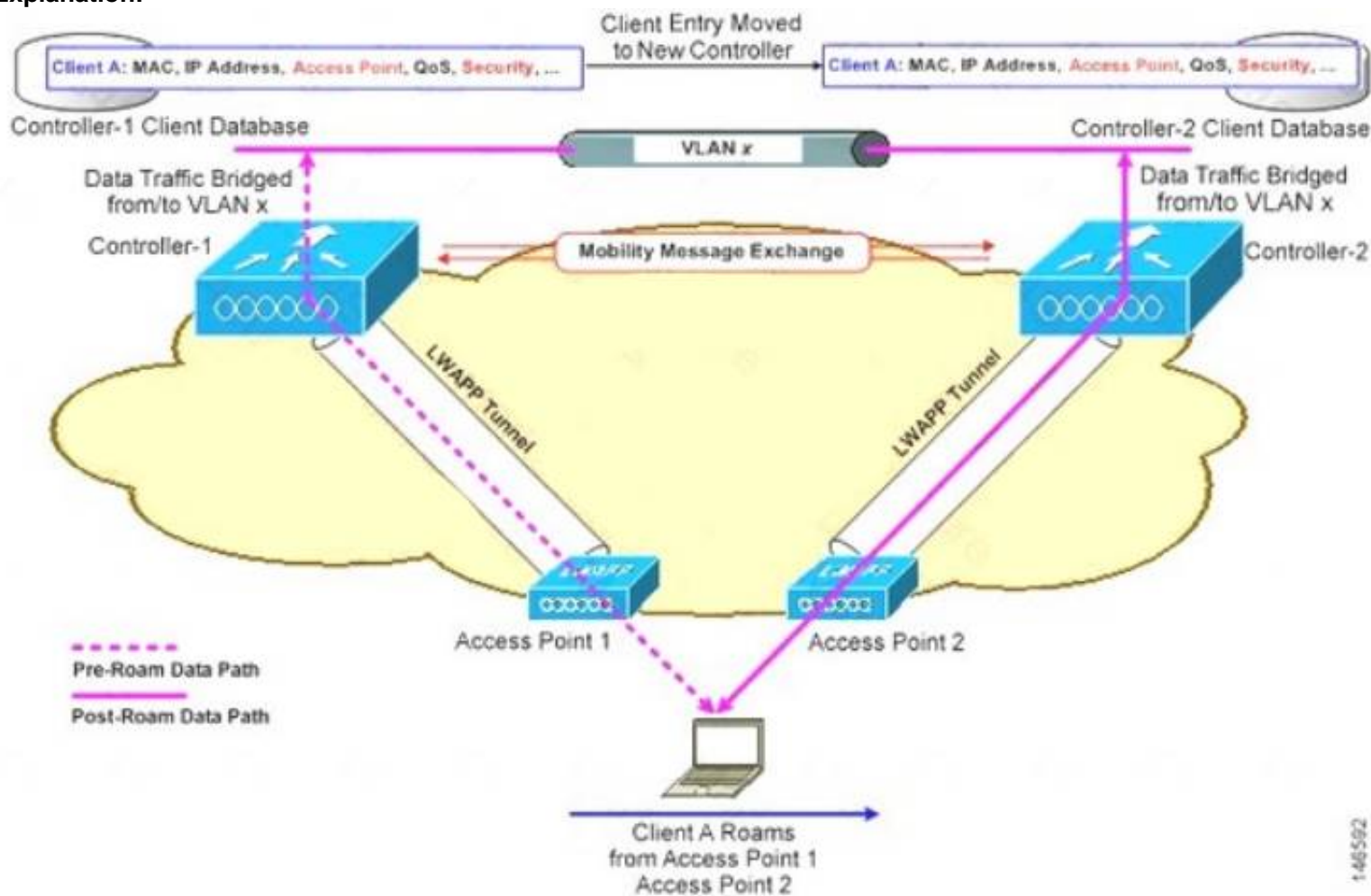
A client roams between two APs that are registered to two different controllers, where each controller has an interface in the client subnet. Both controllers are running AireOS. Which scenario explains the client roaming behavior?

- 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) and the 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 4

An engineer has successfully configured high availability and SSO using two Cisco 5508 Wireless LAN Controllers. The engineer can access the Active Primary WLC, but the Secondary Standby WLC is not accessible. Which two methods allow access to the standby unit? (Choose two.)

- A. via the console connection
- B. SSH to the redundancy management interface of the primary WLC
- C. SSH to the service port interface
- D. SSH to the virtual interface of the secondary WLC
- E. SSH to the management interface of the primary WLC

**Answer: AC**

**Explanation:**

Once SSO is enabled, the Standby WLC can be accessed via console connection or via SSH on the service port and on the redundant management interface.

#### NEW QUESTION 5

An engineer is designing a network deployment for a college with six buildings. Each building must have a WLC located in the IDF to support the APs. The wireless clients should be able to roam between the APs and the controllers. Which type of wireless architecture should be used?

- A. Distributed
- B. Centralized
- C. Cloud
- D. Autonomous

**Answer: B**

**Explanation:**

Cloud-based architecture has controllers in the cloud, not on premises. Autonomous architecture means each AP is autonomous and is not managed by a WLC, distributed architecture is another term for autonomous architecture, so the same applies. Centralized architecture, a.k.a. split-MAC architecture is when all APs are managed centrally by WLCs, they do not need to be co-located. Understanding Cisco Wireless Architectures - CCNA Wireless 200-355 Official Cert Guide (2016) (apprize.best)

[https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch2\\_A](https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch2_A)

#### NEW QUESTION 6

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 7

A company has 10 access point licenses available on their backup Cisco WLC and their primary Cisco WLC is at full capacity, 5 access points are set to high failover priority and 7 access points are set to critical failover priority. During a failure, not all critical access points failed over to the backup Cisco WLC. Which configuration is the cause of this issue?

- A. The high priority access point is oversubscribed.
- B. network ap-priority is set to enable.
- C. The critical priority access point count is oversubscribed.
- D. network ap-priority is set to disable.

**Answer:** D

**Explanation:**

<https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2016/pdf/BRKCOL-2275.pdf>

#### NEW QUESTION 8

What is the attenuation value of a human body on a wireless signal?

- A. 3 dB
- B. 4 dB
- C. 6 dB
- D. 12 dB

**Answer:** A

**Explanation:**

Signal AttenuationSignal attenuation or signal loss occurs even as the signal passes through air. The loss of signal strength is more pronounced as the signal passes through different objects. A transmit power of 20 mW is equivalent to 13 dBm. Therefore, if the transmitted power at the entry point of a plasterboard wall is at 13 dBm, the signal strength is reduced to 10 dBm when exiting that wall. This table shows the likely loss in signal strength caused by various types of objects.

Signal Attenuation Caused By Various Types of Objects Object in Signal Path

Signal Attenuation through Object

Plasterboard wall 3 dB

Glass wall with metal frame 6 dB

Cinder block wall 4 dB

Office window 3 dB

Metal door 6 dB

Metal door in brick wall 12 dB

Human body 3 dB

Each site surveyed has different levels of multipath distortion, signal losses, and signal noise. Hospitals are typically the most challenging environment to survey due to high multipath distortion, signal losses and signal noise. Hospitals take longer to survey, require a denser population of access points, and require higher performance standards. Manufacturing and shop floors are the next hardest to survey. These sites generally have metal siding and many metal objects on the floor, which result in reflected signals that recreate multipath distortion. Office buildings and hospitality sites generally have high signal attenuation but a lesser degree of multipath distortion.

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/71642-vocera-deploy-guid>

#### NEW QUESTION 9

An enterprise is using the wireless network as the main network connection for corporate users and guests. To wireless network availability. Two Standalone controllers are installed in the head office. APs are connected to the controllers using a round-robin approach to load balance the traffic. After a power cut, the wireless clients disconnect while roaming. An engineer tried eping from the controller but fails. Which protocol needs to be allowed between the networks that the controllers are installed?

- A. IP Protocol 67
- B. IP Protocol 77
- C. IP Protocol 87
- D. IP Protocol 97

**Answer:** D

**Explanation:**

Mobility data traffic is carried via Ethernet over IP (EoIP) which is IP protocol 97. This is the IP protocol number, not a TCP/UDP port value.



**NEW QUESTION 10**

A customer has two Cisco 550B WLCs that manage all the access points in their network and provide N+1 redundancy and load balancing. The primary Cisco WLC has 60 licenses and the secondary Cisco WLC has 40. The customer wants to convert the N+1 model to an HA model and provide SSO. Configuration must be performed during a maintenance window. After performing all the configurations on both controllers, the config redundancy unit secondary command is issued on the secondary Cisco WLC and it fails. Which parameter needs to be in place to complete the configuration?

- A. A cable in the RP port
- B. The secondary Cisco WLC needs a minimum of 50 base licenses
- C. The primary Cisco WLC is already set as the secondary unit.
- D. SSO needs to be enabled

**Answer:** B

**Explanation:**

- With Release 7.4, an HA-SKU secondary controller can be configured as a backup controller for N+1 HA. For example, the following can be used as an HA-SKU controller:
  - 5508 Series Standalone controller with 50 AP license

**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 14**

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

**NEW QUESTION 15**

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 19**

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.

**Answer:** CEF

**Explanation:**

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\\_WLA](https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch3_WLA)

#### NEW QUESTION 21

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

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 22

An engineer has configured guest anchoring for a newly created SSD however, the mobility tunnels are not up, and EPING is failing from the foreign WLC to the anchor WLC. Which traffic flow must be allowed at the firewall to enable the communication?

- A. UDP port 16666
- B. IP protocol 97
- C. UDP port 97
- D. TCP port 97

**Answer:** A

**Explanation:**

The only special implementation of the WLC in CCKM is that WLCs exchange client PMK via mobility packets, such as UDP 16666.

#### NEW QUESTION 26

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 28

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\\_](https://documentation.meraki.com/MR/WiFi_Basics_and_Best_Practices/Conducting_Site_Surveys_with_MR_)

#### NEW QUESTION 32

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 36

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

**Answer:** D

**Explanation:**

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

#### NEW QUESTION 39

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 40

An engineer must repurpose a lab WLC appliance for use in the production environment of the enterprise. After the new WLC is configured with the information of the other WLC, the mobility tunnels are still not coming up. What is the reason?

- A. A firewall is blocking UDP port 16667 between the WLCs.
- B. The WLC management interfaces are in the same VLAN.
- C. The hardware platform is incompatible.
- D. The mobility groups are different.

**Answer:** D

#### NEW QUESTION 42

An engineer performs a Layer 1 survey by using Metageek 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 47

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 52**

.....



## Thank You for Trying Our Product

\* 100% Pass or Money Back

All our products come with a 90-day Money Back Guarantee.

\* One year free update

You can enjoy free update one year. 24x7 online support.

\* Trusted by Millions

We currently serve more than 30,000,000 customers.

\* Shop Securely

All transactions are protected by VeriSign!

**100% Pass Your 300-425 Exam with Our Prep Materials Via below:**

<https://www.certleader.com/300-425-dumps.html>