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NEW QUESTION: 1

A customer is running a guest WLAN with a foreign/export-anchor setup. There is one anchor WLC in the US and two in Europe. Anchor WLC priorities are used to prefer local anchors. During a routine network audit, it is discovered that a large number of guest client sessions in the US are anchored to the WLCs in Europe. Which reason explains this behavior?

- A. The US anchor WLC is anchored to itself with a priority value of zero.
- B. The anchor WLC is in the same mobility group.
- C. The foreign WLC failed and recovered.
- D. The US anchor WLC failed and recovered.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 2

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

Answer: B ([LEAVE A REPLY](#))

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.

NEW QUESTION: 3

An engineer has performed a predictive site survey for high-speed data and voice in an indoor office. What is the recommended data rate with -67 dBm signal level for optimal VoWLAN design?

- A. 6 Mbps on 802.11 bgn

- B. 24 Mbps on 802.11 bgn
- C. 12 Mbps on 802.11 an
- D. 24 Mbps on 802.11 an

Answer: B ([LEAVE A REPLY](#))

The -67 dBm measurement has been used for years for 11b phone clients from many vendors. Tests indicate that this same rule of thumb measurement works well for 11g and 11a phone clients.

The lower data rates in 11a can be disabled, the 24 Mbps data rate can be set to “required”,

NEW QUESTION: 4

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: ([SHOW ANSWER](#)**)**

Section: Mobility

NEW QUESTION: 5

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 make visual assessment of the AP operation easy.
- B. Selecting APs that can be hidden in ceiling panels to provide a secure and clean aesthetic look.
- C. Selecting AP locations where power is already available.
- D. Selecting locations that are easily accessed so maintenance and upgrades can be performed quickly.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 6

Campus users report a poor wireless experience. An engineer investigating the issue notices that in high-density areas, the wireless clients fail to switch the AP to which are automatically connected. This sticky client behavior is causing roaming issues. Which feature must the engineer configure?

- A. Load balancing and band select
- B. optimized roaming
- C. Layer 3 roaming
- D. Layer 2 roaming

Answer: B ([LEAVE A REPLY](#))

Explanation

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/80/hdx_final/b_hdx_dg_final/high_den

NEW QUESTION: 7

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: A,D (LEAVE A REPLY)

Section: Wireless Site Survey

NEW QUESTION: 8

Which statement about creating a mobility group is true, excluding mobility anchors?

- A. Each WLC must use the same mobility name and be defined as a peer in each other's static mobility members list.
- B. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair considered separately as a mobility peer.
- C. The WLCs do not have to be of the same model or type to be a member of a mobility group, however each member should be running different software versions.
- D. A mobility groups does not require all WLCs in the group to use the same virtual IP address.

Answer: (SHOW ANSWER)

- A Mobility Group is a group of WLCs in a network with the same Mobility Group name. It allows for seamless client roam and WLC redundancy.
- A Mobility Group is formed statically.

Controllers can communicate across mobility groups and clients can roam between access points in different mobility groups if the controllers are included in each other's mobility lists.

NEW QUESTION: 9

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: B,D (LEAVE A REPLY)

1. The optimal VoWLAN Cell Edge recommendation is -67 dBm.
5. Retransmissions should be kept under 20 percent.

NEW QUESTION: 10

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. The hardware platform is incompatible.
- B. The mobility groups are different.
- C. The WLC management interfaces are in the same VLAN.

D. A firewall is blocking UDP port 16667 between the WLCs.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 11

Refer to the exhibit.

Name Prefix:

Add APs:

AP Type:

Enable 11n Support: ☐

802.11a/n/ac Antenna:

802.11b/g/n Antenna:

Protocol:

Throughput: 802.11a/n/ac: 802.11b/g/n:

Services: ☒ Advanced Options

☒ Data/Coverage

Safety Margin:

☒ Voice

Safety Margin:

☒ Location

☐ Location with Monitor Mode APs

☐ Demand

☐ Override Coverage Per AP

Per AP Area0 (sq feet)

Total Coverage Area: 179312 (sq feet)

Recommended AP Count: 74

Data/Coverage: 48

Voice: 48

Location: 59

Location with Monitor Mode APs

Demand

Floor Type: Cubes and Walled Offices

Add APs Automatically:
Realize and move the rectangle using the mouse over the desired coverage area, then specify placement criteria. Click "Calculate" to determine the number of APs recommended by NCS. If you are satisfied with the result, press "Apply". APs will be created and automatically positioned on the map.

Map showing floor plan and AP placement.

Which two statements about Cisco Prime Infrastructure are true? (Choose two.)

- A. It presents the recommended number of APs for the selected coverage area based on the selections made.
- B. Planning mode requires a special license in Cisco Prime Infrastructure.
- C. It shows the map editor feature in Cisco Prime Infrastructure.
- D. Controllers must be synchronized with Cisco Prime Infrastructure for planning mode to work.
- E. It shows the planning mode feature in Cisco Prime Infrastructure.

Answer: ([SHOW ANSWER](#))

Use Planning Mode to Calculate Access Point Coverage Requirements

Prime Infrastructure planning mode lets you calculate the number of access points (APs) required to cover an area by placing fictitious APs on a map and viewing the coverage area. Based on the throughput specified for each protocol (802.11a/n or 802.11b/g/n), planning mode calculates the total number of APs required to provide optimum coverage in your network. You can calculate the recommended number and location of APs based on the following criteria:

NEW QUESTION: 12

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 ([LEAVE A REPLY](#))

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_management

NEW QUESTION: 13

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

Answer: A,E ([LEAVE A REPLY](#))

NEW QUESTION: 14

The wireless team must configure a new voice SSID for optimized roaming across multiple WLCs with Cisco 8821 phones. Which two settings accomplish this goal? (Choose two.)

- A. Use Cisco Centralized Key Management for authentication.
- B. Configure AP groups between WLCs.
- C. Configure AVC profile on new SSID.
- D. Configure mobility groups between WLCs.
- E. Use AVC to tag traffic voice traffic as best effort.

Answer: A,D ([LEAVE A REPLY](#))

NEW QUESTION: 15

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 the client is dual-band capable.
- B. Ensure that the WLAN has 802.11a enabled.
- C. Ensure that channel bonding is enabled on the WLAN.
- D. Ensure that the UNII-2 extended channels are enabled on the 802.11a radios.
- E. Ensure that the client is receiving RSSI above the minimum band select RSSI threshold.

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

Answer: A,D,E (LEAVE A REPLY)

NEW QUESTION: 16

Drag and drop the characteristics from the left onto the correct functionalities on the right.

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

avoids single point of failure on neighbor switches

Multiple AP-Manager Interfaces

LAG

Answer:

complex configuration on the Cisco WLC and infrastructure

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Multiple AP-Manager Interfaces

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LAG

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NEW QUESTION: 17

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. Change the default mobility domain.
- B. Change the HA SKU secondary unit option.
- C. Set AP fallback to disabled.
- D. Set AP fallback to enabled.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 18

Which CLI command does an engineer use to validate that the redundancy peer of a Stateful Switchover pair of controllers is up and connected?

- A. rping
- B. ping
- C. eping
- D. mping

Answer: B ([LEAVE A REPLY](#))

Both the WLCs in HA setup keep track of gateway reachability. The Active WLC sends an Internet Control Message Protocol (ICMP) ping to the gateway using the Management IP address as the source.

NEW QUESTION: 19

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: ([SHOW ANSWER](#)**)**

- Enable these UDP ports for Mobility traffic:

- 16666 - Secured Mode
- 16667 - Unsecured Mode

NEW QUESTION: 20

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: ([SHOW ANSWER](#))

Explanation

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

NEW QUESTION: 21

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 ([LEAVE A REPLY](#))

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: 22

A wireless engineer is designing a wireless network to support real-time applications over wireless. Which IEEE protocol must the engineer enable on the WLC so that the number of packets that are exchanged between an access point and client are reduced and fast roaming occurs?

A. 802.11i

B. 802.11w

C. 802.11r

D. 802.11k

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 23

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

Answer: B ([LEAVE A REPLY](#))

Step 2 Enable sticky key caching by entering this command:

```
config wlan security wpa wpa2 cache sticky enable wlan_id
```

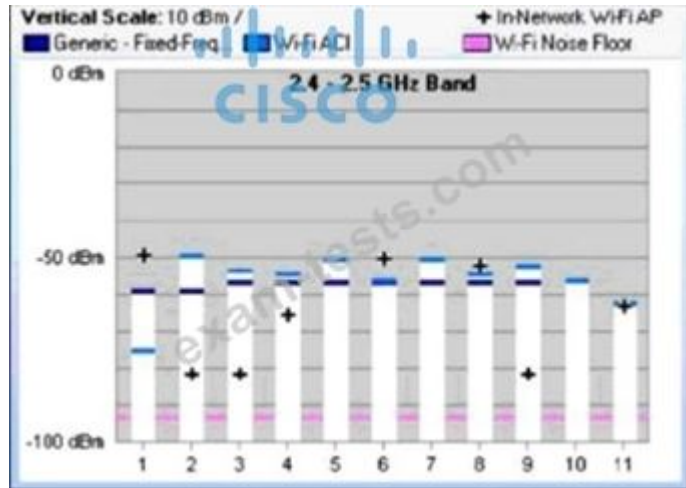
By default, SKC is disabled and opportunistic key caching (OKC) is enabled.

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

NEW QUESTION: 24

An engineer is 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?

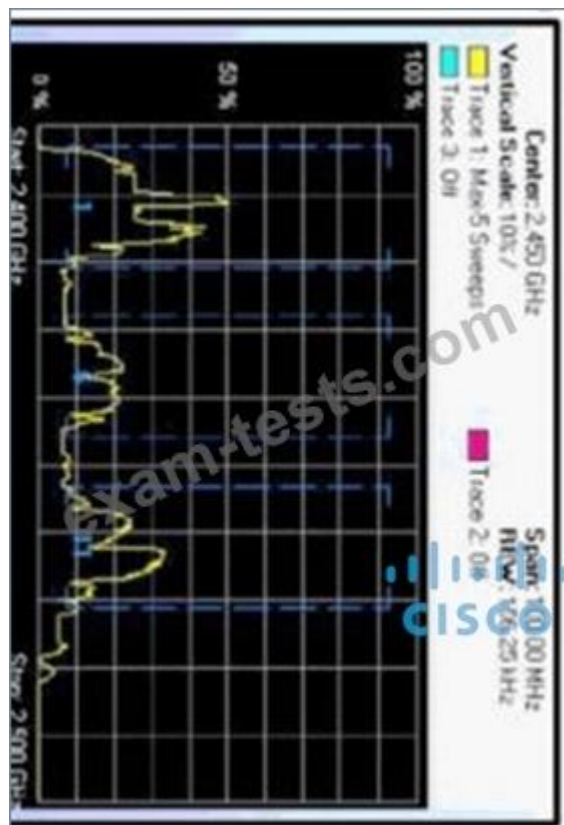
A)



B)



C)



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

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 25

A network administrator of a global organization is collapsing all controllers to a single cluster located in central Europe. Which concern must be 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 ([LEAVE A REPLY](#))

Explanation

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

NEW QUESTION: 26

When conducting a site survey for real-time traffic over wireless, which two design capabilities of smartphones and tablets must be considered? (Choose two.)

- A. no support for 802.11ac
- B. higher data rates than laptops
- C. fewer antennas than laptops
- D. no support for 802.11r

E. lower data rates than laptops

Answer: B,C ([LEAVE A REPLY](#))

Section: Wireless Site Survey

NEW QUESTION: 27

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: ([SHOW ANSWER](#))

Centralized – Works across APs and WLCs in the same Mobility group

NEW QUESTION: 28

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 ([LEAVE A REPLY](#))

NEW QUESTION: 29

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 APs that can be hidden in ceiling panels to provide a secure and clean aesthetic look.
- C. Selecting locations that make visual assessment of the AP operation easy
- D. Selecting AP locations where power is already available

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 30

An enterprise is using the wireless network as the main network connection for corporate users and guests. To ensure 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 roaming from the controller but failed. 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 (LEAVE A REPLY)

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: 31

An engineer has deployed a group of APs in an auditorium and notices that the APs are showing high cochannel interference. Which profile can be used to adjust the parameters for these high-density APs?

- A. QoS profile
- B. AVC profile
- C. RF profile
- D. ISE profile

Answer: (SHOW ANSWER)

Information About RF Profiles

RF Profiles allows you to tune groups of APs that share a common coverage zone together and selectively change how RRM will operate the APs within that coverage zone.

For example, a university might deploy a high density of APs in an area where a high number of users will congregate or meet. This situation requires that you manipulate both data rates and power to address the cell density while managing the co-channel interference. In adjacent areas, normal coverage is provided and such manipulation would result in a loss of coverage.

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NEW QUESTION: 32

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 (LEAVE A REPLY)

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: 33

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

- A. X-rays within these rooms cause multipath issues.
- B. X-rays create significant non-Wi-Fi interference on the 802.11a band
- C. X-ray rooms exhibit increased signal attenuation
- D. X-rays impact the 802.11a UNII-2 channels Vial cause access points to dynamically change channels.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 34

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 is present 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 other. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.
- D. WLCs do not need to be in the same mobility domain to communicate with each other. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.

Answer: C ([LEAVE A REPLY](#))

Explanation

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-0/configuration-guide/b_cg80/b_cg80_chapter_0100

NEW QUESTION: 35

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 virtual interface of the secondary WLC
- D. SSH to the service port interface
- E. SSH to the management interface of the primary WLC

Answer: A,D ([LEAVE A REPLY](#))

NEW QUESTION: 36

Two cisco 5520 wireless LAN controllers are managing all access points throughout the network. The WLCs are in different locations to provide geographical redundancy a mobility group has been configured on both WLCs and has a UP status on both controllers. The Aps in location A are statically configured to use controller A as the primary and controller B as the secondary. If the WLC in location A goes offline. The Aps successfully join the WLC in location, but they do not fail over to their primary configured controller. Which configuration task fixes the issue?

- A. Enable AP fallback globally on the WLC
- B. Configure the WLC in location A as primary using the CAPWAP AP Controller IP Address command on all the location A Access points.
- C. Change the AP Failover Priority to critical.
- D. Use DHCP Option 43 and specify WLC in location A as primary.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 37

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: C,E,F ([LEAVE A REPLY](#))

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_WLAN

NEW QUESTION: 38

What is the recommended cell overlap when designing a wireless network for Cisco Hyperlocation?

- A. 20%
- B. 30%
- C. 40%
- D. 50%

Answer: A ([LEAVE A REPLY](#))

- 20% cell overlap for optimized roaming and location calculations

NEW QUESTION: 39

A technician connects a Cisco Aironet 3700 Series access point to a switch and realizes that the AP is coming up with 3x3 MIMO. Which reason explains this behavior?

- A. The switch is PoE+ capable.
- B. A redundant power supply is unavailable on the switch.
- C. The switch is 802.3af capable.
- D. The AP is getting power from a power injector.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 40

A network engineer is configuring high availability on an access point. What is the maximum number of controllers that can be configured?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B ([LEAVE A REPLY](#))

Explanation

The N+1 HA architecture provides redundancy for controllers across geographically separate data centers with low cost of deployment.

So max 2 will be supported on an AP.

NEW QUESTION: 41

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: (SHOW ANSWER)

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: 42

A network administrator is troubleshooting a DMVPN setup between the hub and the spoke. Which action should the administrator take before troubleshooting the IPsec configuration?

- A. Verify ISAKMP.
- B. Verify crypto maps.
- C. Verify NHRP.
- D. Verify the GRE tunnels.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 43

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: C ([LEAVE A REPLY](#))

- 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: 44

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- A. RF groups
- B. AP groups
- C. interface groups
- D. WLC port groups

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 45

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

Answer: ([SHOW ANSWER](#))

Section: Mobility

Explanation/Reference:

NEW QUESTION: 46

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: ([SHOW ANSWER](#))

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

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NEW QUESTION: 47

Which statement about creating a mobility group is true, excluding mobility anchors?

- A. Each WLC must use the same mobility name and be defined as a peer in each other's static mobility members list.
- B. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair considered separately as a mobility peer.
- C. The WLCs do not have to be of the same model or type to be a member of a mobility group, however each member should be running different software versions.
- D. A mobility groups does not require all WLCs in the group to use the same virtual IP address.

Answer: B ([LEAVE A REPLY](#))

- The HA pair of AireOS WLCs should be considered as separated WLCs with the same exact configuration

NEW QUESTION: 48

A customer has determined that aesthetics is a primary concern for their upcoming guest deployment. Which design consideration can be leveraged to address this concern?

- A. Use enclosures to hide the wireless infrastructure in the surrounding environment.
- B. Use AIR-AP-BRACKET-1 to allow for greater mounting locations
- C. Deploy environmentally friendly cabling components to blend into the environment.
- D. Paint the access point to cover the LED from being noticeable.

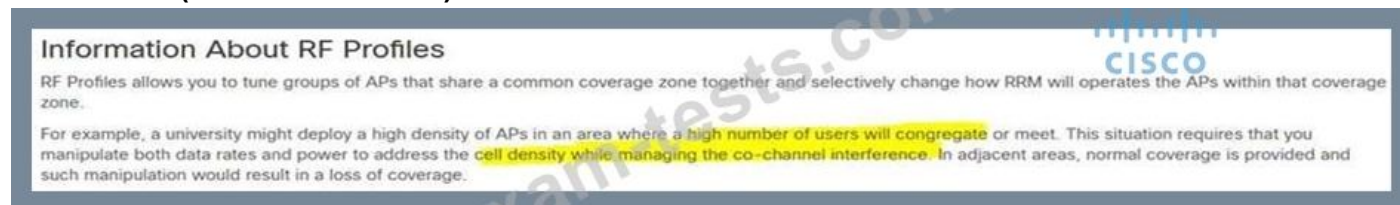
Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 49

An engineer has deployed a group of APs in an auditorium and notices that the APs are showing high cochannel interference. Which profile can be used to adjust the parameters for these high-density APs?

- A. QoS profile
- B. AVC profile
- C. RF profile
- D. ISE profile

Answer: C ([LEAVE A REPLY](#))



NEW QUESTION: 50

During a wireless network design, a customer requires wireless coverage on the perimeter of a building but also wants to minimize signal leakage from the wireless network. Which antenna should be used to accomplish this design?

- A. Patch
- B. Dipole
- C. Monopole
- D. Omnidirectional

Answer: ([SHOW ANSWER](#)**)**

<https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/antennas/installing-combined/industrial-routers-and-industrial-wireless-antenna-guide/ANT-MP-INT-OUT-M.html>

NEW QUESTION: 51

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: ([SHOW ANSWER](#)**)**

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: 52

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 ([LEAVE A REPLY](#))

NEW QUESTION: 53

What is the recommended cell overlap when designing a wireless network for Cisco Hyperlocation?

- A. 40%
- B. 50%
- C. 20%
- D. 30%

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 54

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: (SHOW ANSWER)

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_A

NEW QUESTION: 55

A customer called with a requirement that internal clients must be on different subnets depending on the building they are in. All 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 AP groups for each desired location, map the correct VLANs to the internal SSID, and add the access points for that location.
- B. Create an SSID place it to the desired VLAN under WLANs and configure 802.1x in ISE to assign the correct VLAN based on the SSID from which the client is authenticating
- C. Create FlexConnect groups, place the access points in, and set the correct VLAN to SSID mapping based on location.
- D. Create mobility anchors for the SSID and on the controller under the internal SSID create a foreign map to the desired VLAN based on location.

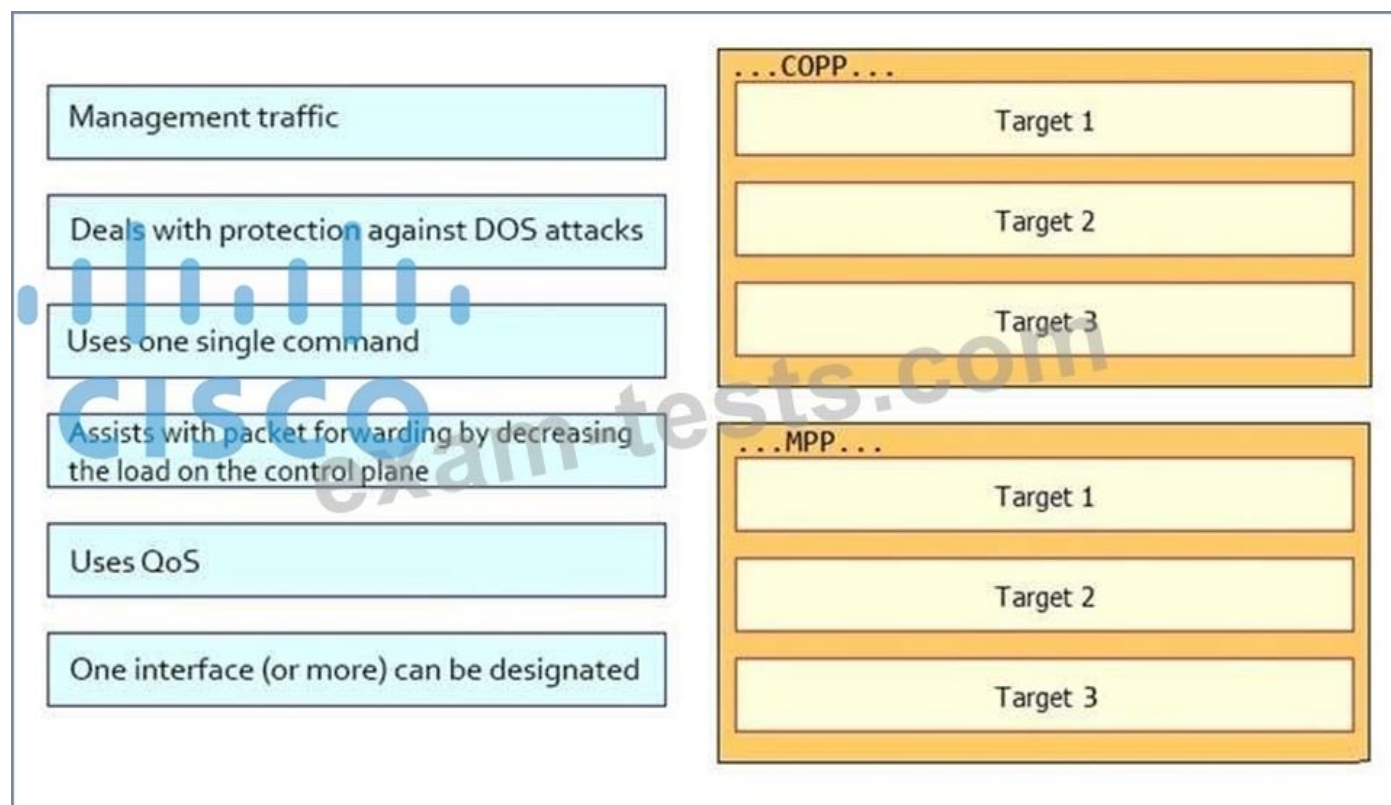
Answer: A ([LEAVE A REPLY](#))

<https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-vlan/71477-ap-group-vlans-wlc.html>

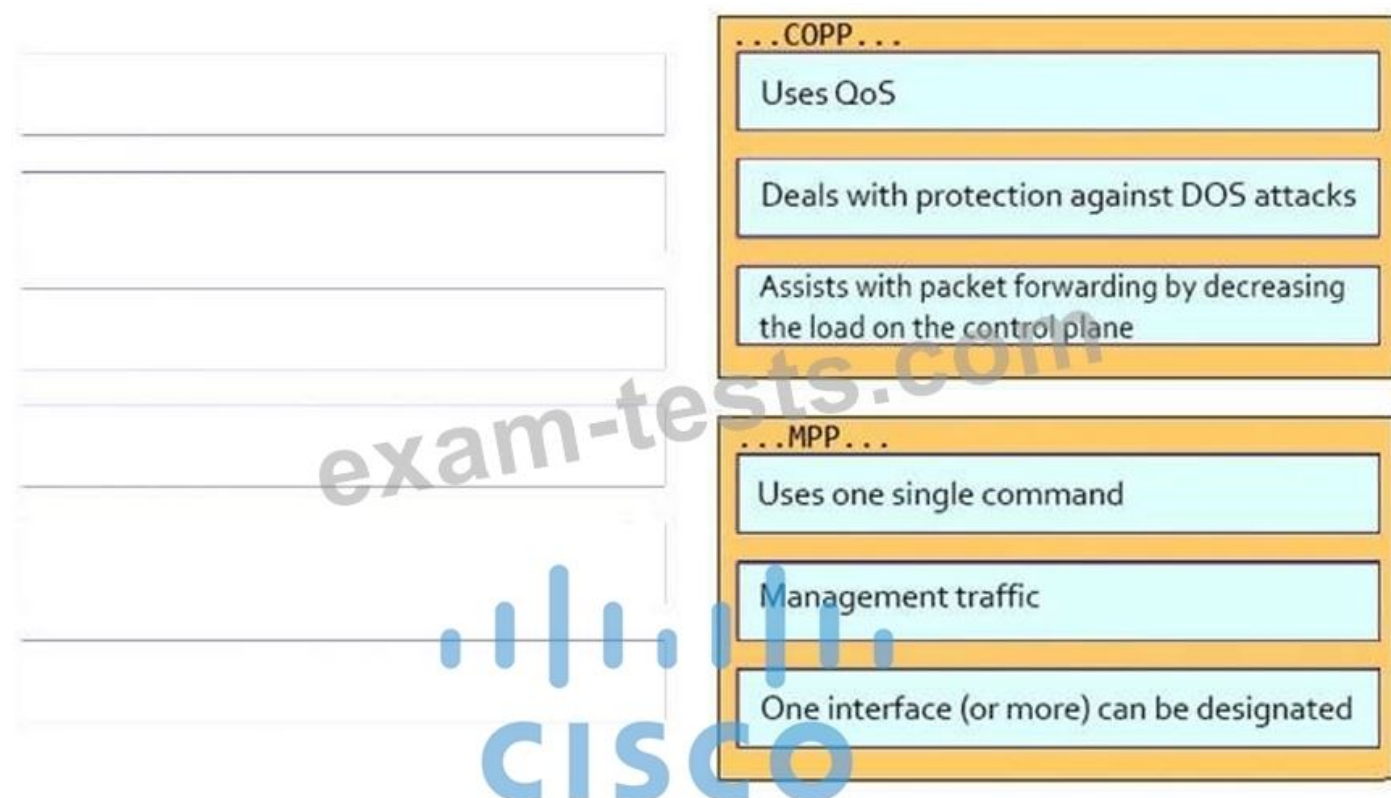
NEW QUESTION: 56

DRAG DROP

Select and Place:



Answer:



Explanation:

CoPP and MPP

<https://www.cisco.com/c/en/us/about/security-center/copp-best-practices.html> Control Plane Policing (CoPP) - CoPP is the Cisco IOS-wide route processor protection mechanism. As illustrated in Figure 2, and similar to rACLs, CoPP is deployed once to the punt path of the router. However, unlike rACLs that only apply to receive destination IP packets, CoPP applies to all packets that punt to the route processor for handling. CoPP therefore covers not only receive destination IP packets, it also

exceptions IP packets and non-IP packets. In addition, CoPP is implemented using the Modular QoS CLI (MQC) framework for policy construction. In this way, in addition to simply permit and deny functions, specific packets may be permitted but rate-limited. This behavior substantially improves the ability to define an effective CoPP policy. (Note: that "Control Plane Policing" is something of a misnomer because CoPP generally protects the punt path to the route processor and not solely the control plane.) CoPP Policy Construction and Deployment Concepts Before describing the details of CoPP policy construction and deployment, some of the important details related to MQC and its operation, especially within the context of CoPP are discussed.

In MQC, the class-map command is used to define a traffic class. A traffic class contains three major elements: a name, one or a series of match commands, and an instruction on how to evaluate these match commands. Match commands are used to specify various criteria for classifying packets. Packets are checked to see whether they match the criteria specified in the match commands. If a packet matches the specified criteria, that packet is considered a member of the class and is treated according to the QoS specifications set in the service policy. Packets that fail to meet any of the matching criteria are classified as members of the default class.

The instruction for evaluating match commands is specified as either match-any or match-all. When more than one match statement is included, match-any requires that a packet match at least one of the statements to be included in the class. If match-all is used, a packet must match all of the statements to be included in the class.

The policy-map command is used to associate a traffic class, defined by the class-map command, with one or more QoS policies. The result of this association is called a service policy. A service policy contains three elements: a name, a traffic class (specified with the class command), and the QoS policies. The purpose of the service policy is to associate a traffic class with one or more QoS policies. Classes included within policy maps are processed top-down. When a packet is found to match a class, no further processing is performed. That is, a packet can only belong to a single class, and it is the first one to which a match occurs. When a packet does not match any of the defined classes, it is automatically placed in the class class-default. The default class is always applied, whether it is explicitly configured or not.

The service-policy command is used to attach the service policy, as specified with the policy-map command, to an interface. In the case of CoPP, this is the control-plane interface. Because the elements of the service policy can be applied to packets entering, or in some versions of CoPP, leaving the interface, users are required to specify whether the service policy characteristics should be applied to incoming or outgoing packets.

It is important to note that MQC is a general framework used for enabling all QoS throughout Cisco IOS, and not exclusively for CoPP. Not all features available within the MQC framework are available or applicable to CoPP policies. For example, only certain classification (match) criteria are applicable to CoPP. In some instances, there are MQC platform and/or IOS-dependencies that may apply to CoPP. Consult the appropriate product references and configuration guides for any CoPP-specific dependencies.

Constructing the CoPP Policy

Deploying the CoPP Policy

Verifying the CoPP Policy

Tuning the CoPP Policy

https://www.cisco.com/c/en/us/td/docs/ios/12_4t/12_4t11/htsecmpp.html#wp1049321 Management Plane The management plane is the logical path of all traffic related to the management of a routing platform. One of three planes in a communication architecture that is structured in layers and planes, the management plane performs management functions for a network and coordinates functions among all the planes (management, control, data). The management plane also is used to manage a device through its connection to the network.

Examples of protocols processed in the management plane are Simple Network Management Protocol (SNMP), Telnet, HTTP, Secure HTTP (HTTPS), and SSH. These management protocols are used for monitoring and for CLI access. Restricting access to devices to internal sources (trusted networks) is critical.

Benefits of the Management Plane Protection Feature

Implementing the MPP feature provides the following benefits:

- Greater access control for managing a device than allowing management protocols on all interfaces
- Improved performance for data packets on nonmanagement interfaces
- Support for network scalability
- Simplifies the task of using per-interface ACLs to restrict management access to the device
- Fewer ACLs needed to restrict access to the device
- Management packet floods on switching and routing interfaces are prevented from reaching the CPU

NEW QUESTION: 57

Refer to the exhibit.

Name Prefix

Add APs

AP Type

Enable 11n Support ☐

802.11a/n/ac Antenna

802.11b/g/n Antenna

Protocol

Throughput 802.11a/n/ac

802.11b/g/n

Services: ☒ Advanced Options

☒ Data/Coverage

Safety Margin

☒ Voice

Safety Margin

☒ Location

☐ Location with Monitor Mode AP

☐ Demand

☐ Override Coverage Per AP

Per AP Area0 (sq feet)

Total Coverage Area 179312 (sq feet)

Recommended AP Count 74

Data/Coverage 48

Voice 48

Location 59

Location with Monitor

Mode APs

Demand

Floor Type: Cubes and Walled Offices

Add APs Automatically:

Realize and move the rectangle using the mouse over the desired coverage area, then specify placement criteria. Click "Calculate" to determine the number of APs recommended by NCS. If you are satisfied with the result, press "Apply". APs will be created and automatically positioned on the map.

PDF

Note

Which two statements about Cisco Prime Infrastructure are true? (Choose two.)

- A. It presents the recommended number of APs for the selected coverage area based on the selections made.
- B. Planning mode requires a special license in Cisco Prime Infrastructure.

- C. It shows the map editor feature in Cisco Prime Infrastructure.
- D. Controllers must be synchronized with Cisco Prime Infrastructure for planning mode to work.
- E. It shows the planning mode feature in Cisco Prime Infrastructure.

Answer: (SHOW ANSWER)

Use Planning Mode to Calculate Access Point Coverage Requirements

Prime Infrastructure planning mode lets you calculate the number of access points (APs) required to cover an area by placing fictitious APs on a map and viewing the coverage area. Based on the throughput specified for each protocol (802.11a/n or 802.11b/g/n), planning mode calculates the total number of APs required to provide optimum coverage in your network. You can calculate the recommended number and location of APs based on the following criteria:

NEW QUESTION: 58

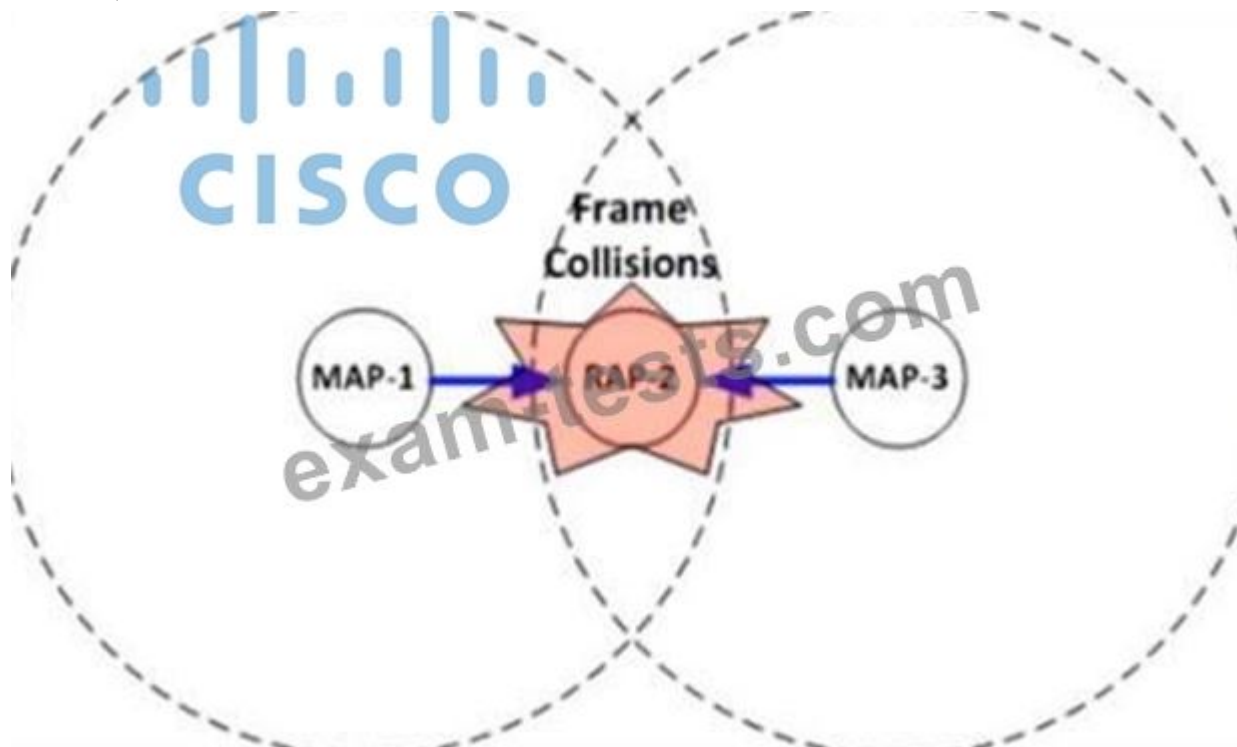
A high-density wireless network is designed. Which Cisco WLC configuration setting must be incorporated in the design to encourage clients to use the 5 GHz spectrum?

- A. Band Select
- B. RRM
- C. Cisco Centralized Key Management
- D. load balancing

Answer: A (LEAVE A REPLY)

Band Select will impact the initial scan, steering clients towards 5 GHz

NEW QUESTION: 59



Refer to the exhibit. During a post Mesh deployment survey, an engineer notices that frame collisions occur when MAP-1 and MAP-3 talk to RAP-2. Which type of issue does the engineer need to address in the design?

- A. co-channel interference
- B. backhaul latency
- C. hidden node
- D. exposed node

Answer: C (LEAVE A REPLY)

Explanation

<https://www.cisco.com/en/US/docs/solutions/Enterprise/Mobility/emob30dg/WiMesh.pdf>

NEW QUESTION: 60

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 select?

- A. 802.11ac
- B. 802.11r
- C. 802.11e
- D. 802.11i

Answer: B (LEAVE A REPLY)

NEW QUESTION: 61

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. Use a unique IP address for each WLC.
- B. Ensure that the DNS entry is tied to the virtual IP address of the WLC.
- C. Use the same IP address for each WLC.
- D. Ensure that the DNS Host Name field is defined.

Answer: B (LEAVE A REPLY)

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NEW QUESTION: 62

A network engineer is preparing for an office site survey with a height of 2.5 meters. Which three components are recommended to complete the survey? (Choose three.)

- A. Use a battery pack to power APs
- B. Use a drawing of the office space to draw AP and client placements.
- C. Use DoS attack on APs while measuring the throughput.
- D. Use APs with directional antennas.
- E. Use APs with external antennas.
- F. Use APs with built-in antennas.

Answer: A,B,F (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/8-4/b_mesh_84/Site_Preparation_and_Planning.html#ID3405

NEW QUESTION: 63

What is the purpose of the autonomous-system {autonomous-system-number} command?

- A.** It sets the EIGRP autonomous system number in a VRF.
- B.** It sets the BGP autonomous system number in a VRF.
- C.** It sets the global EIGRP autonomous system number.
- D.** It sets the global BGP autonomous system number.

Answer: A ([LEAVE A REPLY](#))

To configure the autonomous-system number for an Enhanced Interior Gateway Routing Protocol (EIGRP) routing process to run within a VPN routing and forwarding (VRF) instance, use the autonomous-system command in address-family configuration mode. To remove the autonomous-system for an EIGRP routing process from within a VPN VRF instance, use the no form of this command.

Autonomous-system autonomous-system-number

no autonomous-system autonomous-system-number

Reference: http://www.cisco.com/c/en/us/td/docs/ios/iproute_eigrp/command/reference/ire_book/ire_a1.html#wp1062796

NEW QUESTION: 64

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 97 for communication to work.
- B.** A rule is needed at the firewall to allow TCP port 16666 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 UDP port 16666 for communication to work.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 65

Drag and drop the characteristics from the left onto the correct functionalities on the right.

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

avoids single point of failure on neighbor switches

Multiple AP-Manager Interfaces

LAG

Answer:

complex configuration on the Cisco WLC and infrastructure

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

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avoids single point of failure on neighbor switches

Multiple AP-Manager Interfaces

avoids single point of failure on neighbor switches

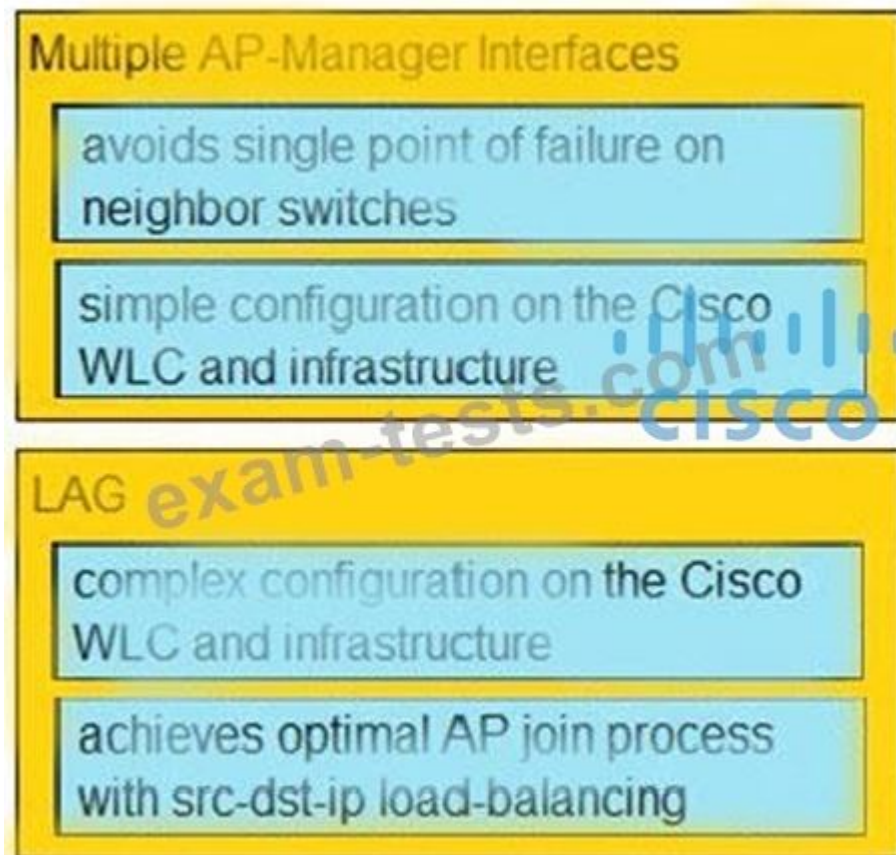
simple configuration on the Cisco WLC and infrastructure

LAG

complex configuration on the Cisco WLC and infrastructure

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

Explanation



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

NEW QUESTION: 66

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 ([LEAVE A REPLY](#))

- UDP 16666 for tunnel control traffic
- IP Protocol 97 for user data traffic
- UDP 161 and 162 for SNMP

NEW QUESTION: 67

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

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

Answer: B ([LEAVE A REPLY](#))

Section: Wireless Site Survey

NEW QUESTION: 68

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

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

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 69

Refer to the exhibit. During a post Mesh deployment survey, an engineer notices that frame collisions occur when MAP-1 and MAP-3 talk to RAP-2 Which type of issue does the engineer need to address in the design?

- A.** co-channel interference
- B.** backhaul latency
- C.** hidden node
- D.** exposed node

Answer: C ([LEAVE A REPLY](#))

<https://www.cisco.com/en/US/docs/solutions/Enterprise/Mobility/emob30dg/WiMesh.pdf>

NEW QUESTION: 70

What is the recommended cell overlap when designing a wireless network for Cisco Hyperlocation?

- A.** 20%
- B.** 30%
- C.** 40%
- D.** 50%

Answer: (SHOW ANSWER)

- 20% cell overlap for optimized roaming and location calculations

NEW QUESTION: 71

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: (SHOW ANSWER)

- 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: 72

Which statement about creating a mobility group is true, excluding mobility anchors?

A. Each WLC must use the same mobility name and be defined as a peer in each other's static mobility members list.

B. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair considered separately as a mobility peer.

C. The WLCs do not have to be of the same model or type to be a member of a mobility group, however each member should be running different software versions.

D. A mobility groups does not require all WLCs in the group to use the same virtual IP address.

Answer: B (LEAVE A REPLY)

- The HA pair of AireOS WLCs should be considered as separated WLCs with the same exact configuration

NEW QUESTION: 73

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?

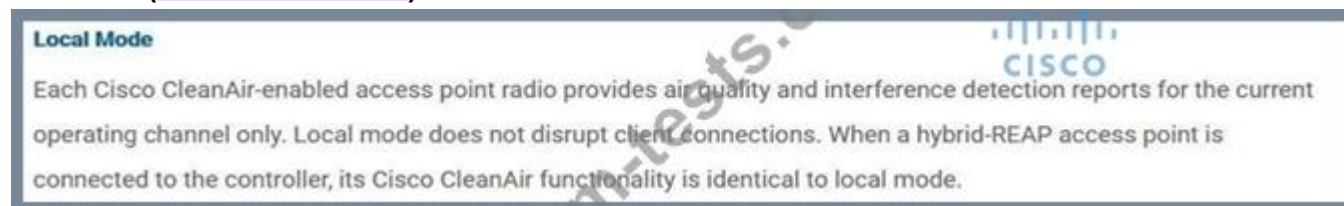
A. Local

B. Sniffer

C. Monitor

D. SE-connect

Answer: (SHOW ANSWER)



NEW QUESTION: 74

During a post deployment site survey, issues are found with non-Wi-Fi interference. What should the engineer use to identify the source of the interference?

A. Cisco Spectrum Expert

B. wireless intrusion prevention

C. Wireshark

D. network analysis module

Answer: A (LEAVE A REPLY)

https://www.cisco.com/c/en/us/products/collateral/wireless/spectrum-expert/product_data_sheet0900aecd807033c3.html

NEW QUESTION: 75

Which statement about creating a mobility group is true, excluding mobility anchors?

- A. Each WLC must use the same mobility domain name and be defined as a peer in each other's static mobility members list.
- B. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair is considered separately as a mobility peer.
- C. The WLCs do not have to be of the same model or type to be a member of a mobility group, however each member should be running different software versions.
- D. A mobility group does not require all WLCs in the group to use the same virtual IP address.

Answer: B ([LEAVE A REPLY](#))

Section: Mobility

NEW QUESTION: 76

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: A,E ([LEAVE A REPLY](#))

Explanation

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/vowlan/41dg/vowlan41dg-book/vowlan_ch

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NEW QUESTION: 77

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: A,B,F (LEAVE A REPLY)

Explanation

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

NEW QUESTION: 78

A technician connects a Cisco Aironet 3700 Series access point to a switch and realizes that the AP is coming up with 3x3 MIMO. Which reason explains this behavior?

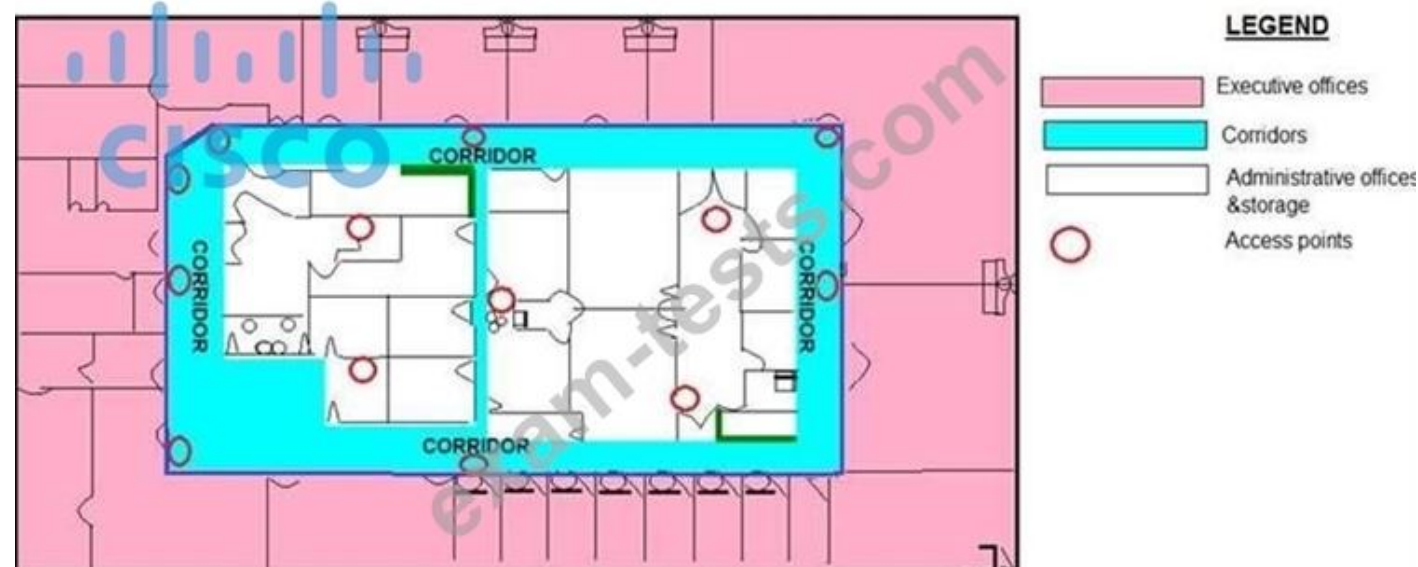
- A. A redundant power supply is unavailable on the switch.
- B. The switch is 802.3af capable.
- C. The AP is getting power from a power injector.
- D. The switch is PoE+ capable.

Answer: B (LEAVE A REPLY)

The AP 3700 with integrated 802.11ac wave-1 radio is designed to run from Power over Ethernet (PoE) sources, local power, or via mid-span or power injector. If the AP 3700 is powered by PoE and the source is 802.3af (15.4 Watts) the AP will come up and fully function in a 3x3:3 mode, for enhanced performance additional power sources such as 802.3at, enhanced PoE, Cisco PoE Injector-4, or local power may be used. With additional power (greater than 15.4W) supplied, the 3700 will shift into the 4x4:3 mode.

The big difference between 802.3af (PoE) and 802.3at (PoE+) is the amount of power delivered over each standard.

NEW QUESTION: 79



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

Answer: B (LEAVE A REPLY)

Section: Wired and Wireless Infrastructure

NEW QUESTION: 80

An engineer is designing an outdoor mesh network to cover several sports fields. The core of the network is located in a building at the entrance of a sports complex. Which type of antenna should be used with the RAP for backhaul connectivity?

- A. 5 GHz. 8-dBi omnidirectional antenna
- B. 2.4 GHz. 8-dBi patch antenna
- C. 2.4 GHz. 14-dBi omnidirectional antenna
- D. 5 GHz. 14-DBi patch antenna

Answer: A ([LEAVE A REPLY](#))

Explanation

[https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-antennas-accessories/product_data_she](https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-antennas-accessories/product_data_sheet.html)

NEW QUESTION: 81

An engineer is conducting a Layer 2 site survey. Which type of client must the engineer match to the survey?

- A. worst client available
- B. normal client
- C. best client available
- D. phone client

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 82

A network engineer needs to create a wireless design to bridge wired IP surveillance cameras in the parking lot through a mesh AP. To which operation mode of the AP should the cameras connect?

- A. RAP
- B. local
- C. FlexConnect
- D. MAP

Answer: D ([LEAVE A REPLY](#))

https://www.cisco.com/c/en/us/td/docs/wireless/controller/9800/config-guide/b_wl_16_10_cg/mesh-access-points.html

NEW QUESTION: 83

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 select?

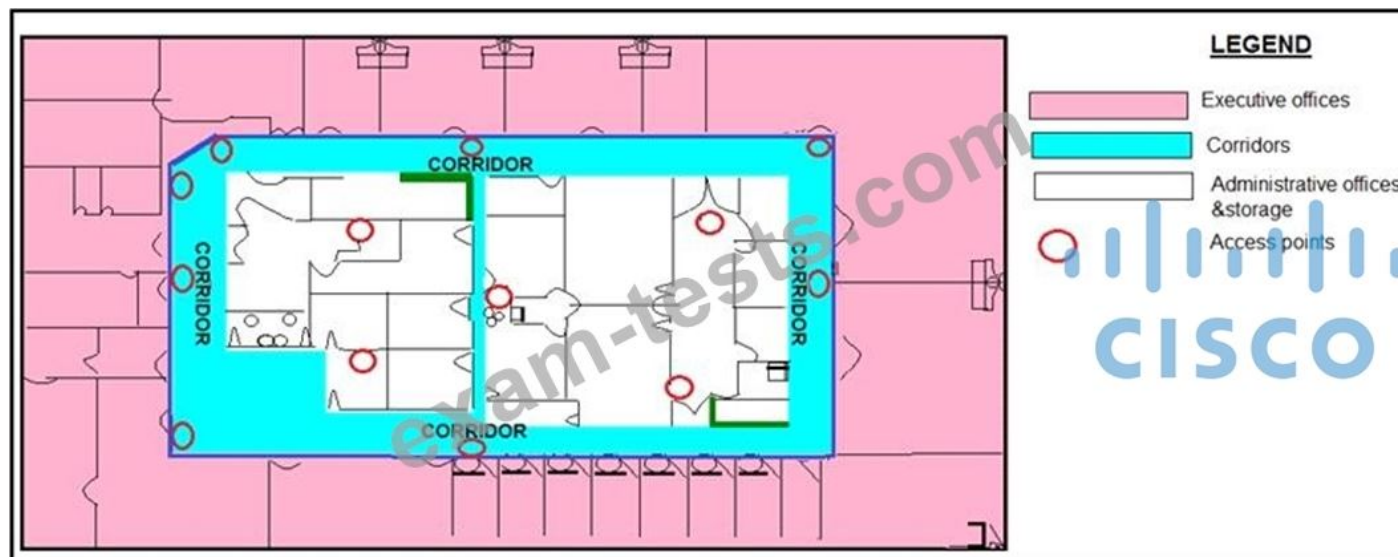
- A. 802.11i
- B. 802.11ac
- C. 802.11r
- D. 802.11e

Answer: C ([LEAVE A REPLY](#))

The 802.11r Fast Transition (FT) Roaming is an amendment to the 802.11 IEEE standards.

NEW QUESTION: 84

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. power supply considerations
- B. antenna gain
- C. aesthetics
- D. transmit power considerations

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 85

An engineer has configured guest anchoring for a newly created SSID 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 ([LEAVE A REPLY](#))

Section: Mobility

NEW QUESTION: 86

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 select?

- A. 802.11i
- B. 802.11ac
- C. 802.11r
- D. 802.11e

Answer: C ([LEAVE A REPLY](#))

Section: Mobility

NEW QUESTION: 87

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 critical. This access point fails over before other access points with the lower priority when there is primary controller failure.
- B.** When configured with priority 4, the access point is assigned with the highest priority level and it is marked as critical. 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 lowest priority level and it is marked as low. This access point fails over after other access points with the higher priority when there is primary controller failure.
- D.** When configured with priority 1, the access point is assigned with the medium priority level and it is marked as medium. This access point fails over after other access points with the higher priority when there is primary controller failure.

Answer: B ([LEAVE A REPLY](#))

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: 88

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 ([LEAVE A REPLY](#))

Explanation

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

NEW QUESTION: 89

As part of a wireless site survey in a hospital, an engineer needs to identify potential Layer 1 interferers. In which two areas is the engineer most likely to find sources of 2.4 GHz and 5 GHz RF noise? (Choose two.)

- A. magnetic resonance imaging
- B. kitchen
- C. Gamma Knife radiation treatment
- D. X-ray radiography
- E. patient room

Answer: B,E (LEAVE A REPLY)

<https://www.ciscopress.com/articles/article.asp?p=2351131&seqNum=2>

NEW QUESTION: 90

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 (LEAVE A REPLY)

Section: Mobility

NEW QUESTION: 91

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 (LEAVE A REPLY)

- 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_management.html

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NEW QUESTION: 92

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: A,C (LEAVE A REPLY)

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: 93

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 UNII-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.

Answer: (SHOW ANSWER)

portable X-ray machines, sending high-resolution images, sometimes in real time, echography machines, and electrocardiography [ECG] machines). These devices may also use the same spectrum as Wi-Fi but with other protocols and, therefore, become sources of interference for your system.

NEW QUESTION: 94

An engineer must perform a pre-deployment site survey for a new building in a high-security area. The design must provide a primary signal RSSI of -65 dBm for the clients. Which two requirements complete This design? (Choose two)

- A. Site access
- B. AP model
- C. WLC model
- D. HAVC access
- E. Number of clients

Answer: B,E (LEAVE A REPLY)

Explanation

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

NEW QUESTION: 95

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 (LEAVE A REPLY)

Explanation

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

NEW QUESTION: 96

A network engineer is configuring high availability on an access point. What is the maximum number of controllers that can be configured?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: (SHOW ANSWER)

The N+1 HA architecture provides redundancy for controllers across geographically separate data centers with low cost of deployment.

So max 2 will be supported on an AP.

NEW QUESTION: 97

A technician connects a Cisco Aironet 3700 Series access point to a switch and realizes that the AP is coming up with 3x3 MIMO. Which reason explains this behavior?

- A. A redundant power supply is unavailable on the switch.
- B. The switch is 802.3af capable.
- C. The AP is getting power from a power injector.
- D. The switch is PoE+ capable.

Answer: B (LEAVE A REPLY)

The AP 3700 with integrated 802.11ac wave-1 radio is designed to run from Power over Ethernet (PoE) sources, local power, or via mid-span or power injector. If the AP 3700 is powered by PoE and the source is 802.3af (15.4 Watts) the AP will come up and fully function in a 3x3:3 mode, for enhanced performance additional power sources such as 802.3at, enhanced PoE, Cisco PoE Injector-4, or local power may be used. With additional power (greater than 15.4W) supplied, the 3700 will shift into the 4x4:3 mode.

The big difference between 802.3af (PoE) and 802.3at (PoE+) is the amount of power delivered over each standard.

NEW QUESTION: 98

Where must the APs be mounted when used in a high-density wireless network to provide 6 dB to 20 dB of attenuation to a cell?

- A. in the aisle
- B. under the seat
- C. above the stage
- D. under the stage

Answer: (SHOW ANSWER)

Under seat or under desk mounting can provide from 6 dB to 20 dB of attenuation to the cell,

NEW QUESTION: 99

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

Answer: B ([LEAVE A REPLY](#))

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

NEW QUESTION: 100

A wireless engineer is designing a wireless network to support real-time applications over wireless. Which IEEE protocol must the engineer enables on the WLC so that the number of packets that are exchanged between an access point and client are reduced and fast roaming occurs?

- A. 802.11w
- B. 802.11r
- C. 802.11i
- D. 802.11k

Answer: (SHOW ANSWER)

802.11r reduces the number of packets that are exchanged between the client and an AP. The client preauthenticates to the AP it will roam to before actually roaming. This means the roam itself occurs faster because the AP already has the client authentication credentials cached, resulting in fewer packets required between the client and the AP.

NEW QUESTION: 101

An engineer changed the TPC Power Threshold for 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. Increased received sensitivity
- B. Decreased channel overlap
- C. Decreased client signal strength
- D. Increase cell size

Answer: (SHOW ANSWER)

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