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NEW QUESTION: 1

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 (LEAVE A REPLY)

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: 2

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

Answer: B (LEAVE A REPLY)

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: 3

An engineer is designing a new wireless network. The network needs to meet these requirements

- * support a high wireless client concentration
- * support data over wireless
- * support voice over wireless
- * avoid interference

Which design approach should be taken?

- A. 5 GHz frequency band with channel bonding, to support 40 MHz channels
- B. 5 GHz frequency band without channel bonding, to support 20 MHz channels
- C. 5 GHz frequency band with channel bonding, to support 80 MHz channels
- D. 2.4 GHz frequency band without channel bonding to support 20 MHz channels

Answer: D (LEAVE A REPLY)

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

NEW QUESTION: 4

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

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Explanation:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-4/configuration/guides/consolidated/b_cg74_CONSOLIDATED/b_cg74_CONSOLIDATED_chapter_010100001.html

NEW QUESTION: 5

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: B (LEAVE A REPLY)

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

NEW QUESTION: 6

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: 7

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 (LEAVE A REPLY)

- 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: 8

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

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

Answer: B,E (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cuipph/8821/english/adminguide/w88x_b_wireless-8821-8821ex-admin-guide/w88x_b_wireless-8821-8821ex-admin-guide_chapter_01.html

NEW QUESTION: 9

A wireless engineer is designing a wireless network for a warehouse using access points with internal antennas. Which two elements have a negative effect on the wireless users? (Choose two.)

- A. wireless channels
- B. access point height
- C. client authentication
- D. client authorization
- E. absorption

Answer: B,E (LEAVE A REPLY)

https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-1250-series/design_guide_c07-693245.html#_Toc309331086

NEW QUESTION: 10

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)

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/Enterprise-Mobility-8-5-Design-Guide/Enterprise_Mobility_8-5_Deployment_Guide.pdf

NEW QUESTION: 11

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 (LEAVE A REPLY)

<https://www.cisco.com/c/dam/en/us/td/docs/cloud-systems-management/network-automation-and-management/dna-center/deploy-guide/cisco-dna-center-sd-access-wl-dg.pdf>

NEW QUESTION: 12

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

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

NEW QUESTION: 13

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: 14

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.mwrf.com/technologies/passive-components/article/21844577/cshaped-slot-serves-uwband-antenna>

NEW QUESTION: 15

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

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

Answer: ([SHOW ANSWER](#))

<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: 16

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: ([SHOW ANSWER](#))

The AP1524PS includes three radios: a 2.4 -GHz, a 5.8- GHz, and a 4.9-GHz radio. The 2.4-GHz radio is for client access (non- public safety traffic) and the 4.9-GHz radio is for public safety client access traffic only. The 5.8-GHz radio can be used as the backhaul for both public safety and non-public safety traffic.

https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-6/configuration-guide/b_cg76/b_cg76_chapter_010000001.html

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NEW QUESTION: 17

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: A (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/ch2_Arch.html

NEW QUESTION: 18

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: C,E (LEAVE A REPLY)

Site surveys are one of the basic requirements when you deploy a WLAN, and you must always consider the Wi-Fi capabilities of the client devices or endpoints. Most smartphones and tablets support 802.11. However, generally, the smartphones and tablets have fewer antennas and lower data rates than laptops. In addition, most are not purpose-built for the enterprise WLAN market. Almost all smartphones and tablets support enterprise security policies. However, many of them do not support

NEW QUESTION: 19

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 FlexConnect groups, place the access points in. and set the correct VLAN to SSID mapping based on location.
- B. Create AP groups for each desired location, map the correct VLANs to the internal SSID and add the access prints for that location
- C. 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.
- 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: (SHOW ANSWER)

NEW QUESTION: 20

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: C,D (LEAVE A REPLY)

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

NEW QUESTION: 21

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: 22

An engineer must perform an assessment of a customer LAN for a future IEEE 802.11ac Wave 2 wireless deployment. All access switches are Fast Ethernet-capable only, and the wired infrastructure between existing APs and access switches is based on the CAT 6A standard. Which two actions provide maximum support of Cisco 3800 Series access points? (Choose two.)

- A. Replace the existing switches with gigabit switches with 10 G uplinks.
- B. Replace the existing wiring infrastructure with the CAT-7E wiring standard.
- C. Ensure that cable distances between access switches and APs are not longer than 55 meters.
- D. Replace the existing switches with mGig switches.
- E. Ensure that cable distances between access switches and APs are not longer than 100 meters.

Answer: A,D (LEAVE A REPLY)

NEW QUESTION: 23

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 (LEAVE A REPLY)

NEW QUESTION: 24

Refer to the exhibit.

Redundancy Mgmt Ip	172.25.44.4
Peer Redundancy Mgmt Ip	172.25.44.5
Redundancy port Ip	169.254.44.4
Peer Redundancy port Ip	169.254.44.5
Redundant Unit	Primary
Mobility Mac Address	60:73:5C:D1:76:00
Keep Alive Timer (100 - 1000)	100 milliseconds
Keep Alive Retries (3 - 10)	3
Peer Search Timer (60 - 300)	120 seconds
Management Gateway Failover	Enabled
SSO	Disabled

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 datacenter. 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 Global Configuration of SSO is set to Disabled on the controller.
- B. The connection between the redundancy ports is missing.
- C. The redundancy port must be the same subnet as the redundancy mgmt.
- D. The keep alive timer is too low which causes synchronization problems.

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

NEW QUESTION: 25

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

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.

NEW QUESTION: 26

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: 27

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: 28

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. number of clients
- B. HVAC access
- C. AP model
- D. site access
- E. WLC model

Answer: A,C (LEAVE A REPLY)

NEW QUESTION: 29

A network engineer is working on a design for a wireless network that must support data, voice, and location services. To support these services, which access point placement must the engineer use?

- A. corner only
- B. perimeter and corner
- C. perimeter only
- D. indoor and outdoor

Answer: B (LEAVE A REPLY)

In a location-ready design, it is important to ensure that access points are not solely clustered in the interior and toward the center of floors. Rather, perimeter access points should complement access points located within floor interior areas. In addition, access points should be placed in each of the four corners of the floor, and at any other corners that are encountered along the floor perimeter. These perimeter access points play a vital role in ensuring good location fidelity within the areas they encircle, and in some cases may participate in the provisioning of general voice or data coverage as well.

NEW QUESTION: 30

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)

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-0/configuration-guide/b_cg80/b_cg80_chapter_010011.html

NEW QUESTION: 31

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

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NEW QUESTION: 32

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

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

Answer: A (LEAVE A REPLY)

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-7/b_wireless_high_client_density_design_guide.html

NEW QUESTION: 33

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

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