

## Exam Questions 200-355

Implementing Cisco Wireless Network Fundamentals

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### NEW QUESTION 1

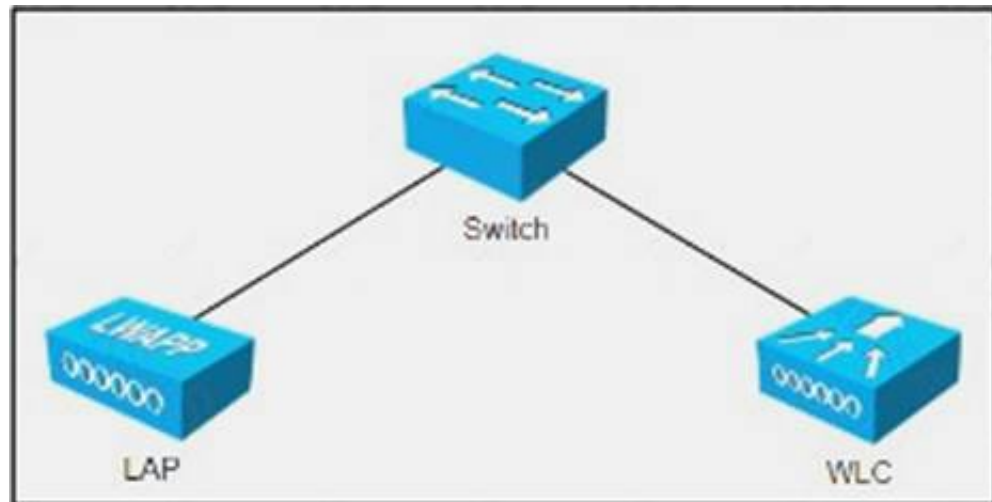
An engineer wants to deploy a 2504 controller as the anchor controller for a guest WLAN that resides on a 5508 controller in a different mobility group. What configuration change must be applied to support this deployment strategy?

- A. UDP 16666 and IP Protocol 97 must be enabled on the 2504 controller
- B. UDP 5246 and TCP Protocol 97 must be enabled on the router
- C. The 2504 controller must be added to the same mobility group as the 5508.
- D. DHCP Option 43 must be added to the neighboring switchport

**Answer: C**

### NEW QUESTION 2

Refer to the exhibit.



Which three switch port types are valid for these connections? (Choose three.)

- A. access
- B. port-channel
- C. port-channel trunk
- D. trunk
- E. port-channel access
- F. routed port

**Answer: ACD**

### NEW QUESTION 3

Which four options are the characteristics of the original 802.11 protocol? (Choose four.)

- A. Defined DSSS and FHSS as possible methods for modulation
- B. Designed to operate in the 5 GHz ISM frequency spectrum
- C. The most common deployment is three non-overlapping channels that are 20 MHz wide
- D. The protocol sets the maximum throughput at 1 Mb/s or 2 Mb/s
- E. Defined FHSS and OFDM as possible methods for modulation
- F. The most common deployment is three non-overlapping channels that are 22 MHz wide
- G. Designed to operate in the 2.4 GHz ISM frequency spectrum
- H. The protocol sets the maximum throughput at 1 Mb/s

**Answer: ADFG**

### NEW QUESTION 4

You have an organization that has a growing number of standalone APs. You would like to migrate to lightweight APs and manage them through Cisco WCS. Which software platform allows you to make this migration?

- A. The enterprise version of Cisco WCS allows this migration and provides the most flexibility in the number of APs supported.
- B. CiscoWorks WLSE is the only management platform that allows this migration, but it is limited to 500 APs.
- C. You can migrate your network to Cisco WCS single server with the CiscoWorks WLSE upgrade software upgrade.
- D. You can migrate the network by using either the single server or enterprise software platforms, both using the CiscoWorks WLSE upgrade software upgrade.

**Answer: C**

### NEW QUESTION 5

Drag the characteristics on the left that are associated with the specific controller-based AP deployment mode and drop them in the appropriate category on the right.

available on Cisco 3500 Series APs

A minimum of a 500-byte MTU is supported between the AP and the controller.

allows APs to act as a network-connected sensor

may operate in connected or standalone modes

mode used to set up a mesh network, either indoor or outdoor

APs can switch client data traffic locally and perform client authentication locally when their connection to a centralized controller is lost.

**AP SE-Connect Mode**

Target

Target

**AP Bridging Mode**

Target

**H-REAP**

Target

Target

Target

Answer:

Explanation:

Drag the characteristics on the left that are associated with the specific controller-based AP deployment mode and drop them in the appropriate category on the right.

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**AP Bridging Mode**

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**H-REAP**

A minimum of a 500-byte MTU is supported between the AP and the controller.

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APs can switch client data traffic locally and perform client authentication locally when their connection to a centralized controller is lost.

#### NEW QUESTION 6

When deploying a Cisco Cloud Wireless Infrastructure, what two destination ports must be open? (Choose two.)

- A. TCP/5246
- B. UDP/5246
- C. TCP/5247
- D. UDP/5247
- E. TCP/7351

F. UDP/7351  
 G. TCP/7734  
 H. UDP/7734

**Answer:** FG

#### NEW QUESTION 7

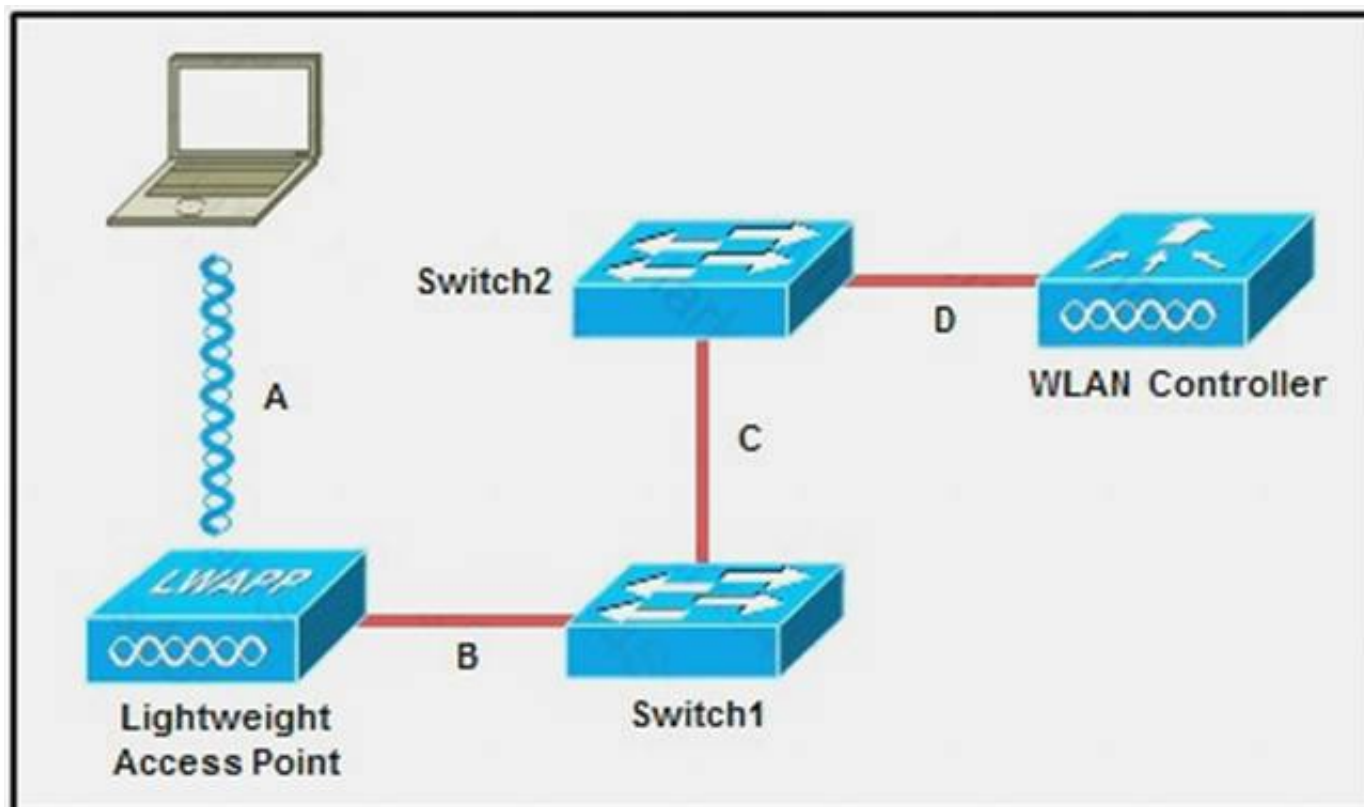
A help desk engineer is attempting to perform a remote packet capture on the wireless network. Which access point mode is necessary to perform this function?

- A. sniffer
- B. SE-Connect
- C. monitor
- D. rogue detector
- E. FlexConnect

**Answer:** A

#### NEW QUESTION 8

Refer to the exhibit.



At which point in the network topology must the trunk be configured to support multiple SSIDs for voice and data separation?

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

**Answer:** D

#### NEW QUESTION 9

Which statement about an infrastructure basic service set is true according to IEEE 802.11 specifications?

- A. The set also is called an ad hoc network.
- B. The BSSID is generated from the first wireless client that starts up in the IBSS.
- C. The set enables the use of ESS.
- D. No signals are relayed from one client to another client.

**Answer:** C

#### NEW QUESTION 10

After you configure the Cisco 5508 Wireless Controller v7.6, a customer requests an SSID that allows for client web authentication with email input. Which authentication method should be used?

- A. pass-through
- B. authentication
- C. splash page web redirect
- D. conditional web redirect
- E. on MAC filter failure

**Answer:** A

#### NEW QUESTION 10

Which two items are used to help convert a lightweight AP into an autonomous AP? (Choose two.)

- A. HTTP express setup on the AP



- B. Cisco WCS template
- C. Cisco WLC CLI
- D. Windows Cisco Conversion Tool
- E. image with naming convention of platform\_name-k9w7-tar.default
- F. image with naming convention of platform\_name-rcvk9w8-tar

Answer: CE

#### NEW QUESTION 15

General			Credentials	Interfaces	High Availability	Inventory	Advanced
	Name	Management IP Address					
Primary Controller	WLC1	10.201.204.8					
Secondary Controller	WLC2	10.201.204.11					
Tertiary Controller	WLC3	10.201.204.6					
AP Failover Priority		Low					

#### High Availability

AP Heartbeat Timeout(1-30)	30
Local Mode AP Fast Heartbeat Timer State	Disable
H-REAP Mode AP Fast Heartbeat Timer State	Disable
AP Primary Discovery Timeout(30 to 3600)	120
Back-up Primary Controller IP Address	10.201.204.19
Back-up Primary Controller name	Back-UP-WLC
Back-up Secondary Controller IP Address	
Back-up Secondary Controller name	

#### TCP MSS

Global TCP Adjust MSS	<input type="checkbox"/>
-----------------------	--------------------------

#### AP Retransmit Config Parameters

AP Retransmit Count	5	<input type="checkbox"/>
AP Retransmit Interval	3	<input type="checkbox"/>

Refer to the exhibit. WLC1 becomes unresponsive due to a power failure at a customer site. How does the access point that is shown in the WLC controller GUI behave now that WLC1 is disabled?

- A. associates to controller 10.201.204.6
- B. associates to controller 10.201.204.11
- C. associates to controller 10.201.204.8
- D. associates to controller 10.201.204.19

Answer: B

#### NEW QUESTION 20

Which option is used to form the BSSID in a BSS?

- A. AP radio MAC address
- B. AP wired MAC address
- C. AP serial number
- D. client radio MAC address
- E. client wired MAC address
- F. client serial number

Answer: A

#### NEW QUESTION 23

An engineer is using a predictive survey tool to estimate placement of APs in a carpeted office space. Most interior walls should be assigned which attenuation

value?

- A. 2 dB
- B. 3 dB
- C. 4 dB
- D. 5 dB

**Answer:** B

#### NEW QUESTION 28

```
interface GigabitEthernet2/1
  no ip address
  switchport
  switchport trunk encapsulation dot1q
  switchport trunk allowed vlan 1,5,15,20,25,30,35,40,45,50,55,100
  switchport trunk native vlan 44
  switchport mode trunk
end
```

Refer to the exhibit. An engineer is configuring a SSID to utilize the management interface on the WLC. The management interface is configured with an untagged VLAN in the wireless controller interface settings. The controller is connected to a neighboring switch via the interface shown in the diagram. Which VLAN will traffic coming from the newly created SSID use to traverse the wired network?

- A. 1
- B. 20
- C. 44
- D. 50

**Answer:** C

#### NEW QUESTION 30

A network engineer notices that two mesh APs are having problems communicating. After reviewing the current radio configurations, it is noted that one AP is transmitting at 3 mW while the other is transmitting at 60 mW. How many decibels would the 3-mW AP need its power increased to match the 60-mW AP?

- A. 8
- B. 12
- C. 13
- D. 20
- E. 57

**Answer:** C

#### NEW QUESTION 34

Which RRM feature allows an access point to avoid non-IEEE 802.11 interference?

- A. DCA
- B. TPC
- C. RF groups
- D. coverage hole detection

**Answer:** A

#### NEW QUESTION 38

The IEEE 802.11n standard provides 40-MHz channels, improved MAC efficiency, and MIMO. Which three elements define the 802.11n implementation of MIMO? (Choose three.)

- A. channel bonding
- B. dynamic frequency selection
- C. maximal ratio combining
- D. packet aggregation
- E. spatial multiplexing
- F. transmit beam forming

**Answer:** CEF

#### NEW QUESTION 40

An engineer is trying to identify if radar has impacted the wireless network at a customer site. When using the controller GUI, which dashboard in the Monitor section presents this information?

- A. 802.11a/n - Air Quality Reports
- B. Clean Air - Worst Air Quality Report

- C. 802.11b/g/n - Interfering Devices
- D. Statistics - Mobility Statistics

**Answer:** A

#### NEW QUESTION 44

Mac OS X machines are having issues accessing the wireless network. While working with TAC, the administrator is asked to find the Mac laptop's wireless adapter model and driver. Where should the administrator look to find this information?

- A. About This Mac > System Report
- B. Control Panel > System
- C. System Preferences > Network > Wi-Fi Adapter > Advanced
- D. Control Panel > Networking > Adapters > Properties

**Answer:** A

#### NEW QUESTION 46

Which two wireless technologies can interfere with 802.11 networks? (Choose two.)

- A. DECT
- B. ZigBee
- C. WiMax
- D. GSM

**Answer:** AB

#### NEW QUESTION 51

How many dBm is 40 mW?

- A. 10 dBm
- B. 16 dBm
- C. 20 dBm
- D. 22 dBm
- E. 40 dBm

**Answer:** B

#### NEW QUESTION 52

Which option describes computer-to-computer wireless communication?

- A. BSS and BSA
- B. IBSS and ad hoc network
- C. ad hoc network and BSA
- D. IBSS and ESS
- E. ESS and BSA
- F. BSS and ad hoc network

**Answer:** B

#### NEW QUESTION 53

A customer wants to deploy Cisco Cloud Wireless architecture with 802.11ac capabilities. Which two access points would meet the customers requirements? (Choose two.)

- A. Cisco 3700 Access Points
- B. Cisco MR34 Access Points
- C. Cisco MR18 Access Points
- D. Cisco 3600 Access Points
- E. Cisco MR72 Access Points
- F. Cisco 1570 Access Points
- G. Cisco MR26 Access Points

**Answer:** BE

#### NEW QUESTION 58

Which interface is considered a dynamic interface?

- A. the virtual interface
- B. the AP manager interface
- C. the LAG interface
- D. the management interface
- E. the service port interface
- F. a WLAN client data interface

**Answer:** F

#### NEW QUESTION 60

You are testing a new autonomous Cisco Aironet 1260 AP that has booted for the first time on the existing corporate network, which includes voice, data, and location services.

How do you reach the GUI of the AP?

- A. HTTP to 10.0.0.1.
- B. HTTP to 192.168.1.1.
- C. HTTP to the DHCP address.
- D. HTTPS to 10.0.0.1.
- E. HTTPS to the 192.168.1.1.
- F. HTTPS to the DHCP address.

**Answer:** C

#### NEW QUESTION 62

During the deployment of a wireless network for data and location services, an engineer is to fine-tune the location services. What is this type of survey called?

- A. passive fingerprinting
- B. passive calibrating
- C. active fingerprinting
- D. active calibrating

**Answer:** A

#### NEW QUESTION 65

Which two statements best describe the LAG configuration between a Cisco WLC and a Cisco Catalyst switch? (Choose two.)

- A. The Catalyst switch should be configured for PAgP.
- B. The Catalyst switch should be configured only for Layer 2 load balancing.
- C. The Catalyst switch should be configured for "on" mode.
- D. The Cisco WLC relies on the connected switch to perform the load-balance of traffic.
- E. The Cisco WLC aggregates multiple management interfaces into a single virtual interface.

**Answer:** CD

#### NEW QUESTION 68

A network engineer requires an antenna for a point-to-point bridge with at least 20 dBi of gain. Which antenna is appropriate for the task?

- A. Yagi
- B. patch
- C. parabolic dish
- D. dipole
- E. internal omnidirectional

**Answer:** C

#### NEW QUESTION 71

Microsoft Active Directory integrated machines are not authenticating to the internal WLAN. The WLAN settings are WPA2-AES-802.1x and are authenticating to a Cisco Identity Services Engine server. You investigate and note that non-domain authenticated machines are properly authenticating to the WLAN using their Active Directory credentials. Why would this problem occur?

- A. The WLAN is configured improperly in group policy.
- B. The ACS server is not joined to the domain, causing authentications to fail.
- C. The domain machines are configured to disable the wireless adapter.
- D. The non-domain machines are using local accounts that are not authenticated through the domain.

**Answer:** A

#### NEW QUESTION 72

Which device divides a signal between two antennas?

- A. splitter
- B. lightening arrestor
- C. attenuator
- D. amplifier

**Answer:** A

#### NEW QUESTION 73

After installing a Cisco 5508 Wireless Controller using the default settings, how often will the RRM update occur?

- A. 30 seconds
- B. 60 seconds
- C. 300 seconds
- D. 600 seconds
- E. 3600 seconds
- F. 7200 seconds



Answer: D

#### NEW QUESTION 74



Refer to the exhibit. In an effort to identify RF characteristics at a customer location, an RF engineer uses the Spectrum Analyzer tool that is shown. Which feature that is native to the Spectrum Analyzer is identified by the exhibit?

- A. Real-Time FFT
- B. Duty Cycle
- C. Max Hold
- D. Time Domain

Answer: A

#### NEW QUESTION 75

Which calculation computes the EIRP of an antenna?

- A.  $EIRP = Tx \text{ power (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
- B.  $EIRP = \text{Cable Loss (dB)} + \text{Antenna Gain (dBi)} - Tx \text{ power (dBm)}$
- C.  $EIRP = \text{Cable Loss (dB)} + \text{Antenna Gain (dBi)} / Tx \text{ power (dBm)}$
- D.  $EIRP = Tx \text{ power (dBm)} + \text{Antenna Gain (dBi)} / \text{Cable Loss (dB)}$
- E.  $EIRP = \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)} * Tx \text{ power (dBm)}$
- F.  $EIRP = Tx \text{ power (dBm)} * \text{Antenna Gain (dBi)} / \text{Cable Loss (dB)}$

Answer: A

#### NEW QUESTION 76

Access points must discover a wireless LAN controller before they can become an active part of the network. In which order does an access point try to discover a controller?

- A. Layer 3 CAPWAP or LWAPP broadcast discovery DHCP option 43Locally stored controller IP address discovery DNS controller name resolution
- B. Layer 3 CAPWAP or LWAPP broadcast discovery Locally stored controller IP address discovery DNS controller name resolutionDHCP option 43
- C. Layer 3 CAPWAP or LWAPP broadcast discovery Locally stored controller IP address discovery DHCP option 43DNS controller name resolution
- D. DNS controller name resolution DHCP option 43Layer 3 CAPWAP or LWAPP broadcast discovery Locally stored controller IP address discovery

Answer: C

#### NEW QUESTION 78

What is an interferer that an engineer may see in Cisco CleanAir?

- A. microwave ovens
- B. rogue APs
- C. malicious clients
- D. co-channel interference

Answer: A

#### NEW QUESTION 80

Which two statements about WiMAX technology are true? (Choose two.)

- A. WiMAX is defined by 802.11i.
- B. Typically, fixed WiMAX networks have a higher-gain directional antenna installed near the client.

- C. WiMAX is capable of working as a long-range system over several miles.  
D. WiMAX works only for licensed frequencies.

**Answer:** BC

#### NEW QUESTION 84

Which statement describes spread spectrum technology in wireless communications?

- A. Signal is spread across optical pulses.  
B. Signal is spread across variations of amplitudes.  
C. Signal is spread across one frequency.  
D. Signal is spread across a whole band of frequencies.

**Answer:** D

#### NEW QUESTION 85

An engineer wants to have users who connect to a WLAN be redirected to a terms-of-service page with the company logo and a login. What should be configured on the WLAN to enable this capability?

- A. Layer 2 IEEE 802.1x  
B. Web Policy Slash Page Web Redirect  
C. Web Policy Authentication  
D. AAA Servers  
E. Web Policy Passthrough

**Answer:** C

#### NEW QUESTION 88

What does RF determine?

- A. cycle pattern size  
B. how often a wave occurs  
C. signal size  
D. quantity of energy injected in a signal

**Answer:** B

#### NEW QUESTION 92

Drag the description from the left and drop it on the name of the wireless LAN controller interface that it describes on the right.

Always available. Controls intercontroller communications.	AP manager interface
Not always required for configuratoin. IP source address of CAPWAP tunnels.	management interface
Always available. Used for DHCP relay.	virtual
Not always required for configuration. Require static routes.	dynamic interface
Not always required for configuration. Known as the VLAN interface.	service interface

**Answer:**

**Explanation:**

Drag the description from the left and drop it on the name of the wireless LAN controller interface that it describes on the right.

Always available. Controls intercontroller communications.	Not always required for configuratoin. IP source address of CAPWAP tunnels.
Not always required for configuratoin. IP source address of CAPWAP tunnels.	Always available. Controls intercontroller communications.
Always available. Used for DHCP relay.	Always available. Used for DHCP relay.
Not always required for configuration. Require static routes.	Not always required for configuration. Known as the VLAN interface.
Not always required for configuration. Known as the VLAN interface.	Not always required for configuration. Require static routes.

#### NEW QUESTION 94

If an antenna has a dBd of 8.6, what is the dBi value?

- A. 6.2
- B. 6.46
- C. 8.6
- D. 10.74
- E. 12.88

**Answer:** D

#### NEW QUESTION 98

A network engineer is connected via wireless to a Cisco AireOS WLC and wants to download the configuration but is unable to do so. Which change will correct the issue?

- A. enable management via wireless
- B. connect via wired network
- C. enable Telnet
- D. enable WebAuth SecureWeb
- E. connect on 5-GHz SSID

**Answer:** B

#### NEW QUESTION 103

```
(Cisco Controller) >show network summary
RF-Network Name..... Cisco
Web Mode..... Disable
Secure Web Mode..... Disable
Secure Web Mode Cipher-Option High..... Disable
Secure Web Mode Cipher-Option SSLv2..... Disable
Secure Web Mode RC4 Cipher Preference..... Disable
OCSP..... Disabled
OCSP responder URL.....
Secure Shell (ssh)..... Enable
Telnet..... Disable
Ethernet Multicast Forwarding..... Disable
Ethernet Broadcast Forwarding..... Disable
IPv4 AP Multicast/Broadcast Mode..... Multicast Address : 239.0.1.1
IGMP snooping..... Disabled
IGMP timeout..... 60 seconds
IGMP Query Interval..... 20 seconds
MLD snooping..... Disabled
MLD timeout..... 60 seconds
MLD query interval..... 20 seconds
User Idle Timeout..... 300 seconds
ARP Idle Timeout..... 300 seconds
```

Refer to the exhibit. A customer is using central web authentication with a Cisco 5508 Wireless Controller and Cisco Identity Services Engine. An error occurs when wireless clients are redirected to the hosted splash page. What is causing the client error?

- A. Secure Web Mode is disabled on the WLC.
- B. OCSP is disabled on the WLC.
- C. Management Via Dynamic Interface is disabled on the WLC.
- D. Ethernet Multicast Forwarding is enabled on the WLC.

**Answer:** A

#### NEW QUESTION 107

Which two actions are best for deploying VoWLAN on a wireless network? (Choose two.)

- A. Minimize the use of Class 3 Bluetooth devices.
- B. Minimize the use of analog cameras.
- C. Minimize the use of IP cameras.
- D. Maximize client access by enabling all data rates used by clients.
- E. Maximize client access by enabling only a few high data rates used by clients.



**Answer:** BE

#### NEW QUESTION 111

Which spread spectrum technique uses 11-bit chips to transmit 1 bit of data over a 22-MHz channel?

- A. DSSS
- B. FHSS
- C. OFDM
- D. MIMO
- E. CCK

**Answer:** A

#### NEW QUESTION 114

A network engineer at a retail store needs a wireless deployment that can be easily maintained and verified for PCI compliance. What solution will meet this need with the least work?

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

**Answer:** A

#### NEW QUESTION 115

What are the three primary functions of the Cisco Unified Wireless LWAPP architecture? (Choose three.)

- A. control and management of the CAPWAP
- B. tunneling of VPN clients over the WAN
- C. tunneling of WLAN client traffic to the WLC
- D. collection of 802.1Q trunks
- E. collection of 802.11 data for management
- F. control and management of VTP

**Answer:** ACE

#### NEW QUESTION 117

A customer has completed the installation of an 802.11ac greenfield deployment at their corporate headquarters. They would like to leverage 802.11ac enhanced speeds on the trusted employee WLAN. In order to configure the employee WLAN, what Layer 2 security policies are valid?

- A. WPA2 (TKIP)
- B. WPA(AES)
- C. OPEN
- D. WEP

**Answer:** C

#### NEW QUESTION 118

What is the IEEE name for a group of access points that are connected by using the Ethernet?

- A. ESS
- B. BSS
- C. IBSS
- D. ISS

**Answer:** A

#### NEW QUESTION 121

Which three items do you need to establish a wireless connection to an enterprise wireless network? (Choose three.)

- A. SSID name
- B. RF channel
- C. RF signal
- D. 802.1X/EAP credentials
- E. pre-shared key
- F. web page
- G. WPA/WPA2 settings

**Answer:** ACD

#### NEW QUESTION 122

A customer has asked for the proper port configuration to allow for LAG on a Cisco 2504 Wireless Controller to a Cisco IOS switch. Which EtherChannel mode should be used on the switch to allow for the WLC to connect?

- A. on



- B. auto
- C. desirable
- D. passive
- E. active

**Answer:** A

#### NEW QUESTION 127

Which two algorithms are available in RRM? (Choose two.)

- A. coverage-hole detection
- B. dynamic channel assignment
- C. RSSI normalizer
- D. transmitting channel expander
- E. rogue detection

**Answer:** AB

#### NEW QUESTION 129

Which two statements about beacon frames used by access points are true? (Choose two.)

- A. They contain SSIDs if this feature is enabled.
- B. They provide vendor proprietary information.
- C. They are another name for an associated request.
- D. They are sent in response to a probe frame.
- E. They include ATIM window information for power save operations.

**Answer:** AB

#### NEW QUESTION 132

During Layer 2 intercontroller roaming, which two items change? (Choose two.)

- A. SSID
- B. VLAN
- C. IP address
- D. AP
- E. controller

**Answer:** DE

#### NEW QUESTION 133

A customer has asked for its wireless equipment to be managed as securely as possible. Which three management protocols will provide encrypted access to the equipment? (Choose three.)

- A. Secure Shell
- B. HTTPS
- C. SNMPv3
- D. Telnet
- E. SNMPv2c
- F. HTTP

**Answer:** ABC

#### NEW QUESTION 135

Which two items are needed to discover the IP address of a new Cisco Aironet 1260 autonomous AP that just finished booting? (Choose two.)

- A. username = "cisco" and password = "cisco"
- B. username = "Admin" and password = "Cisco"
- C. username=Cisco and password=Cisco
- D. show int vlan1
- E. show int bvi1
- F. show int gigabitethernet0
- G. show int radio0-802.11n
- H. show int radio1-802.11n

**Answer:** CE

#### NEW QUESTION 137

### WLC Management Interface Configuration

#### Interface Address

VLAN Identifier	10
IP Address	172.30.1.30
Netmask	255.255.255.0
Gateway	172.30.1.2
IPv6 Address	::
Prefix Length	128
IPv6 Gateway	::
Link Local IPv6 Address	fe80::d68c:b5ff:fec3:eef/64

#### Physical Information

The interface is attached to a LAG.

Enable Dynamic AP Management ☒

#### DHCP Information

Primary DHCP Server	172.30.1.20
Secondary DHCP Server	172.30.1.21
DHCP Proxy Mode	Global
Enable DHCP Option 82	<input type="checkbox"/>

### Switchport Configuration

Current configuration : 235 bytes  
!
interface GigabitEthernet0/9
description 5508 Port 1
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1,20,30,40
switchport mode trunk
priority-queue out
mls qos trust dscp
spanning-tree portfast trunk
end

Refer to the exhibit. The wireless engineer has deployed the Cisco 5508 Wireless Controller. The controller is responding on the service port; however, it will not respond on the management interface. Which configuration revision will fix the management interface?

- A. On the switch interface, configure switch(config-if)#switchport trunk allowed vlan add 10.
- B. On the WLC management interface, disable LAG on the management network.
- C. On the switch interface, configure switch(config-if)#switchport trunk allowed vlan 10.
- D. On the WLC management interface, change the VLAN ID to 20.
- E. On the switch interface, configure no spanning-tree portfast trunk.
- F. On WLC Controller > General, disable LAG and reboot.

Answer: A

#### NEW QUESTION 141

What is an MBSSID?

- A. a virtual AP configured on a physical AP that share a single physical device, which is one half-duplex radio
- B. a set of physical APs configured in a BSA to form cells that are controlled by a single controller
- C. the group of clients that are allowed to gain access to one or more SSIDs configured in an AP
- D. the identified overlap area between two cells, which identifies the clients that are operating in that area at any given time

Answer: A

#### NEW QUESTION 142

Which of the following are three functions of Cisco RRM? (Choose three.)

- A. TPC
- B. intercontroller roaming
- C. dynamic channel assignment
- D. intracontroller roaming
- E. coverage hole detection

Answer: ACE

#### NEW QUESTION 147

Which two statements about the requirements to configure inter-controller roaming are true? (Choose two.)

- A. The same mobility domain names are configured across controllers.
- B. The same RF group names are configured across controllers.
- C. The same controller hardware version is configured across controllers.
- D. The same AP manager interface is configured across controllers.
- E. The same virtual interface is configured across controllers.
- F. The same controller software version is configured across controllers.

Answer: AE

#### NEW QUESTION 150



Refer to the exhibit. The site in this AirMagnet Survey heat map is ready for which level of service?

- A. data
- B. voice
- C. location
- D. RFID

**Answer: A**

#### NEW QUESTION 154

An engineer assists a user in configuring an Android device for authentication to an IEEE 802.1x EAP WLAN with PEAPv1. The Phase 2 authentication should be configured as which option?

- A. LEAP
- B. MSCHAPv2
- C. TLS
- D. TTLS

**Answer: B**

#### NEW QUESTION 159

An engineer is trying to convert the IP Address of the wireless controller to amend DHCP Option 43 configuration on the DHCP server. What mathematical format must the IP address of the Wireless controller be converted to in order to function correctly?

- A. Hexadecimal
- B. Binary
- C. Decimal
- D. ASCII

**Answer: A**

#### NEW QUESTION 160

Which IEEE 802.11n client feature can combine the signal from multiple antennas and radio chains to improve SNR?

- A. channel aggregation
- B. spatial multiplexing
- C. MAC layer efficiency
- D. TxBF
- E. MRC
- F. MCS

**Answer: E**

#### NEW QUESTION 162

What is the difference between the IEEE, the WiFi Alliance, and the FCC, ETSI, and TELEC?

- A. The IEEE and FCC are responsible for the standards that apply to wireless network
- B. The WiFi Alliance, ETSI, and TELEC are the governmental agencies that regulate compliance with local standards.
- C. The IEEE is responsible for Layer 1 and Layer 2 protocol
- D. The WiFi Alliance is responsible for interoperability testin
- E. The FCC, ETSI, and TELEC are responsible for radio frequency and transmission power-level regulations and standards in the U.S., Europe, and Japan.

- F. The IEEE is responsible for Layer 1 and Layer 2 protocol
- G. The FCC, ETSI, and TELEC are responsible for interoperability testing and complianc
- H. The WiFi Alliance is responsible for radio frequency and transmission power-level regulations and standards on a global basis.
- I. The IEEE and FCC are responsible for the Layer 3 protocol support and frequency and power-level regulations in the United State
- J. ETSI and TELEC are responsible for frequency and power-level regulations in Europe and Japa
- K. The WiFi Alliance is responsible to interoperability testing.

**Answer:** B

#### NEW QUESTION 167

An engineer is trying to determine from the controller CLI whether or not Telnet is enabled on the wireless controller. Which command can be entered to display this information?

- A. show network summary
- B. show aaa auth
- C. show radius summary
- D. show ldap statistics

**Answer:** A

#### NEW QUESTION 168

An engineer is conducting an active survey for indoor coverage in a warehouse. The warehouse has long aisles with racks that extend to the ceiling. Which antenna type has a radiation pattern that is suited to provide coverage in each aisle?

- A. Yagi
- B. patch
- C. omnidirectional
- D. dipole

**Answer:** B

#### NEW QUESTION 171

A wireless engineer has been asked to plan a deployment covering the aisles of a warehouse with optimal coverage while bleeding RF across aisles. Which antenna type provides the necessary coverage?

- A. patch
- B. omnidirectional
- C. Yagi
- D. parabolic dish

**Answer:** A

#### NEW QUESTION 175

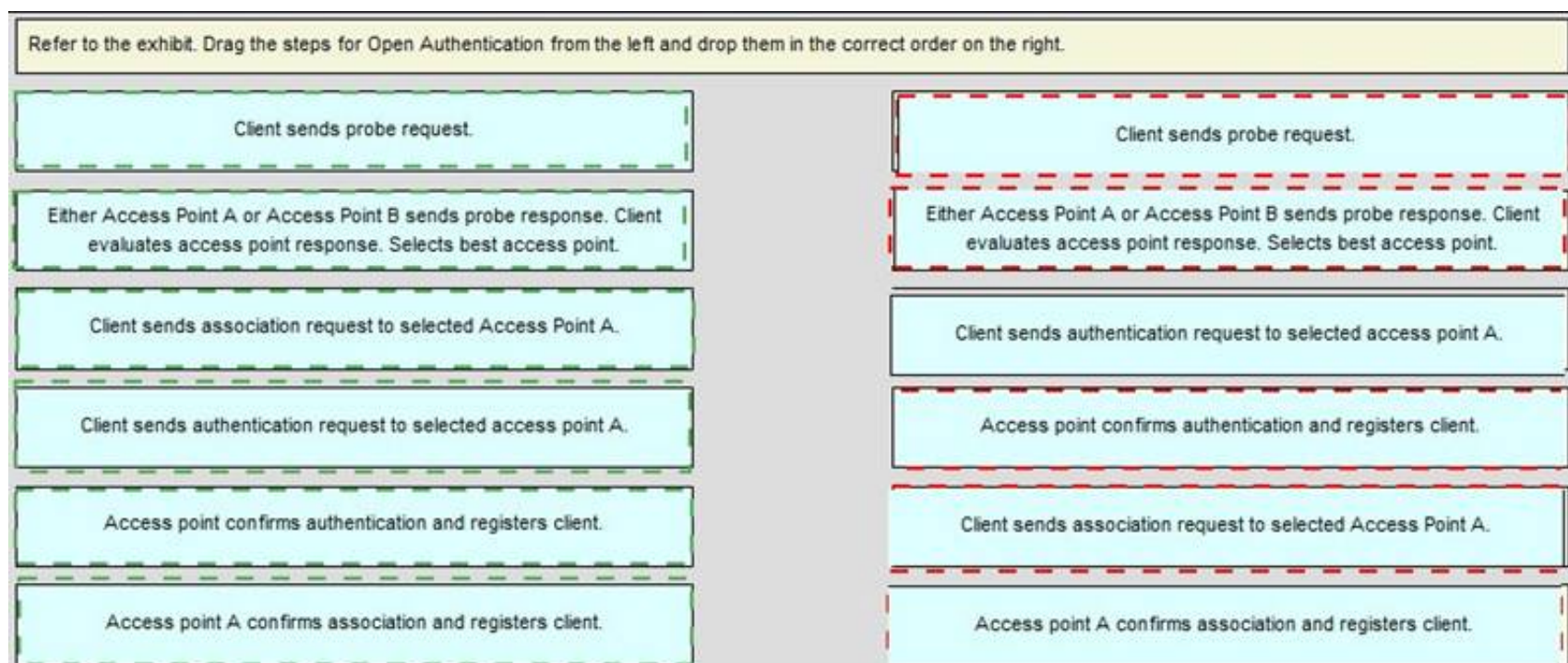
Refer to the exhibit. Drag the steps for Open Authentication from the left and drop them in the correct order on the right.

Client sends probe request.	Target
Either Access Point A or Access Point B sends probe response. Client evaluates access point response. Selects best access point.	Target
Client sends association request to selected Access Point A.	Target
Client sends authentication request to selected access point A.	Target
Access point confirms authentication and registers client.	Target
Access point A confirms association and registers client.	Target

**Answer:**

**Explanation:**





#### NEW QUESTION 180

During an upgrade, the wireless infrastructure has seen a few access points join and then drop off the network. After further investigation, it appears the access points may have an IOS code version that is causing issues. Where in the controller is this information found?

- A. GUI > Wireless > Access Point > General
- B. CLI > show ap image all
- C. GUI > Monitor > Software Version
- D. CLI > show sysinfo

**Answer: A**

#### NEW QUESTION 181

Which two Cisco Unified Wireless Network capabilities use information that is provided by Radio Resource Management neighbor messages in version 7.0 MR1? (Choose two.)

- A. aggressive load balancing
- B. dynamic channel assignment
- C. hybrid remote edge access point
- D. inter-controller mobility (that is, mobility groups)
- E. rogue AP classification

**Answer: BE**

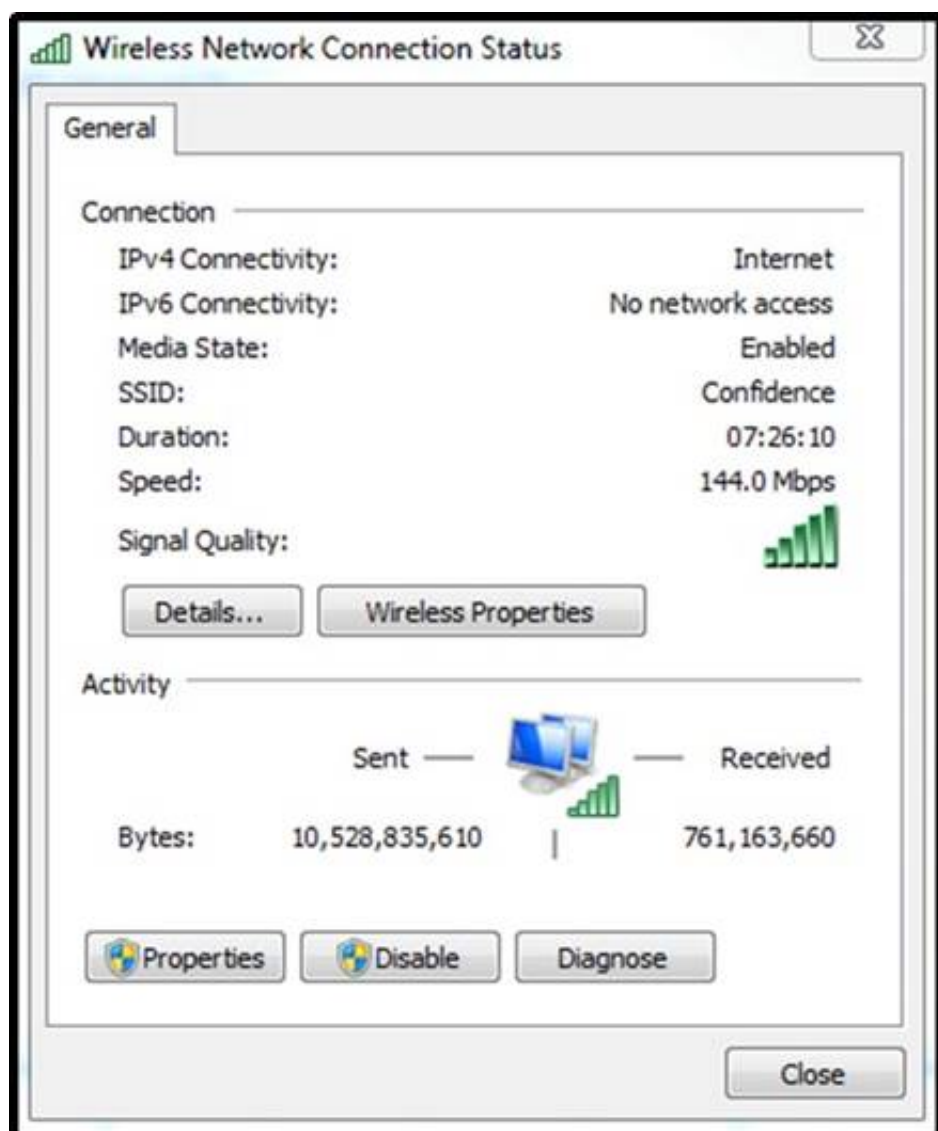
#### NEW QUESTION 185

What protocol is used to determine the best pathway back to a root access point?

- A. CCKM
- B. WNMP
- C. AWPP
- D. LWAP

**Answer: C**

#### NEW QUESTION 187



Refer to the exhibit. A customer is determining whether a Windows 7 laptop is operating on the correct IEEE 802.11 standard. Which standard is being used by the laptop in the exhibit?

- A. 802.11b
- B. 802.11g
- C. 802.11n
- D. 802.11p

**Answer: C**

#### NEW QUESTION 189

Which three options are limitations when configuring basic security on an autonomous AP when using the express security page setup? (Choose three.)

- A. You need multiple SSIDs.
- B. Delete all the SSIDs.
- C. Edit the SSIDs.
- D. Use multiple authentication servers.
- E. Use the same SSID on both radios.
- F. Use a single SSID on a single radio.

**Answer: CDE**

#### NEW QUESTION 194

The network administrator receives complaints of slow wireless network performance and performs a sniffer trace of the wireless network in preparation for migration to 802.11n. The sample capture shows frames that contains AP beacons with NonERP\_Present bit set to 1 and frames with RTS/CTS.

Which two conclusions can be interpreted from these frames? (Choose two.)

- A. The network is performing slowly because 802.11n clients are already mixed with 802.11g clients.
- B. The network is performing slowly because 802.11b clients still exist in the network.
- C. The network is performing slowly because a wireless client is incorrectly configured, which results in RF interference.
- D. Possible 802.11b wireless clients are located only in the AP cell radius where the sniffer capture was performed.
- E. Possible 802.11b wireless clients could be located anywhere in the wireless network.

**Answer: BE**

#### NEW QUESTION 197

Refer to the exhibit. Drag the MAC addresses on the left that will allow the wireless station Host A to send a frame through a controller based AP to the wired station Host B and drop them in the correct order on the right. Not all options are used.

controller	Target
Host A	Target
AP	Target
Empty	Target
Host B	

**Answer:**

**Explanation:**

Refer to the exhibit. Drag the MAC addresses on the left that will allow the wireless station Host A to send a frame through a controller based AP to the wired station Host B and drop them in the correct order on the right. Not all options are used.

controller	AP
Host A	Host A
AP	Host B
Empty	Empty
Host B	

#### NEW QUESTION 200

What is the approximate time difference for a client to perform an intracontroller roam compared to an intercontroller roam?

- A. 1 ms
- B. 10 ms
- C. 20 ms
- D. 30 ms

**Answer:** B

#### NEW QUESTION 204

In the current RF environment, the noise floor is -95 dBm. A tablet needs an SNR of 25 dB to transmit at the required speed. What must the RSSI cell edge be to meet the required SNR?

- A. -120 dBm
- B. -90 dBm
- C. -70 dBm
- D. -60 dBm
- E. -50 dBm

**Answer:** C

#### NEW QUESTION 206

What is the equivalent of 26 dBm in milliwatts?

- A. 4 mW
- B. 40 mW
- C. 100 mW
- D. 400 mW
- E. 1000 mW

**Answer:** D

#### NEW QUESTION 211

How does an LWAP receive a configuration file?

- A. It is configured manually.
- B. It receives a configuration from the controller.
- C. It automatically ships with a configuration.
- D. It receives a configuration from a TFTP server.

**Answer:** B



**Explanation:** Topic 2, Exam Bank B

### NEW QUESTION 212

Which single tool helps to troubleshoot client-related issues in a WLAN?

- A. The show and debug commands on the controller.
- B. The show commands on the AP.
- C. Client templates on the Cisco WCS.
- D. Client troubleshooting on the Cisco WCS.

**Answer:** D

### NEW QUESTION 213

Cisco WLCs running version 7.0 can be enabled for CleanAir functionality by using an AQI rating from 1 to 100. Event-driven RRM can take immediate action on AQI levels based on three sensitivity thresholds (Low, Medium, High), which are configurable in the web-based GUI. The network administrator must understand what AQI value is set using these sensitivity thresholds in version 7.0. Drag the AQI values on the left and drop them on the threshold name they belong to on the right.

20	Low
35	Medium
40	High
45	
50	
60	
70	

**Answer:**

**Explanation:**

Cisco WLCs running version 7.0 can be enabled for CleanAir functionality by using an AQI rating from 1 to 100. Event-driven RRM can take immediate action on AQI levels based on three sensitivity thresholds (Low, Medium, High), which are configurable in the web-based GUI. The network administrator must understand what AQI value is set using these sensitivity thresholds in version 7.0. Drag the AQI values on the left and drop them on the threshold name they belong to on the right.

20	35
35	50
40	60
45	
50	
60	
70	

### NEW QUESTION 217

Which statement correctly describes the procedure for a lightweight AP to successfully establish a connection to a controller?

- A. The AP authenticates the received Cisco WLC certificate as valid.
- B. The AP then sends its certificate to the controller.
- C. The AP sends its certificate to the controller.
- D. The AP then authenticates the received Cisco WLC certificate as valid.
- E. The AP sends its certificate to the RADIUS server.
- F. The AP then authenticates the controller certificate as valid.
- G. The AP sends its certificate to the RADIUS server.
- H. The AP then authenticates the RADIUS certificate as valid.
- I. The AP authenticates the received RADIUS server certificate as valid.
- J. The AP then sends its certificate to the RADIUS server.
- K. The AP authenticates the received RADIUS server certificate as valid.
- L. The AP then sends its certificate to the controller.

**Answer:** B

### NEW QUESTION 220



Which command path correctly describes how to access and troubleshoot clients with Cisco WCS version 7.0?

- A. Tools > Clients > select displayed client's MAC address
- B. Tools > Clients > enter client's MAC address
- C. Monitor > Clients > click displayed client's MAC address
- D. Monitor > Clients > enter client's MAC address

**Answer:** C

#### NEW QUESTION 221

Which user group has the ability to configure all features of the Cisco WCS except the user accounts and passwords?

- A. Admin
- B. SuperUser
- C. Root
- D. Supervisor

**Answer:** A

#### NEW QUESTION 226

Which module does the Cisco AnyConnect Secure Mobility client integrate into the AnyConnect client package for access to both wired and wireless networks?

- A. Network Access Manager
- B. Telemetry
- C. Web Security
- D. DART

**Answer:** A

#### NEW QUESTION 228

Drag the 802.11 functional responsibility in the Cisco "Split MAC" design from the left and drop it on a platform on the right:

802.11 functional responsibility	Platform
802.11 association and re-association	Access Point
beacons	
client authentication	
encryption / decryption	
RF management	Controller
transmission and buffering of frames	

**Answer:**

**Explanation:**

Drag the 802.11 functional responsibility in the Cisco "Split MAC" design from the left and drop it on a platform on the right:

802.11 functional responsibility	Platform
802.11 association and re-association	Access Point
beacons	
client authentication	
encryption / decryption	
transmission and buffering of frames	
RF management	Controller

NEW QUESTION 231

An AP was reset while working on the correct association to a Cisco WCS version 7.0. Which item was cleared during the reset?

- A. static IP address
- B. the location ID of the AP
- C. WLC primary, secondary, tertiary
- D. AP name
- E. certificate
- F. Nothing was cleared.

Answer: F

NEW QUESTION 232

In a typical wireless network using WPA, WPA2 or VPN, why is it still possible for a rogue client to launch a DOS attack?

- A. WPA and WPA2 are not considered strong encryption algorithms and are easily cracked.
- B. 802.11 management frames are easily compromised.
- C. Cisco Compatible Extensions v5 are required with WPA, WPA2, or VPN to keep rogues from launching attacks in the wireless network.
- D. The message integrity check frames are never encrypted or authenticated, which allows rogues to spoof clients.

Answer: B

NEW QUESTION 237

Drag the correct visual description from left to the matching Windows 7 wireless client description on the right.

three boxes with gold shield

three boxes without gold shield

three boxes with gold star

three boxes without gold star

five bars with shield

five bars without shield

five bars with gold star

five bars without gold star

Open BSS

Secure BSS

Open IBSS

Secure IBSS

Answer:

Explanation:

Drag the correct visual description from left to the matching Windows 7 wireless client description on the right.

three boxes with gold shield

three boxes without gold shield

three boxes with gold star

three boxes without gold star

five bars with shield

five bars without shield

five bars with gold star

five bars without gold star

five bars with shield

five bars without shield

three boxes with gold shield

three boxes without gold shield

NEW QUESTION 242

When adding a controller to manage through Cisco WCS, which address type is used and which SNMP function does the Cisco WCS perform?

- A. The controller is managed through its MAC address and the Cisco WCS acts as a SNMP TRAP authenticator.
- B. The IP address of the controller is used and the Cisco WCS acts as a SNMP TRAP receiver.
- C. The controller is managed through its MAC address and the Cisco WCS acts as a SNMP agent.
- D. The controller connects through its MAC address to the Cisco WCS and the Cisco WCS uses the SNMP to manage the controller for all configured SNMP parameters.

**Answer:** B

#### NEW QUESTION 246

What is a risk when initiating the containment of a rogue AP?

- A. disassociating clients of valid access points that are operated by a neighboring organization
- B. disrupting transmission of neighboring AP clients
- C. breaking the radio of the containing AP
- D. breaking the rogue client radio or its firmware

**Answer:** A

#### NEW QUESTION 247

Which two statements about the Cisco WLC and AP code upgrade when 7.0 is running are true? (Choose two.)

- A. The AP can download and run new code only after a Cisco WLC reboot causes the AP discovery and join.
- B. The AP can download new code before the Cisco WLC reboot, but only if the AP is configured the CLI via SSH.
- C. The AP can download new code before Cisco WLC reboot if it is configuring the Cisco WLC directly using the GUI via HTTP or HTTPS.
- D. The Cisco WLC defaults to booting newer code, but it can boot older backup code only from the CLI configuration.
- E. The Cisco WLC can boot either primary or backup code configured from the GUI.
- F. The Cisco WLC can download only a single code at a time for reboot.

**Answer:** CE

#### NEW QUESTION 250

ACisco Aironet 1260 AP is unable to join a Cisco 2500 Series WLC that is connected through a Layer 2 switch. Which three options help to verify the wireless network operation and locate a possible issue? (Choose three.)

- A. Verify status of GUI Wireless > Country
- B. Verify status of GUI Wireless > Timers
- C. Verify status of GUI WLANs > ID > Advanced
- D. CLI debug of dot11
- E. CLI debug of DHCP
- F. Verify Cisco WLC license
- G. Verify Cisco WLC model

**Answer:** AEF

#### NEW QUESTION 253

The introduction of consumer phones and tablets into enterprise WLANs can have an impact on 802.11a/b/g/n deployments. The Apple iPhone 4 and iPad 2 are very common examples.

Which statement best describes the abilities of these devices?

- A. The Apple iPhone 4 and the iPad 2 use 2.4 GHz and 5 GH
- B. The Apple iPhone 4 uses only one spatial stream and the iPad 2 uses two spatial streams.
- C. The Apple iPhone 4 uses only 2.4 GHz and the iPad 2 only uses 5 GH
- D. The Apple iPhone 4 uses only one spatial stream and the iPad 2 uses two spatial streams.
- E. The Apple iPhone 4 uses 2.4 GHz and the iPad 2 uses 2.4 GHz or 5 GH
- F. The Apple iPhone 4 only uses one spatial stream and the iPad 2 uses two spatial streams.
- G. The Apple iPhone 4 uses 2.4 GHz and the iPad 2 uses 2.4 GHz or 5 GH
- H. The Apple iPhone 4 and the iPad 2 use only one spatial stream.

**Answer:** D

#### NEW QUESTION 257

You have an Apple IOS iPhone4 that is used on your home Wi-Fi network and a personal laptop that is used on your work's enterprise wireless network. At your office, you are unable to see the enterprise wireless network on your iPhone4.

What is the most likely cause of this issue?

- A. WPA2 CPU intensive encryption is not supported on the client.
- B. WPA2 must be enabled on the client.
- C. A new profile must be created on the client.
- D. Wi-Fi must be enabled on the client.
- E. The enterprise is 2.4 GHz only.
- F. The enterprise is 5 GHz only.
- G. The RF channel must be adjusted on the client.

**Answer:** F

#### NEW QUESTION 261

Which statement about customization of a web page that is used on a WLC to authorize guest users is true?

- A. The administrator can use either a modified internal login page or the customized web page.
- B. The administrator can use only the internal login page, and only the organization logo can be changed.
- C. The administrator can use only the internal login page with a customized logo, headline, and message.
- D. The administrator can use only the customized web page that is uploaded to a WLC.



**Answer:** A

#### NEW QUESTION 262

Which CLI command is used on a Cisco WLC to troubleshoot mobility, rogue detection, and load-balancing events?

- A. debug dot11
- B. debug capwap all
- C. show dot11 details
- D. show capwap details

**Answer:** A

#### NEW QUESTION 266

A lightweight AP has been deployed in local mode in a network that consists of 10 wireless LAN controllers in a single mobility group. The AP has been configured to use primary, secondary, and tertiary Cisco WLCs. Due to a major power failure, all those Cisco WLCs are unavailable. Which step does the AP take next?

- A. The AP reboots and repeatedly attempts to join the configured primary, secondary, and tertiary Cisco WLCs in that order.
- B. The process continues until one of the configured Cisco WLCs is available.
- C. The AP attempts to join a Cisco WLC configured as a master controller.
- D. The AP attempts to join the Cisco WLC that has the greatest capacity available.
- E. The AP state transitions to AP Fallback Mode and continues to provide limited WLAN services (that is, no new client authentications) until a Cisco WLC is available.

**Answer:** B

#### NEW QUESTION 270

What is Cisco WCS Navigator?

- A. a single point of management for multiple Cisco WCS servers
- B. a server for storing and reviewing Cisco Spectrum Expert station data
- C. a server for storing the location data of wireless clients
- D. a GUI for displaying the data of Cisco CleanAir APs, aligned with an uploaded map
- E. a single point of management for multiple Cisco WLC systems

**Answer:** A

#### NEW QUESTION 274

An AP has been configured for personal wireless access to the Internet using appropriate security and cloaking. Which two items should be configured on the wireless client? (Choose two.)

- A. RF channel
- B. BSS
- C. PSK
- D. 802.1X/EAP
- E. broadcast SSID
- F. manual SSID
- G. IBSS

**Answer:** CF

#### NEW QUESTION 276

Which Extensible Authentication Protocol types are supported by the Cisco Unified Wireless Network?

- A. EAP-TLS, PEAP-MSCHAPv2, and PEAP-GTC only
- B. LEAP and EAP-FAST only
- C. EAP-TLS, PEAP-MSCHAPv2, PEAP-GTC, LEAP, and EAP-FAST only
- D. any EAP supported by the RADIUS authentication server

**Answer:** D

#### NEW QUESTION 277

How are application-specific devices differentiated from laptop computers in the way they support Cisco Compatible Extensions?

- A. ASDs are required to support only Cisco Compatible Extensions v1 and v2 features.
- B. Laptops must support all Cisco Compatible Extensions features.
- C. ASDs are required to support only Cisco Compatible Extensions v5 management features, while laptops are required to support optional features.
- D. Several features that are required for laptops are not required for ASDs.
- E. There is no differentiation.
- F. ASDs and laptops must both support the same Cisco Compatible Extensions features.

**Answer:** C

#### NEW QUESTION 282

In a network with a deployed Cisco WLC, which two entities must be configured with the shared secret key for 802.1X authentication? (Choose two.)



- A. WLC
- B. RADIUS server
- C. AP
- D. supplicant
- E. wireless client

**Answer:** AB

#### NEW QUESTION 283

Which method is used to shield the client from class 3 management attacks?

- A. client MFP
- B. WEP
- C. WPA
- D. client protection suite
- E. 802.1X

**Answer:** A

#### NEW QUESTION 285

What path displays the current maps within the WCS version 7 GUI?

- A. Monitor > Maps
- B. Reports > Maps
- C. Services > Maps
- D. Administration > Maps
- E. Configure > Maps
- F. Tools > Maps

**Answer:** A

#### NEW QUESTION 287

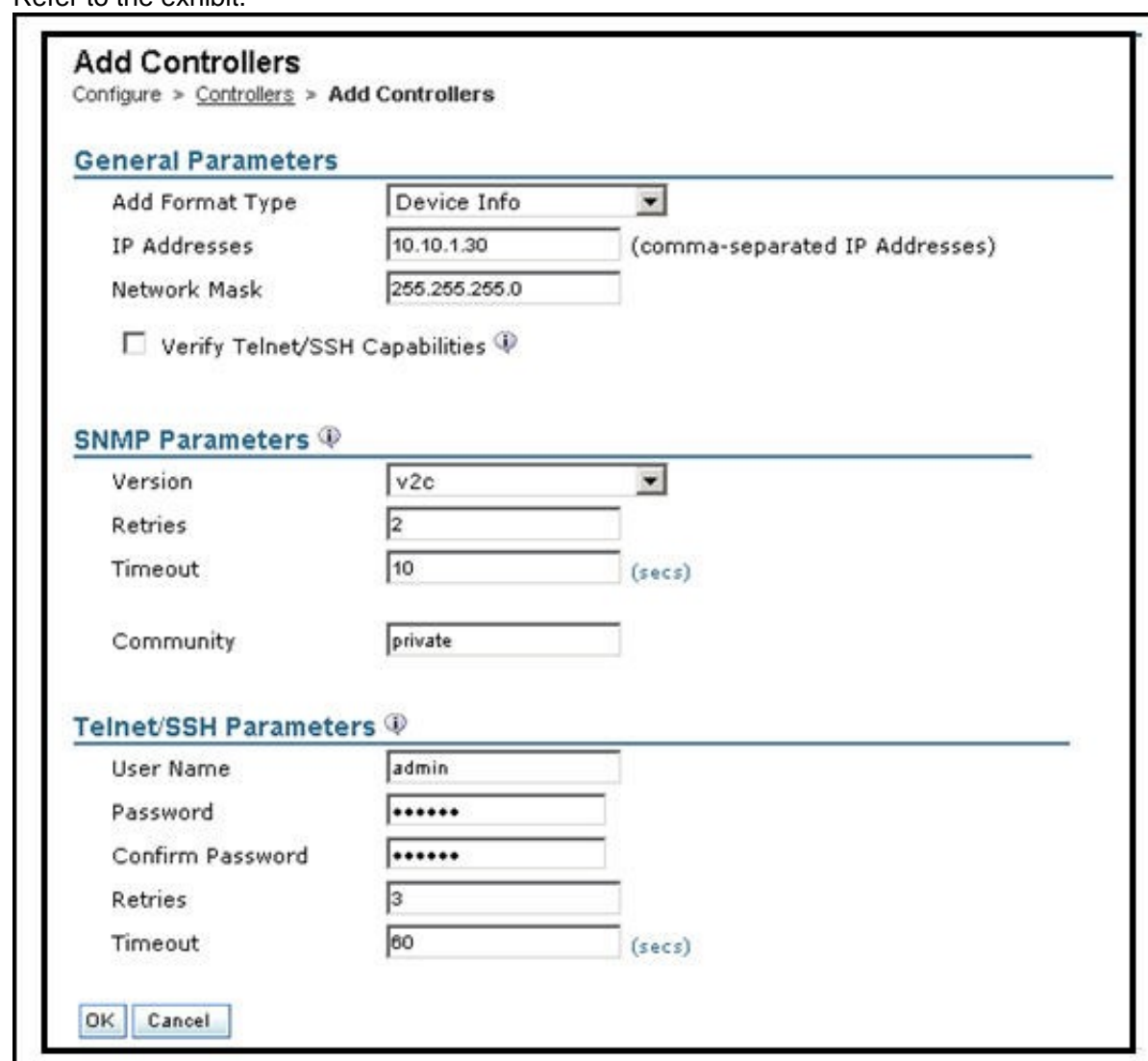
When the enterprise-based authentication method is used for WPA2, a bidirectional handshake exchange occurs between the client and the authenticator. Which five options are results of that exchange being used on a controller-based network? (Choose five.)

- A. a bidirectional exchange of a nonce used for key generation
- B. binding of a Pairwise Master Key at the client and the controller
- C. creation of the Pairwise Transient Key
- D. distribution of the Group Transient Key
- E. distribution of the Pairwise Master key for caching at the access point
- F. proof that each side is alive

**Answer:** ABCDF

#### NEW QUESTION 289

Refer to the exhibit.



How do improperly set Telnet/SSH parameters effect the configuration of a controller with Cisco WCS?

- A. The CLI and GUI management of the controller both fail because Cisco WCS checks these credentials before opening a session.
- B. The Telnet/SSH username must have sufficient privileges to execute commands in CLI templates.
- C. The GUI management of the controller fails because the Cisco WCS uses the Telnet/SSH parameters to login to the controller.
- D. The controller remains configured in the Cisco WCS, but no management is possible through GUI from other client browsers.

**Answer:** B

#### NEW QUESTION 292

Which protocol helps the administrator to determine whether a detected rogue AP is in the network of the organization?

- A. RLDP
- B. RCP
- C. RDP
- D. RAPP

**Answer:** A

#### NEW QUESTION 294

An 802.11g network is experiencing intermittent signal degradation and Spectrum Analyzer is being used to try and locate the problem. What two interferers would likely be identified? (Choose two.)

- A. multiple cell phones
- B. microwave oven
- C. FM Radio
- D. cordless phone
- E. document scanner

**Answer:** BD

#### NEW QUESTION 296

Which two features are available in the Cisco WCS Plus license over the base license? (Choose two.)

- A. ad hoc rogue detection
- B. high availability between two Cisco WCS stations
- C. mobility service engine management
- D. auto discovery and containment or notification of rogue APs
- E. client location to the nearest AP

**Answer:** BC

#### NEW QUESTION 299

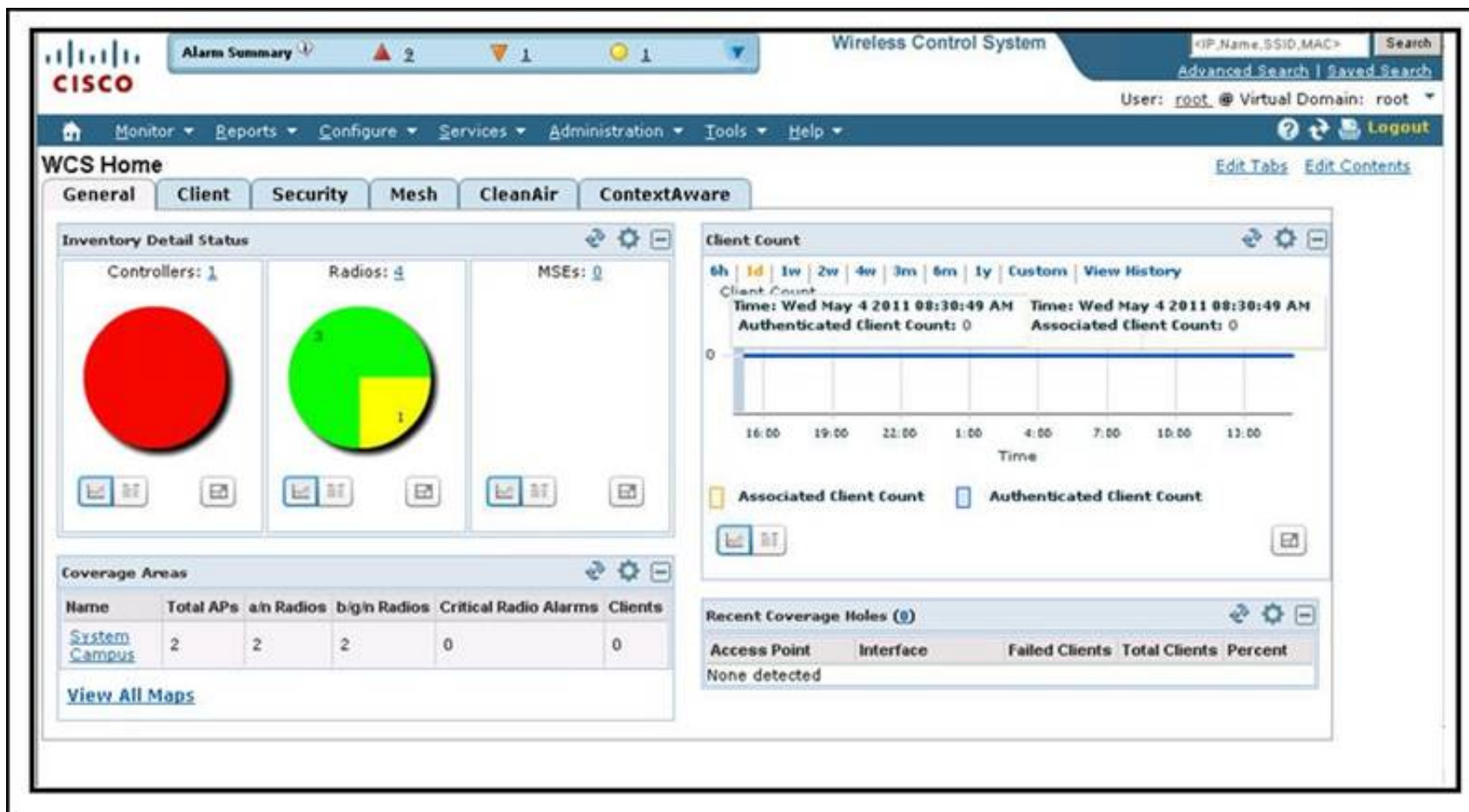
Which open standard defines the combination of Extensible Authentication Protocol with Advanced Encryption Standard for providing strong wireless LAN client security?

- A. IEEE 802.1X
- B. IEEE 802.11i
- C. WEP
- D. WPA
- E. WPA2

**Answer:** B

#### NEW QUESTION 303

Refer to the exhibit.



Which GUI item do you click to configure maps with APs in Cisco WCS?

- A. Configure
- B. Client
- C. CleanAir
- D. Services
- E. Administration
- F. Monitor

Answer: F

#### NEW QUESTION 305

A network engineer in the GUI of WCS version 7 wants to add an access point to a map. Where can this command be found within the drop-down menu?

- A. Monitor > Maps
- B. Reports > Maps
- C. Monitor > Network Summary
- D. Configure > Maps

Answer: A

#### NEW QUESTION 307

When using the CLI command `eping`, configured for auto-anchor mobility wireless guest access, which type of packet is tested?

- A. data packets
- B. mobility unencrypted packets
- C. mobility encrypted packets
- D. SNMP control packets
- E. NTP control packets

Answer: A

#### NEW QUESTION 309

When a wireless guest network is implemented using auto-anchor mobility in a controller-based wireless network, which controller is responsible for a guest client's IP address and their security configuration?

- A. any controller that supports the same VLAN
- B. foreign controller
- C. anchor controller
- D. master controller
- E. RF group master controller

Answer: C

#### NEW QUESTION 310

Which two actions would you use to begin to troubleshoot an access point that fails to join a wireless LAN controller successfully? (Choose two.)

- A. SSH to the AP.
- B. SSH to the Cisco WCS.
- C. SSH to the Cisco WLC.
- D. Issue the Cisco WLC command `debug capwap events enable`

E. Issue the Cisco WLC command show capwap events

**Answer:** CD

#### NEW QUESTION 311

Which Cisco WLC command family can help to troubleshoot communication between an AP and the WLC?

- A. (Cisco Controller) >debug capwap
- B. (Cisco Controller) >debug ap
- C. (Cisco Controller) >debug cac
- D. (Cisco Controller) >debug dot11

**Answer:** A

#### NEW QUESTION 313

You are about to use a hotel's guest wireless services using a wireless laptop. Which three items do you need to establish a wireless connection? (Choose three.)

- A. SSID name
- B. RF channel
- C. RF signal
- D. 802.1X/EAP credentials
- E. pre-shared key
- F. web page
- G. WPA/WPA2 settings

**Answer:** ACF

#### NEW QUESTION 318

Refer to the exhibit.



Which option must be chosen if only the WPA is needed?

- A. WPA+WPA2
- B. Static-WEP + 802.1X
- C. 802.1X
- D. CKIP

**Answer:** A

#### NEW QUESTION 321

To implement a more secure means of communication for voice and data, what technology successfully resists interference by utilizing a wider bandwidth than needed for the transmitting signal?

- A. Spread Spectrum
- B. Microwave
- C. Extended U-NII2
- D. ISM Bands

**Answer:** A

#### NEW QUESTION 323

Which Cisco AnyConnect module provides wireless connectivity?

- A. telemetry
- B. web security
- C. VPN
- D. NAM
- E. DART
- F. posture
- G. CSSC



Answer: D

#### NEW QUESTION 326

What is the maximum number of lightweight APs that can be supported from a single Cisco WCS Navigator management console with Cisco WCS and Cisco WLC running version 7.0 code?

- A. 10,000
- B. 20,000
- C. 25,000
- D. 30,000
- E. 60,000

Answer: D

#### NEW QUESTION 330

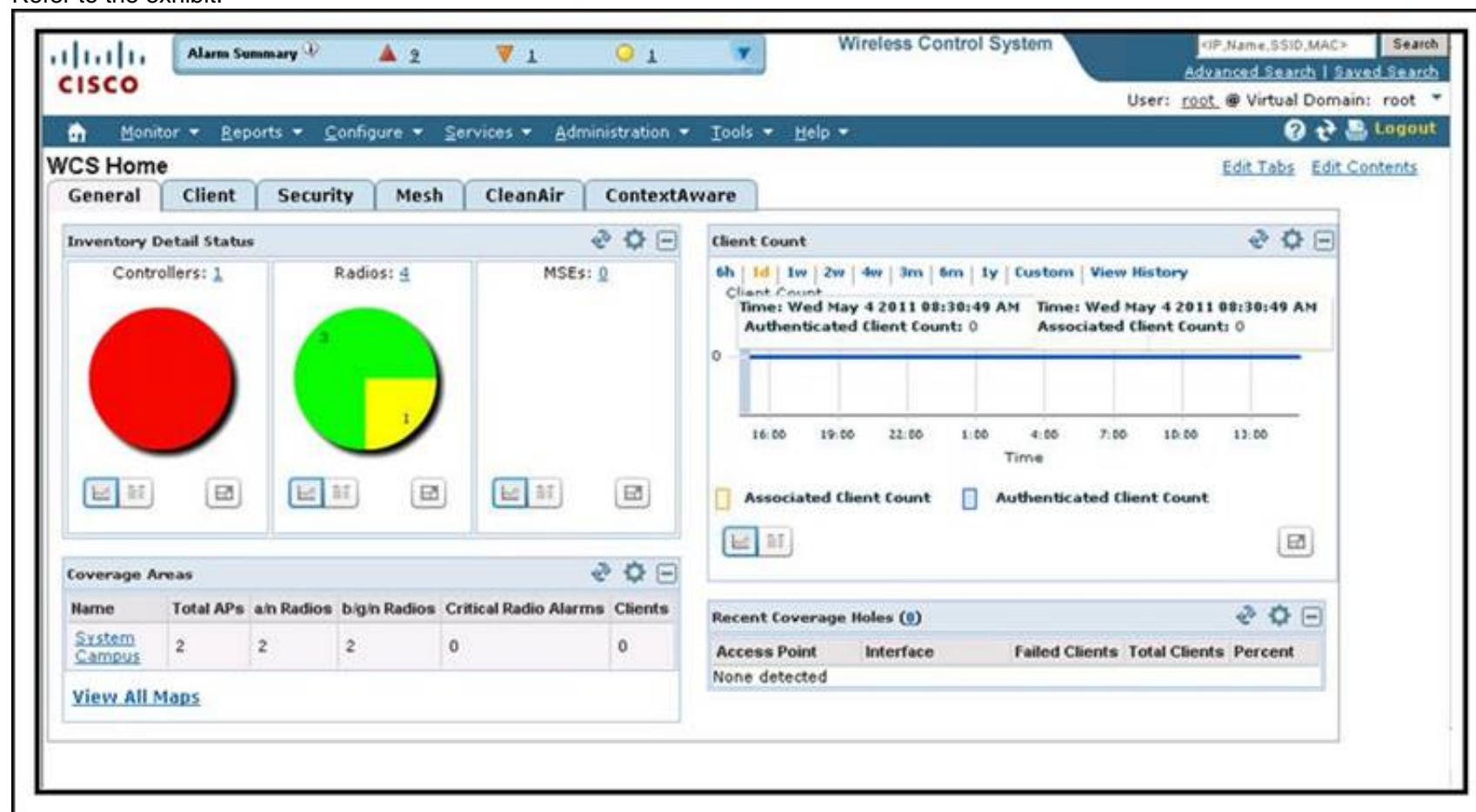
Which encryption algorithm does WPA use?

- A. RC4
- B. DES
- C. AES
- D. DH5

Answer: A

#### NEW QUESTION 333

Refer to the exhibit.



If Cisco WCS version 7.0 needs to have APs added, relocated, or removed on a respective map, which menu leads to the correct location to make that adjustment?

- A. Security
- B. Monitor
- C. Configure
- D. Services
- E. Administration
- F. Tools

Answer: B

#### NEW QUESTION 336

Which type of management tasks can be completed on a Cisco WLC remotely from a wireless client?

- A. All management and configuration tasks can be performed from a wireless client except for using debug commands.
- B. In the default configuration, no management or configuration is possible through the GUI or CLI on the Cisco WLC.
- C. The default configuration of the Cisco WLC allows only CLI access and then only the use of show commands, so no configuration is possible.
- D. All management and configuration tasks, except uploads from and downloads to the Cisco WLC, are permitted.

Answer: B

#### NEW QUESTION 341

Which method of encryption does the 802.11i standard use?

- A. AES/CCMP
- B. AES/ECB
- C. AES/OCB
- D. TKIP
- E. both AES/ECB and AES/CCMP

**Answer:** A

#### NEW QUESTION 345

Which official port should be used when configuring external RADIUS authentication on a Cisco WLC version 7.0?

- A. 49
- B. 1645
- C. 1646
- D. 1812
- E. 1813

**Answer:** D

#### NEW QUESTION 348

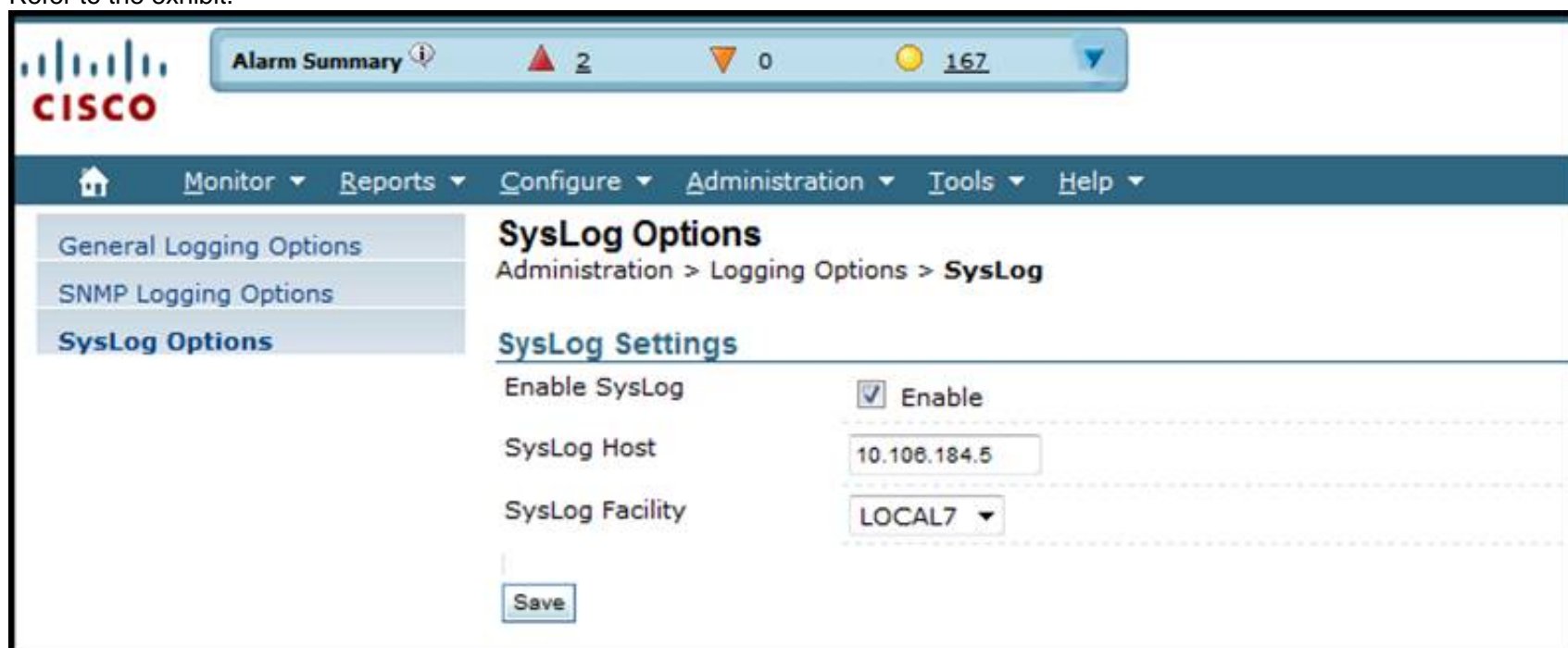
You are configuring an IP address on an autonomous access point. Which interface do you use to configure the IP address?

- A. BVI1
- B. FastEthernet 0
- C. Dot11Radio0
- D. VLAN 1

**Answer:** A

#### NEW QUESTION 351

Refer to the exhibit.



Which syslog facility option is shown?

- A. an information field, which is added to every message that comes from the WLC
- B. a security feature, which is set on the syslog server
- C. the type of syslog server
- D. the Cisco WLC identifier for this syslog server

**Answer:** A

#### NEW QUESTION 354

The wireless network is using controller-based APs and version 7.0 MR1. The APs appear to be connected properly to the controllers. A wireless user near one of the APs reports that they are unable to connect to the network with their pre-shared key.

Which option shows the GUI path where you can check the connection status of that client?

- A. WLANs > WLAN\_ID > Advanced
- B. Security > Clients
- C. Security > Advanced > Clients
- D. Monitor > Clients
- E. Wireless > 802.11b/g/n > clients

**Answer:** D

#### NEW QUESTION 358

Drag the Cisco WCS report from the left and drop it on the category it reports on to the right.

Executive Summary	CleanAir
Configuration Audit	Devices
Inventory	Compliance
Security Risk Interferers	Network Summary

Answer:

Explanation:

Drag the Cisco WCS report from the left and drop it on the category it reports on to the right.

Executive Summary	Security Risk Interferers
Configuration Audit	Inventory
Inventory	Configuration Audit
Security Risk Interferers	Executive Summary

#### NEW QUESTION 361

Strong security is required, but a centralized RADIUS authenticator has not been implemented. Which two steps must you take to provide maximum security when using a pre-shared key? (Choose two.)

- A. Change the TKIP on a weekly basis.
- B. Use a key that includes mixed-case letters, numbers, and symbols with a length greater than 10 characters.
- C. Use only with WPA and WPA2, following proper strong key guidelines.
- D. Use the longest possible WEP key in your security policy.

Answer: BC

#### NEW QUESTION 362

What are the interface statuses of a lightweight AP working in rogue-detection mode?

- A. radios turned off, Ethernet interface up
- B. radios and Ethernet interfaces up
- C. radios turned on, Ethernet interface shut down
- D. radios turned on, Ethernet interface status controlled by Cisco WLC

Answer: A

#### NEW QUESTION 364

When working with alarms in Cisco WCS version 7.0, several actions can be performed on respective alarms. Common actions include "Assign to me," "Unassign," or "Email Notification." However, three other action types provide similar, but important differences. Drag the alarm action names from the left and drop them on the correct corresponding definitions on the right.

Acknowledge	Remove from Alarm Summary. Allow alarm to show again. Remove alarm from database
Delete	Remove from Alarm Summary. Allow alarm to show again. Keep alarm in database for up to 30 days.
Clear	Remove from Alarm Summary. Prevent alarm from showing again. Keep alarm in database.

Answer:

Explanation:



When working with alarms in Cisco WCS version 7.0, several actions can be performed on respective alarms. Common actions include "Assign to me," "Unassign," or "Email Notification." However, three other action types provide similar, but important differences. Drag the alarm action names from the left and drop them on the correct corresponding definitions on the right.

Acknowledge	Delete
Delete	Clear
Clear	Acknowledge

#### NEW QUESTION 368

The results of a Cisco WCS client troubleshooting tool are summarized into a simple visual representation of a four-part progression of the connection status for a wireless client.

What are the four parts? (Choose four.)

- A. client MAC address
- B. 802.11 authentication
- C. IP address assignment
- D. 802.11 association
- E. successful association
- F. authentication method
- G. SSID
- H. client radio type

**Answer:** BCDE

#### NEW QUESTION 373

Drag the appropriate EAP descriptions on the left and drop them in the correct sequence of events for PEAP on the right.

Client sends fictitious identity.	Event 1
Client sends its certificate.	Event 2
Client sends its real identity.	Event 3
RADIUS server sends a fictitious username.	
RADIUS server sends its certificate.	
RADIUS server sends a real username.	

**Answer:**

**Explanation:**

Drag the appropriate EAP descriptions on the left and drop them in the correct sequence of events for PEAP on the right.

Client sends fictitious identity.	Client sends fictitious identity.
Client sends its certificate.	RADIUS server sends its certificate.
Client sends its real identity.	Client sends its real identity.
RADIUS server sends a fictitious username.	
RADIUS server sends its certificate.	
RADIUS server sends a real username.	

#### NEW QUESTION 376

A network engineer in the GUI of WCS version 7 wants to add an autonomous access point. Where can this command be found in the drop-down menu?



- A. Configure > Access Point > Add Autonomous APs
- B. Manage > Access Points > Add Autonomous APs
- C. Administration > Access Point > Add Autonomous APs
- D. Location > Access Point > Add Autonomous APs

**Answer:** A

#### NEW QUESTION 380

Which type of authentication is used initially by a controller-based AP so that a guest client can get an IP address?

- A. 802.1x
- B. EAP
- C. LEAP
- D. open authentication
- E. TLS
- F. SSL

**Answer:** D

#### NEW QUESTION 385

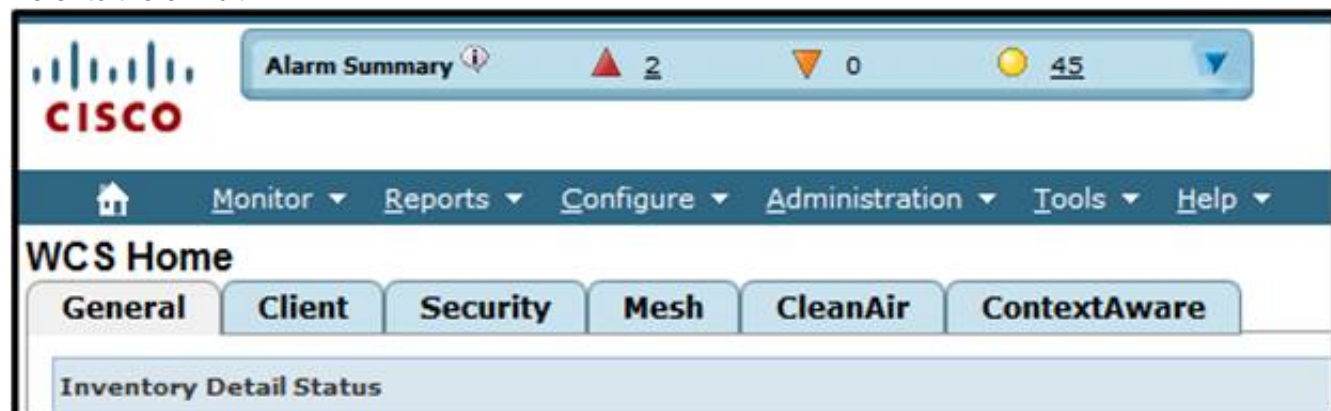
The administrator needs to create a report that shows all controllers, APs, and Cisco 3300 Series MSEs in the WLAN, including hardware and software information. Which report includes this information?

- A. Device > Inventory
- B. Mesh > Nodes
- C. Network Summary > Executive Summary
- D. Network Summary > 802.11 Summary

**Answer:** A

#### NEW QUESTION 386

Refer to the exhibit.



What is the meaning of the inverted orange triangle (marked "0") in the Alarm Summary tab of Cisco WCS?

- A. number of major alarms
- B. number of minor alarms
- C. number of critical alarms
- D. number of system alarms

**Answer:** A

#### NEW QUESTION 389

An installation uses a 21dBi parabolic dish. It is connected to the 802.11n radio via low loss antenna coax rated at 4dB loss/100 feet. After testing, it has been determined that 2mW of power will be lost in the cable. An EIRP producing 200mW is desired. What should the transmit power be set to?

- A. 8mW
- B. 3dBm
- C. 3.16mW
- D. 5mW

**Answer:** C

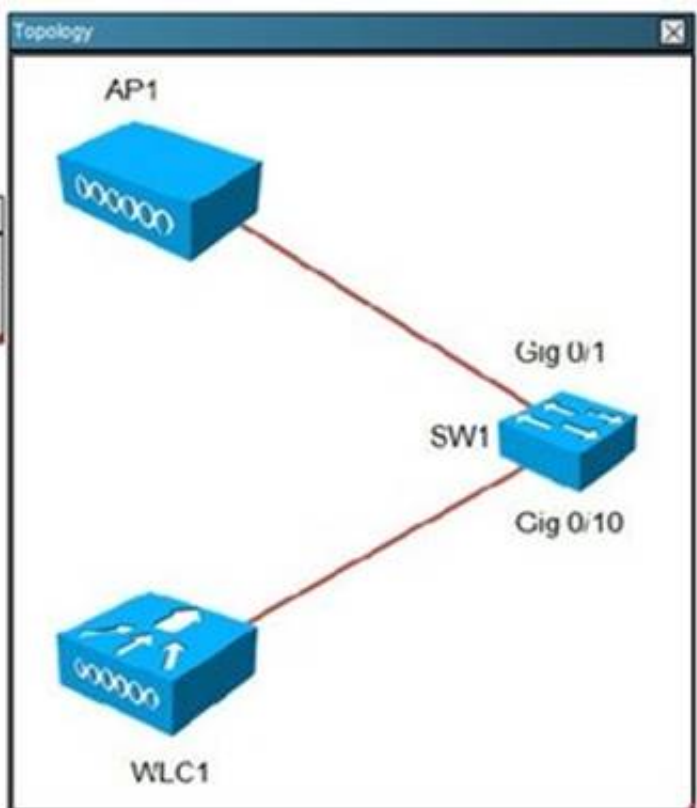
#### NEW QUESTION 391

Instructions

- Refer to the exhibits to answer the questions related to this task.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.**
- To access the multiple-choice question, click on the numbered box on the left of the top panel.
- There is one multiple-choice question with this task. Be sure to answer the question before selecting the Next button.

Scenario

You are deploying a small wireless test network in a lab. The network is made up of a wireless controller (WLC1), a dual radio access point (AP1) and a switch (SW1) that is configured as a DHCP server. The IP subnet being used for this network is 10.10.10.0/24.



WLC1 - Monitor Clients

CISCO

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

Monitor

Clients > Detail

Summary

Access Points

Cisco CleanAir

Statistics

CDP

Regues

Clients

Multicast


Client Properties

MAC Address	00:1d:e3:46:f3:2d
IP Address	10.10.10.130
Client Type	Regular
User Name	
Port Number	1
Interface	management
VLAN ID	0
CCX Version	CCXv4
E2E Version	E2Ev1
Mobility Role	Local
Mobility Peer IP Address	N/A
Policy Manager State	RUN
Management Frame Protection	No
UpTime (Sec)	112
Power Save Mode	ON
Current TxRateSet	m15
Data RateSet	1.0,2.0,5.5,11.0,6.0,9.0,12.0,18.0,24.0,36.0,48.0,54.0

AP Properties

AP Address	3c:ce:73:6c:c6:d0
AP Name	AP1
AP Type	802.11bn
WLAN Profile	MoHoo
Status	Associated
Association ID	1
802.11 Authentication	Open System
Reason Code	1
Status Code	0
CF Pullable	Not Implemented
CF Poll Request	Not Implemented
Short Preamble	Implemented
P3CC	Not Implemented
Channel Agility	Not Implemented
Timeout	1000
WEP State	WEP Disable

WLC1 - Intf Mgt



MONITOR

WLANs

CONTROLLER

WIRELESS

SECURITY

Controller

General

Inventory

Interfaces

Interface Groups

Multicast

Internal DHCP Server

Mobility Management

Ports

NIP

CDP

Advanced

Interfaces > Edit

General Information

Interface Name

management

MAC Address

d0:c2:82:e0:53:80

Configuration

Quarantine

☐

Quarantine VLAN ID

0

NAT Address

Enable NAT Address

☐

Interface Address

VLAN Identifier

0

IP Address

10.10.10.10

Netmask

255.255.255.0

Gateway

10.10.10.1

Physical Information

Port Number

1

Backup Port

0

Active Port

1

Enable Dynamic AP Management

☒

DHCP Information

Primary DHCP Server

10.10.10.10

Secondary DHCP Server

10.10.10.1

Access Control List

ACL Name

none

Note: Changing the Interface parameters causes the WLANs to be temporarily disabled and thus may result in loss of connectivity for some clients.



```

interface GigabitEthernet0/50
interface GigabitEthernet0/51
interface GigabitEthernet0/52
interface TenGigabitEthernet0/1
interface TenGigabitEthernet0/2
interface Vlan1
 ip address 10.10.10.1 255.255.255.0
!
ip classless
ip http server
ip http secure-server
!
!
control-plane
!
!
line con 0
line vty 0 4
 login
line vty 5 15
 login
!
end

```

The screenshot shows the Cisco WLC1 - WLAN configuration page for 'ExamSSID'. The 'General' tab is selected, showing various configuration options. The 'DHCP' section is expanded, showing the DHCP server configuration. The 'DHCP' section includes options for 'DHCP Server', 'DHCP Addr. Assignment', 'Management Frame Protection (MFP)', 'MFP Client Protection', 'DTIM Period (in beacon intervals)', 'NAC', and 'Load Balancing and Band Select'.

Configuration Option	Value
Allow AAA Override	Enabled
Coverage Hole Detection	Enabled
Enable Session Timeout	1800
Aironet IE	Enabled
Diagnostic Channel	Enabled
IPv6 enable	Disabled
Override Interface ACL	None
P2P Blocking Action	Disabled
Client Exclusion	Enabled
Maximum Allowed Clients	U
Static IP Tunneling	Enabled
Off Channel Scanning Defer	0 1 2 3 4 5 6 7
DHCP Server	Override
DHCP Addr. Assignment	Required
Management Frame Protection (MFP)	Optional
DTIM Period (in beacon intervals)	1
NAC State	None
Client Load Balancing	Enabled
Client Band Select	Enabled

In setting up the wireless network, it is desired that the DHCP server that is configured in WLC1 provides IP addressing to the WLAN. When devices attempt to join the network, they fail to receive an IP address in the range provided by the DHCP server in WLC1, but they do receive an IP address from the DHCP server in SW1. What is causing this issue?

- A. The external DHCP server in SW1 will always be the preferred DHCP server and WLC1 will always be the secondary DHCP server in the WLAN.
- B. The DHCP server address for SW1 needs to be removed from the DHCP server configuration in WLC1.
- C. The primary DHCP server address in WLC1 is incorrect.
- D. The primary DHCP server configured in WLC1 is not enabled.

Answer: D

#### NEW QUESTION 396

Which two formats are available for Cisco WCS reports? (Choose two.)

- A. PDF
- B. CSV
- C. HTML
- D. TXT

Answer: AB



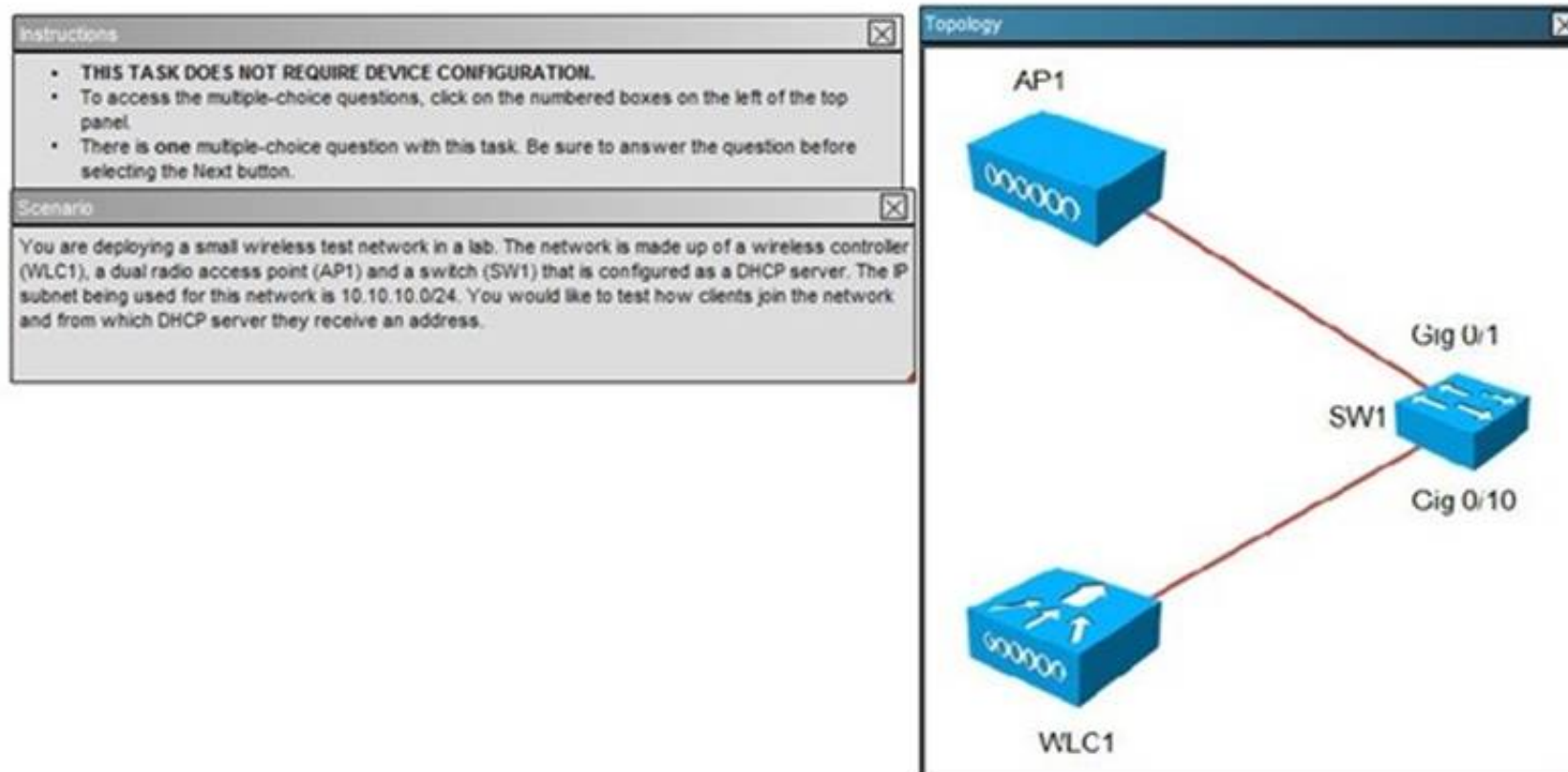
### NEW QUESTION 398

When a guest client is authenticated, which type of connection is created between the controller-based AP and the client?

- A. as SSL connection
- B. a TLS encrypted tunnel
- C. an unsecured connection
- D. a 802.1x/EAP tunnel
- E. an IPsec tunnel

Answer: C

### NEW QUESTION 399



WLC1 - DHCP Scope

**CISCO** MONITOR WLANs **CONTROLLER** WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

Controller

**General**  
**Inventory**  
**Interfaces**  
**Interface Groups**  
**Multicast**  
**Internal DHCP Server**  
 DHCP Scope  
 DHCP Allocated Leases  
**Mobility Management**  
**Ports**  
**NTP**  
**CDP**  
**Advanced**

**DHCP Scope > Edit**

Scope Name	IP Dot11a		
Pool Start Address	10.10.10.20		
Pool End Address	10.10.10.127		
Network	10.10.10.3		
Netmask	255.255.255.3		
Lease time (seconds)	86400		
Default Routers	10.10.10.1	0.0.0.0	0.0.0.0
DNS Domain Name			
DNS Servers	0.0.0.3	0.0.0.0	0.0.0.0
Netbios Name Servers	0.0.0.3	0.0.0.0	0.0.0.0
Status	Enabled		

WLC1 - WLAN Advanced

Save Configuration | Ping

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS ICLP FEEDBACK

WLANs > Edit 'ExamSSID' < Back

General Security QoS Advanced

Allow AAA Override ☐ Enabled

Coverage Hole Detection ☒ Enabled

Enable Session Timeout ☒ 1800  
Session Timeout (secs)

Airone: IE ☒ Enabled

Diagnostic Channel ☐ Enabled

IPv6 Enable ☐

Override Interface ACL

P2P Blocking Action

Client Exclusion ☒ Enabled 60  
Timeout Value (secs)

Maximum Allowed Clients

Static IP Tunneling ☐ Enabled

Off Channel Scanning Defer

Scan Defer Priority

0

1

2

3

4

5

6

7

☐☐☐☐☒☒☒☐

DHCP

DHCP Server ☐ Override

DHCP Addr. Assignment ☐ Required

Management Frame Protection (MFP)

MFP Client Protection

DTIM Period (in beacon intervals)

802.11a/n (1 - 255)

802.11b/g/n (1 - 255)

NAC

NAC State

Load Balancing and Band Select

Client Load Balancing ☐

Client Band Select ☐

[illegible]



## Passing Certification Exams Made Easy

```

!
interface GigabitEthernet0/50
!
interface GigabitEthernet0/51
!
interface GigabitEthernet0/52
!
interface TenGigabitEthernet0/1
!
interface TenGigabitEthernet0/2
!
interface Vlan1
 ip address 10.10.10.1 255.255.255.0
!
ip classless
ip http server
ip http secure-server
!
!
control-plane
!
!
line con 0
line vty 0 4
 login
line vty 5 15
 login
!
end

```

WLC1 - Intf Mgt

CISCO

MONITOR WLANs CONTROLLER WIRELESS SECURITY

Controller

General  
Inventory  
Interfaces  
Interface Groups  
Multicast  
▶ Internal DHCP Server  
▶ Mobility Management  
Ports  
▶ NTP  
▶ CDP  
▶ Advanced

Interfaces > Edit

General Information

Interface Name	management
MAC Address	d0:c2:82:e0:53:80

Configuration

Quarantine	<input type="checkbox"/>
Quarantine VLAN ID	<input type="text" value="0"/>

NAT Address

Enable NAT Address	<input type="checkbox"/>
--------------------	--------------------------

Interface Address

VLAN Identifier	<input type="text" value="0"/>
IP Address	<input type="text" value="10.10.10.10"/>
Netmask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="10.10.10.1"/>

Physical Information

Port Number	<input type="text" value="1"/>
Backup Port	<input type="text" value="0"/>
Active Port	<input type="text" value="1"/>
Enable Dynamic AP Management	<input checked="" type="checkbox"/>

DHCP Information

Primary DHCP Server	<input type="text" value="10.10.10.10"/>
Secondary DHCP Server	<input type="text" value="10.10.10.1"/>

Access Control List

ACL Name	none ▼
----------	--------

Note: Changing the Interface parameters causes the WLANs to be temporarily disabled and thus may result in loss of connectivity for some clients.

WLC1 - DHCP Scope

MONITOR WLANs **CONTROLLER** WIRELESS SECURITY MANAGEMENT COMMANDS HELP

DHCP Scope > Edit

Scope Name	IP Address		
Pool Start Address	10.10.10.20		
Pool End Address	10.10.10.127		
Network	10.10.10.0		
Netmask	255.255.255.0		
Lease Time (seconds)	86400		
Default Routers	10.10.10.1	0.0.0.0	0.0.0.0
DNS Domain Name			
DNS Servers	0.0.0.0	0.0.0.0	0.0.0.0
Netbios Name Servers	0.0.0.0	0.0.0.0	0.0.0.0
Status	Disabled		

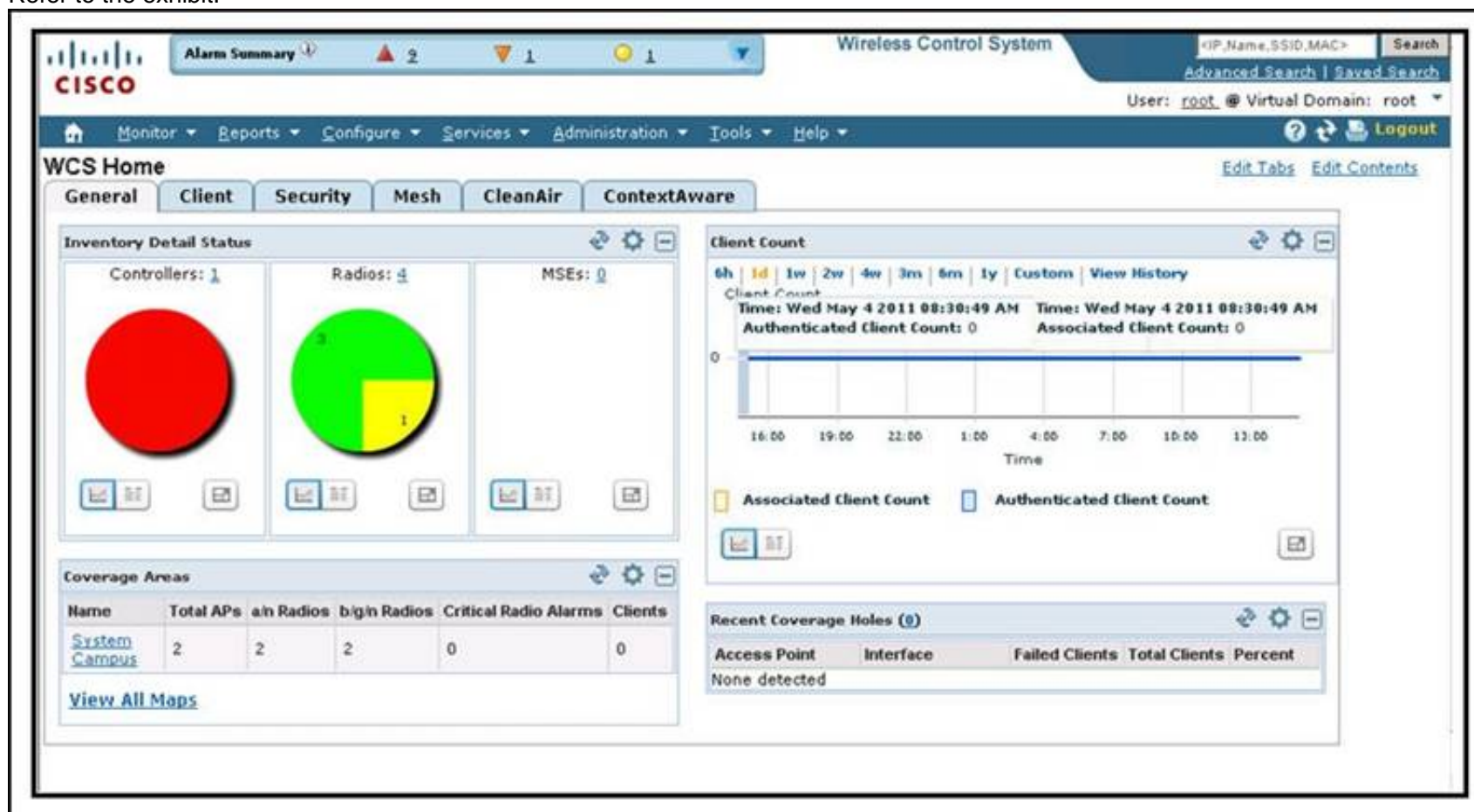
All equipment is operational. Through which two methods can a wireless client receive an IP address when associating to the WLAN? (Choose two.)

- A. The clients can receive an IP address from SW1.
- B. The clients can receive an IP address from WLC1.
- C. The clients will not receive an IP address from either DHCP server because of overlapping address ranges.
- D. The clients can receive an IP address in a round-robin manner from either SW1 or WLC1.
- E. The clients can use a static IP address.

Answer: BE

#### NEW QUESTION 400

Refer to the exhibit.



Which menu gives you access to manage background tasks in Cisco WCS?

- A. None, because the General tab provides access to the management of background tasks
- B. Monitor
- C. Configure
- D. Services
- E. Administration
- F. Tools

Answer: E

#### NEW QUESTION 403

An engineer is seeing a pattern closest to that of an Isotropic Radiator. What other antenna will produce a similar pattern?

- A. 5 dBi patch
- B. 13.5 dBi Yagi
- C. 2.2 dBi omni
- D. 21 dBi parabolic



Answer: C

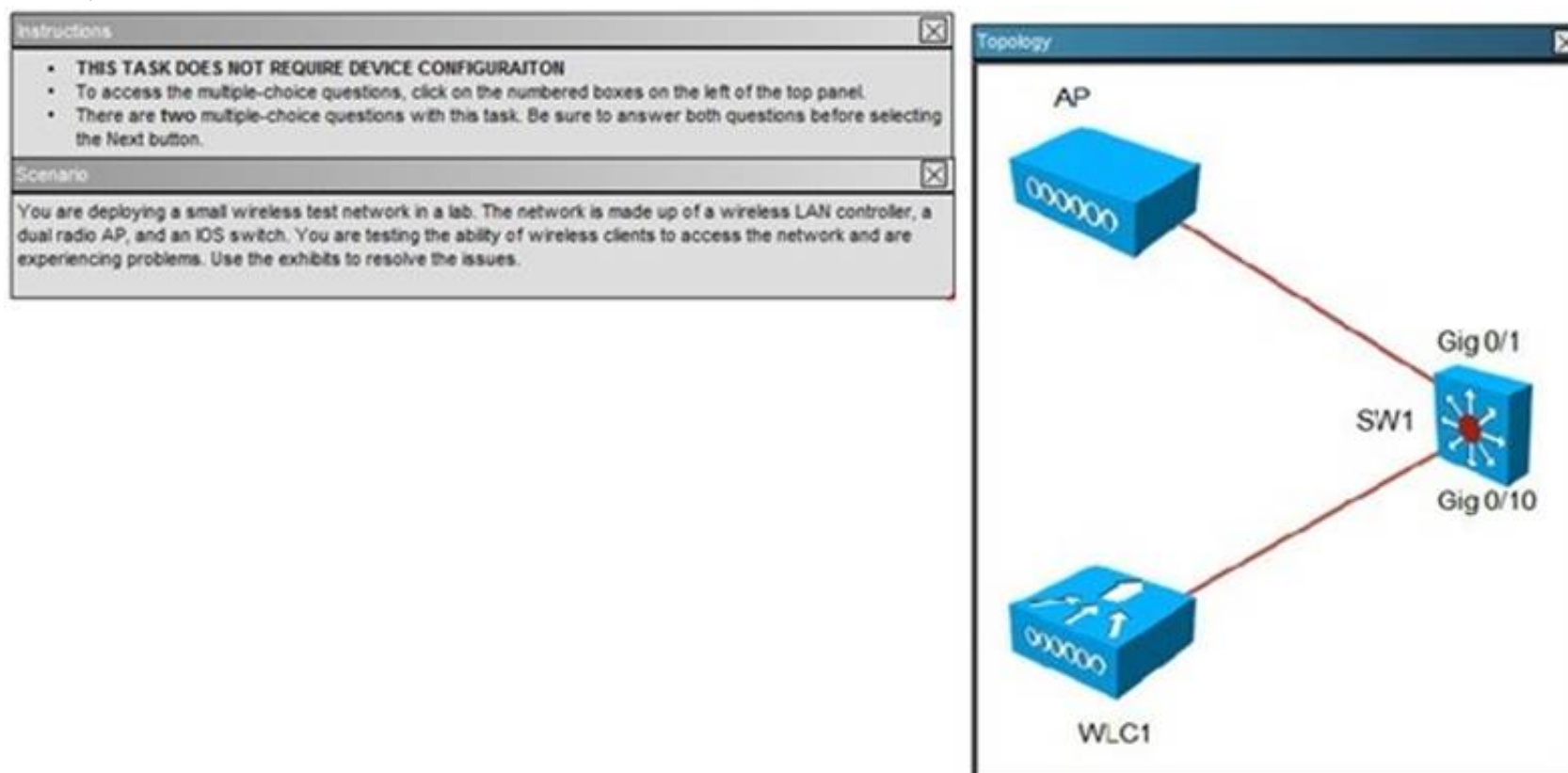
#### NEW QUESTION 404

Which four parameters must be configured for local EAP-FAST on the controller? (Choose four.)

- A. authority ID
- B. authority ID Information
- C. client key
- D. PAC
- E. server key
- F. TTL for PAC
- G. monitor key
- H. NTP source

Answer: ABEF

#### NEW QUESTION 406



802.11a Network

[MONITOR](#) [WLANs](#) [CONTROLLER](#) [WIRELESS](#) [SECURITY](#) [MANAGEMENT](#) [COMMANDS](#) [HELP](#) [FEEDBACK](#)

### 802.11a Global Parameters

#### General

802.11a Network Status	<input checked="" type="checkbox"/> Enabled
Beacon Period (milliseconds)	100
Fragmentation Threshold (bytes)	2346
DTPC Support	<input checked="" type="checkbox"/> Enabled

#### 802.11a Band Status

Low Band	Enabled
Mid Band	Enabled
High Band	Enabled

#### 11n Parameters

Client link	<input type="checkbox"/> Enabled
-------------	----------------------------------

#### Data Rates\*\*

6 Mbps	Mandatory
9 Mbps	Supported
12 Mbps	Mandatory
18 Mbps	Supported
24 Mbps	Mandatory
36 Mbps	Supported
48 Mbps	Supported
54 Mbps	Supported

#### CCX Location Measurement

Mode	<input checked="" type="checkbox"/> Enabled
------	---



802.11a/n AP

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11a/n Cisco APs > Configure

General

AP Name

AP442b.036d.4dcf

Admin Status

Enable ▾

Operational Status

UP

Slot #

1

11n Parameters

11n Supported

Yes

ClientLink

☐

CleanAir

CleanAir Capable

No

CleanAir Admin Status

Disable ▾

Antenna Parameters

Antenna Type

Internal ▾

A

☒

B

☒

C

☒

RF Channel Assignment

Current Channel

149

Channel Width \*

20 MHz ▾

\* Channel width can be configured only when channel configuration mode

Assignment Method

☒ Global
 ☐ Custom

Tx Power Level Assignment

Current Tx Power Level

4

Assignment Method

☐ Global
 ☒ Custom 4 ▾

Performance Profile

View and edit Performance Profile for this AP

Performance Profile

Note: Changing any of the parameters causes the radio to be temporarily disabled and thus may result in loss of connectivity for some clients.

802.11b/g Network

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11b/g Global Parameters

General

802.11b/g Network Status

☒ Enabled

802.11g Support

☒ Enabled

Beacon Period (milliseconds)

100

Short Preamble

☒ Enabled

Fragmentation Threshold (bytes)

2346

DTPC Support

☒ Enabled

11n Parameters

ClientLink

☐ Enabled

CCX Location Measurement

Mode

☐ Enabled

Data Rates\*\*

1 Mbps

Disabled ▾

2 Mbps

Disabled ▾

5.5 Mbps

Disabled ▾

6 Mbps

Supportec ▾

9 Mbps

Supportec ▾

11 Mbps

Disabled ▾

12 Mbps

Mandatory ▾

18 Mbps

Supporter ▾

24 Mbps

Supportec ▾

36 Mbps

Supportec ▾

48 Mbps

Supportec ▾

54 Mbps

Supportec ▾

WLAN General

[MONITOR](#)
[WLANs](#)
[CONTROLLER](#)
[WIRELESS](#)
[SECURITY](#)
[MANAGEMENT](#)
[COMMANDS](#)
[HELP](#)
[FEEDBACK](#)

WLANs > Edit 'ExamSSID'

[General](#)
[Security](#)
[QoS](#)
[Advanced](#)

Profile Name	ExamSSID
Type	WLAN
SSID	ExamSSID
Status	<input checked="" type="checkbox"/> Enabled
Security Policies	[WPA2][Auth(PSK)] (Modifications done under security tab will appear after applying the changes.)
Radio Policy	802.11b/g only ▾
Interface/Interface Group(G)	management ▾
Multicast Vlan Feature	<input type="checkbox"/> Enabled
Broadcast SSID	<input type="checkbox"/> Enabled

802.11bg AP

[MONITOR](#)
[WLANs](#)
[CONTROLLER](#)
[WIRELESS](#)
[SECURITY](#)
[MANAGEMENT](#)
[COMMANDS](#)
[HELP](#)
[FEEDBACK](#)

802.11b/g/n Cisco APs > Configure

[General](#)

AP Name	AP442b.03bd.4d0f
Admin Status	Enable ▾
Operational Status	UP
Slot #	0

[11n Parameters](#)

11n Supported	Yes
ClientLink	<input type="checkbox"/>

[CleanAir](#)

CleanAir Capable	No
CleanAir Admin Status	Disable ▾

[Antenna Parameters](#)

Antenna Type	Internal ▾						
Antenna	<table> <tr> <td>A</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>B</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>C</td> <td><input checked="" type="checkbox"/></td> </tr> </table>	A	<input checked="" type="checkbox"/>	B	<input checked="" type="checkbox"/>	C	<input checked="" type="checkbox"/>
A	<input checked="" type="checkbox"/>						
B	<input checked="" type="checkbox"/>						
C	<input checked="" type="checkbox"/>						

[RF Channel Assignment](#)

Current Channel	11
Channel Width	20 MHz ▾
Assignment Method	<input checked="" type="radio"/> Global <input type="radio"/> Custom

*Note: Only Channels 1,6 and 11 are nonoverlapping*

[Tx Power Level Assignment](#)

Current Tx Power Level	5
Assignment Method	<input type="radio"/> Global <input checked="" type="radio"/> Custom 5 ▾

[Performance Profile](#)

View and edit Performance Profile for this AP.

[Performance Profile](#)

*Note: Changing any of the parameters causes the Radio to be temporarily disabled and thus may result in loss of connectivity for some clients.*



WLAN Security

CISCO

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP

WLANs

WLANs > Edit 'ExamSSID'

General Security QoS Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security WPA+WPA2

MAC Filtering

WPA+WPA2 Parameters

WPA Policy

WPA2 Policy

WPA2 Encryption

Auth Key Mgmt

PSK Format

PSK

ASCII

\*\*\*\*\*

WLAN QoS

CISCO

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS

WLANs

WLANs > Edit 'ExamSSID'

General Security QoS Advanced

Quality of Service (QoS) Silver (best effort)

WMM

WMM Policy

7920 AP CAC

7920 Client CAC

Required

Enabled

Enabled

WLAN Adv

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs > Edit 'ExamSSID'

General Security QoS Advanced

Allow AAA Override

Coverage Hole Detection

Enable Session Timeout

Aironet IE

Diagnostic Channel

IPv6 Enable

Override Interface ACL

P2P Blocking Action

Client Exclusion

Maximum Allowed Clients

Static IP Tunneling

Off Channel Scanning Defer

Scan Defer Priority

Scan Defer Time(msecs)

DHCP

DHCP Server

DHCP Addr. Assignment

Management Frame Protection (MFP)

MFP Client Protection

UIM Period (in beacon intervals)

802.11a/n (1 - 255)

802.11b/g/n (1 - 255)

NAC

NAC State

Load Balancing and Band Select

Client Load Balancing

Client Band Select

Passive Client

Tablets and other wireless clients are unable to connect at any 802.11 n data rates. What is the most likely cause of this problem?

A. WLAN > General properties are incorrectly configured.



- B. WLAN > QoS properties are incorrectly configured.
- C. WLAN > Security properties are incorrectly configured.
- D. WLAN > Advanced properties are incorrectly configured.
- E. Wireless > AP > 802.11 a/n is incorrectly configured.
- F. Wireless > 802.11a/n > Network is incorrectly configured.

**Answer:** C

#### NEW QUESTION 410

Which portion of a WLAN deployment can WLC message logs help to troubleshoot?

- A. RF issues
- B. encryption issues between APs and clients
- C. configuration verification issues
- D. infrastructure and client Issues
- E. AP placement issues

**Answer:** D

#### NEW QUESTION 411

How many RADIUS servers can be configured globally and per WLAN on a Cisco WLC version 7.0?

- A. 7 global; additional 1 per WLAN
- B. 7 global; additional 3 per WLAN
- C. 17 global; additional 1 per WLAN
- D. 17 global; additional 3 per WLAN
- E. 7 global; reuse of up to 1 maximum per WLAN
- F. 17 global; reuse of up to 1 maximum per WLAN
- G. 17 global; reuse of up to 3 maximum per WLAN

**Answer:** G

#### NEW QUESTION 412

Which three severity levels are in the Cisco WCS alarm dashboard? (Choose three.)

- A. Critical
- B. Flash
- C. Major
- D. Minor
- E. Trivial
- F. Urgent

**Answer:** ACD

#### NEW QUESTION 413

Which Cisco AnyConnect module allows you to set the parameters that are needed to connect to the wireless network?

- A. NAM
- B. DART
- C. posture
- D. telemetry

**Answer:** A

#### NEW QUESTION 417

Drag the authentication types from the left and drop them on the correct descriptions on the right.

EAP-FAST		Not used much anymore.
EAP-MD5		Requires a certificate on the server but not on the client.
EAP-TLS		Requires a client-side certificate.
LEAP		Strong password policies recommended.
PEAP		Uses a Protected Access Credential.

**Answer:**

**Explanation:**

Drag the authentication types from the left and drop them on the correct descriptions on the right.

EAP-FAST	EAP-MD5
EAP-MD5	PEAP
EAP-TLS	EAP-TLS
LEAP	LEAP
PEAP	EAP-FAST

#### NEW QUESTION 418

Drag the commands on the left that are enabled during a SSH or Telnet session with a lightweight AP and drop them on the right.

config terminal	Target
debug	Target
show	Target
enable	
clear	
delete	
reload	
upgrade	

Answer:

Explanation:

Drag the commands on the left that are enabled during a SSH or Telnet session with a lightweight AP and drop them on the right.

config terminal	debug
debug	show
show	enable
enable	
clear	
delete	
reload	
upgrade	

#### NEW QUESTION 422

Which statement about configuration of Layer 2 wireless user authentication on a Cisco WLC is true?

- A. Local EAP is used only if an external RADIUS is not configured or is unreachable.
- B. The external RADIUS is used only if local EAP is not configured.
- C. The administrator chooses whether local EAP or an external RADIUS is used first.
- D. The external RADIUS is used only if local EAP is explicitly disabled.

Answer: A

#### NEW QUESTION 426

Which statement describes a security weakness of a WPA2 with a PSK?

- A. The compromised key can be used for another connection.
- B. The key can be eavesdropped from the wireless medium.

- C. The key can be recreated from a few eavesdropped frames.  
D. The key is not case-sensitive and is vulnerable to compromise by brute-force methods.

**Answer:** A

#### NEW QUESTION 429

What are two wireless configuration utilities for Apple Mac computers? (Choose two.)

- A. AirPort  
B. AirPort Extreme  
C. AirManager  
D. AirManager Supreme  
E. AirAssistant Ultimate

**Answer:** AB

#### NEW QUESTION 432

Which option describes why most wireless phones and tablets do not use 802.11a/n and 40 MHz channels?

- A. a lack of radio range when using these radios  
B. a lack of device battery capacity to operate concurrent a/b/g/n radios  
C. a lack of cooling in the device necessary to operate these radios  
D. These radios would require the devices to be larger.

**Answer:** B

#### NEW QUESTION 434

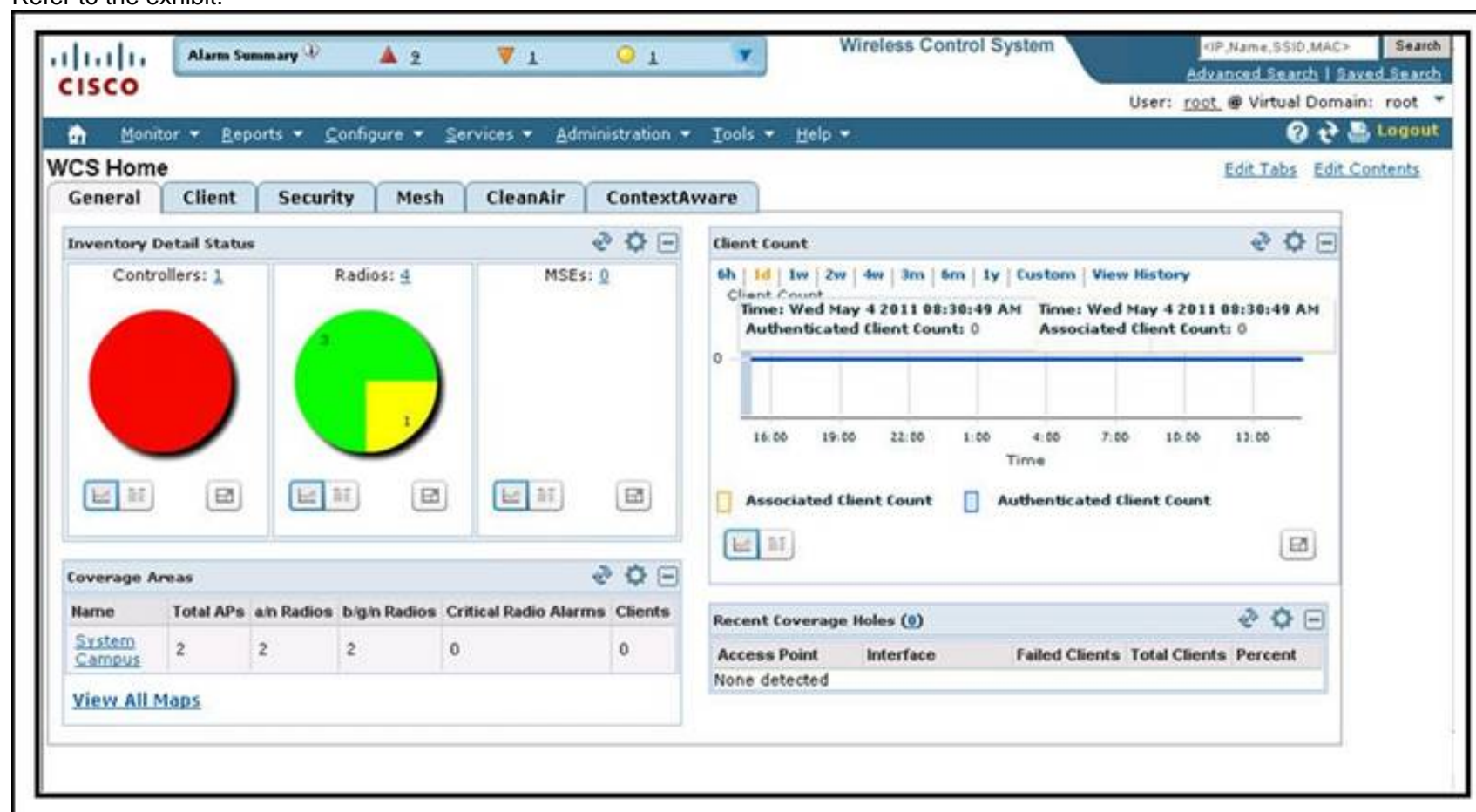
A wireless bridge is being installed near an airport. An organization informs the city council about complying with max power levels that could be used and settings on any 5GHz channels used that might interfere with the airport radar. What organization is this?

- A. Institute of Electrical and Electronics Engineers  
B. Internet Engineering Task Force  
C. Federal Communications Commission  
D. Wireless Fidelity Alliance

**Answer:** C

#### NEW QUESTION 435

Refer to the exhibit.



Which action allows you to view a summary count by alarm types for the displayed total of 11 alarms?

- A. Choose Monitor > Alarms  
B. Click the Security tab  
C. Click a respective number in the Alarm Summary  
D. Click the Alarm Summary blue arrow  
E. Choose Home (house icon) > Alarm Summary

**Answer:** D

#### NEW QUESTION 436



**Instructions**

- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- To access the multiple-choice question, click on the numbered box on the left of the top panel.
- There is one multiple-choice question with this task. Be sure to answer the question before selecting the Next button.

**Scenario**

A Cisco Wireless LAN Controller has been correctly configured for AP and wireless client access. The WLC and AP have been connected using a configured Cisco IOS switch. Unexpected results are occurring for the AP association to the WLC. Refer to the exhibits to answer the question.

**Topology**

```

graph LR
    AP[AP] --- SW1[SW1]
    WLC1[WLC1] --- SW1
    subgraph SW1
        direction TB
        SW1_05[FastEthernet0/5]
        SW1_01[FastEthernet0/1]
    end
    style SW1 fill:none,stroke:none
    style SW1_05 fill:none,stroke:none
    style SW1_01 fill:none,stroke:none
    
```

The diagram shows a network topology with three main components: an Access Point (AP), a Cisco IOS switch (SW1), and a Cisco Wireless LAN Controller (WLC1). The AP is connected to SW1 via a red line. The WLC1 is also connected to SW1 via a red line. The switch SW1 has two ports labeled: FastEthernet0/5 and FastEthernet0/1. The AP is connected to FastEthernet0/5, and WLC1 is connected to FastEthernet0/1.

## SW1 Show Run

```
SW1#show run
Building configuration...

Current configuration : 3537 bytes
!
version 12.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Switch
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$Wp4r$xs.hQpilAfTXJN1gR3oxe1
!
no aaa new-model
system mtu routing 1500
ip routing
ip dhcp excluded-address 10.10.10.1 10.10.10.100
ip dhcp excluded-address 10.20.20.1 10.20.20.100
!
ip dhcp pool vlan1
  network 10.10.10.0 255.255.255.0
  default-router 10.10.10.1
!
ip dhcp pool vlan20
  network 10.20.20.0 255.255.255.0
  default-router 10.20.20.1
!
no ip domain-lookup
!
spanning-tree mode port
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
interface FastEthernet0/1
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/2
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/3
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/4
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/5
  switchport access vlan 20
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/6
  switchport access vlan 20
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/7
  switchport access vlan 20
  switchport mode access
  spanning-tree portfast
!
interface FastEthernet0/8
  switchport access vlan 20
  switchport mode access
  spanning-tree portfast
!
Output omitted for brevity
!
interface Vlan1
  ip address 10.10.10.1 255.255.255.0
!
interface Vlan20
  ip address 10.20.20.1 255.255.255.0
!
ip classless
```

Wireless All APs

MONITOR

WLANs

CONTROLLER

WIRELESS

SECURITY

MANAGEMENT

COMMANDS

HELP

FEEDBACK

All APs

Entries 0 - 0 of 0

Current Filter

None

[Change filter]

[Clear filter]

Number of APs

0

AP Name	AP Model	AP MAC	AP Up Time	Admin Status	Operational Status	Port	AP Mode	Certificate Type	OfficeExtend AP	Primary SW version	Backup SW version	AP Sub Mode
---------	----------	--------	------------	--------------	--------------------	------	---------	------------------	-----------------	--------------------	-------------------	-------------

SW1 Debug Output

```

Switch#debug ip dhcp server events
DHCP server event debugging is on.
Switch#
*Mar 1 11:06:40.119: DHCPD: Sending notification of TERMINATION:
*Mar 1 11:06:40.119: DHCPD: address 10.20.20.128 mask 255.255.255.0
*Mar 1 11:06:40.119: DHCPD: reason flags: RELEASE .116
*Mar 1 11:06:40.119: DHCPD: type 1 chaddr 442b.036c.4d0f
*Mar 1 11:06:40.119: DHCPD: lease time remaining (secs) = 86342
*Mar 1 11:06:40.128: DHCPD: interface = Vlan20
*Mar 1 11:06:40.128: DHCPD: out_vlan_id 0
*Mar 1 11:06:40.128: DHCPD: returned 10.20.20.128 to address pool vlan20.
*Mar 1 11:06:45.622: DHCPD: Sending notification of DISCOVER:
*Mar 1 11:06:45.622: DHCPD: type 1 chaddr 442b.036c.4d0f
*Mar 1 11:06:45.622: DHCPD: interface = Vlan20
*Mar 1 11:06:45.622: DHCPD: class id 430973030f204150206331313430
*Mar 1 11:06:45.622: DHCPD: out_vlan_id 0
*Mar 1 11:06:45.622: DHCPD: Sending notification of DISCOVER:
*Mar 1 11:06:45.622: DHCPD: type 1 chaddr 442b.036c.4d0f
*Mar 1 11:06:45.622: DHCPD: interface = Vlan20
*Mar 1 11:06:45.622: DHCPD: class id 430973030f204150206331313430
*Mar 1 11:06:45.631: DHCPD: out_vlan_id 0
*Mar 1 11:06:47.644: DHCPD: Adding binding to radix tree (10.20.20.129)
*Mar 1 11:06:47.644: DHCPD: Adding binding to hash tree
*Mar 1 11:06:47.644: DHCPD: assigned IP address 10.20.20.129 to client 0144.2b03.6d4d.0f. (984 C)
*Mar 1 11:06:47.644: DHCPD: DHCPFFER notify setup address 10.20.20.129 mask 255.255.255.0
*Mar 1 11:06:47.644: DHCPD: Sending notification of ASSIGNMENT:
*Mar 1 11:06:47.644: DHCPD: address 10.20.20.129 mask 255.255.255.0
*Mar 1 11:06:47.644: DHCPD: type 1 chaddr 442b.036c.4d0f
*Mar 1 11:06:47.644: DHCPD: lease time remaining (secs) = 86400
*Mar 1 11:06:47.644: DHCPD: interface = Vlan20
*Mar 1 11:06:47.644: DHCPD: out_vlan_id 0
*Mar 1 11:06:55.135: DHCPD: checking for expired leases.

```

The AP is unable to join the WLC. What switch configuration will correct this problem?

- A. interface vlanlip helper-address 10.10.10.10
- B. interface vlan20ip helper-address 10.10.10.10
- C. ipdhcp pool vlanloption 43 ascii '10.10.10.10'
- D. ip dhcp pool vlan20option 43 ascii '10.10.10.10'
- E. ipdhcp pool vlanloption 43 hex f1040a0a0a0a
- F. ip dhcp pool vlan20option 43 hex f1040a0a0a0a

Answer: F

#### NEW QUESTION 440

Which two factors must be considered when evaluating an RF interferer for severity? (Choose two.)

- A. distance from the AP
- B. dBm
- C. the type of security crack being used
- D. duty cycle
- E. number of interfering IP stations in the cell
- F. duplicate SSID

Answer: BD

#### NEW QUESTION 441

What tab contains access point configuration in the WCS?

- A. Controller > Access Points
- B. Configure > Access Points
- C. General > Configure > Access Points
- D. System > Configure > Access Points

Answer: B

#### NEW QUESTION 446

You have brought your MacBook Pro running OS 10.6 to work and intend use the enterprise wireless network. This network is using EAP-FAST and 2.4 GHz for data and 5 GHz for VoWLAN.

Which statement about the laptop configuration and wireless connection is true?

- A. Install a USB wireless adapter and configure
- B. Install Apple EAP-Fast plug-in and configure
- C. Install Cisco AnyConnect v2.4 and configure



- D. Configure Apple network preferences for EAP-FAST
- E. The laptop does not support EAP-FAST and will be unable to connect
- F. The laptop only supports 5 GHz and will be unable to connect

Answer: D

NEW QUESTION 451

Which two protocols are available to download or upload files to or from Cisco WLC? (Choose two.)

- A. FTP
- B. TFTP
- C. SCP
- D. HTTP
- E. HTTPS

Answer: AB

NEW QUESTION 454

The network administrator wants an access point to be able to find rogue APs and to support location-based services. Which AP mode meets this requirement while having the radios up and preventing client connections?

- A. monitor
- B. sniffer
- C. rogue-detection
- D. H-REAP

Answer: A

NEW QUESTION 458

Drag the features on the left that use the "split MAC" model and drop them on the appropriate device on the right.

802.11 frame translation and bridging

mobility management

encryption downstream

providing real-time signal-quality information

QoS policies

decryption upstream

Controller

Target

Target

Target

AP

Target

Target

Target

Answer:

Explanation:

Drag the features on the left that use the "split MAC" model and drop them on the appropriate device on the right.

802.11 frame translation and bridging

mobility management

encryption downstream

providing real-time signal-quality information

QoS policies

decryption upstream

Controller

QoS policies

mobility management

802.11 frame translation and bridging

AP

providing real-time signal-quality information

encryption downstream

decryption upstream

NEW QUESTION 461

Which EAP protocol requires a certificate only on the server side?

- A. EAP-PEAP
- B. EAP-FAST
- C. EAP-TLS
- D. EAP-SSL

**Answer:** A

#### NEW QUESTION 463

Which action secures the SNMPv2C protocol in a Cisco WLC?

- A. configure new communities and disable default communities
- B. use digital certificates to authenticate and encrypt transmissions
- C. enable password or transfer encryption
- D. set a username and difficult-to-guess password

**Answer:** A

#### NEW QUESTION 465

Which statement about the impact of configuring a single SSID to support TKIP and AES encryption simultaneously is true?

- A. The overhead associated with supporting both encryption methods degrades client throughput significantly.
- B. Some wireless client drivers might not handle complex SSID settings and may be unable to associate to the WLAN.
- C. This configuration is unsupported and the Cisco Wireless Control System generates alarms continuously until the configuration is corrected.
- D. This configuration is common for migrating from WPA to WPA2. No problem is associated with using this configuration.

**Answer:** B

#### NEW QUESTION 468

You are on the phone working with a colleague that is console connected to a lightweight AP that has lost its configuration. Which three actions are necessary to allow the AP to connect to a controller? (Choose three.)

- A. Configure the AP IP address.
- B. Configure the controller name.
- C. Configure the controller IP address.
- D. Configure the AP hostname.
- E. Configure the AP IP default-gateway.
- F. Configure the AP username and password.

**Answer:** ACE

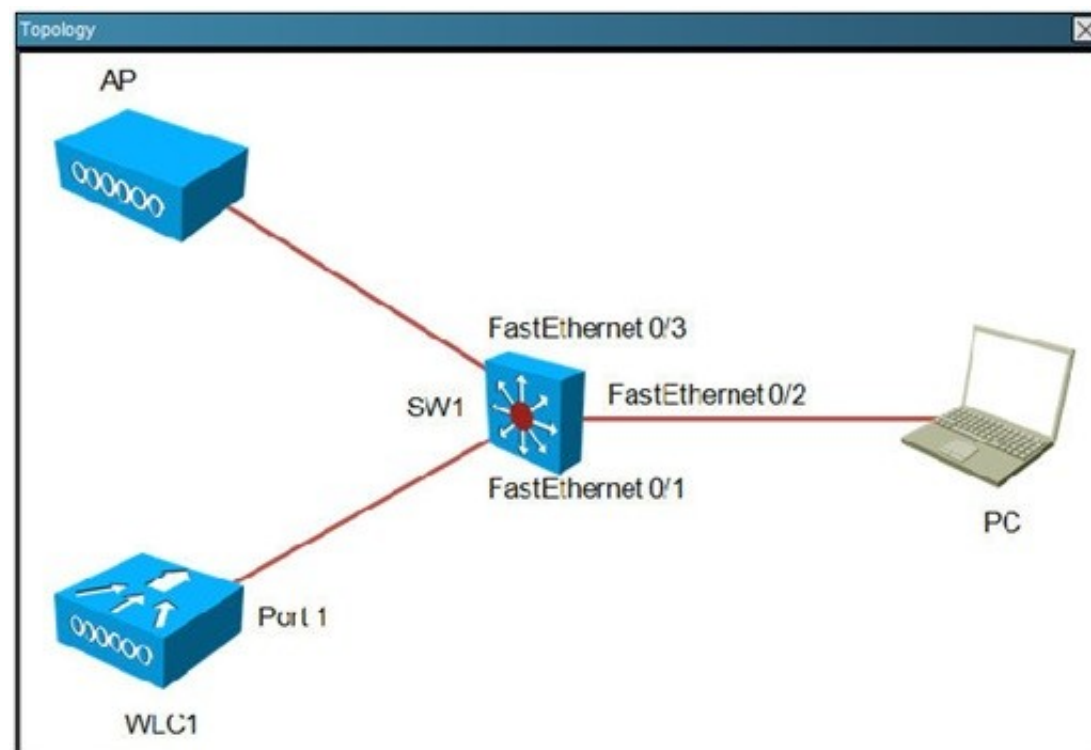
#### NEW QUESTION 469

Instructions

- **THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.**
- To access the multiple-choice question, click on the numbered box on the left of the top panel.
- There is **one** multiple-choice question with this task. Be sure to answer the question before selecting the Next button.

Scenario

You have just finished configuring a WLC2504 through the console CLI. The WLC is attached to an existing production network switch. However, you are are not able to reach the WLC via `https://10.10.10.10`.





# SW1 Show Run

```
SW1#sh run
Building configuration...

Current configuration : 4504 bytes
!
version 12.2
no service password-encryption
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Switch
!
boot-start-marker
boot-end-marker
!
enable secret 5 $1$Up4r$xs.hQpilRFTXJNigR3oxe1
!
!
no aaa new-model
system mtu routing 1500
ip routing
ip dhcp excluded-address 10.10.10.1 10.10.10.50
ip dhcp excluded-address 192.168.14.1 192.168.14.50
ip dhcp excluded-address 192.168.25.1 192.168.25.50
ip dhcp excluded-address 172.16.12.1 172.16.12.50
ip dhcp excluded-address 172.16.23.1 172.16.23.50
!
ip dhcp pool vlan1
network 10.10.10.0 255.255.255.0
default-router 10.10.10.1
!
ip dhcp pool vlan40
network 192.168.14.0 255.255.255.0
default-router 192.168.14.1
!
ip dhcp pool vlan50
network 192.168.25.0 255.255.255.0
default-router 192.168.25.1
!
ip dhcp pool vlan20
network 172.16.12.0 255.255.255.0
default-router 172.16.12.1
!
ip dhcp pool vlan30
network 172.16.23.0 255.255.255.0
default-router 172.16.23.1
!
!
no ip domain-lookup
!
!
spanning-tree mode pwt
spanning-tree extend system-id
!
!
vlan internal allocation policy ascending
!
!
interface FastEthernet0/1
description VLC1
switchport trunk encapsulation dot1q
switchport mode trunk
!
interface FastEthernet0/2
description PC
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/3
description AP
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/4
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/5
switchport access vlan 20
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/6
switchport access vlan 20
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/7
switchport access vlan 30
switchport mode access
spanning-tree portfast
!
!
interface FastEthernet0/7
switchport access vlan 30
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/8
switchport access vlan 30
switchport mode access
```

```
ip classless
ip http server
ip http secure-server
!
ip sla enable reaction-alerts
!
!
line con 0
line vty 0 4
  password cisco
  login
line vty 5 15
  login
!
end
```

#### SW1 Show Intf Switchport

```
SW1#show int faste0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: on
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Administrative Native VLAN tagging: enabled
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk Native VLAN tagging: enabled
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk associations: none
Administrative private-vlan trunk mappings: none
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL

Protected: false
Unknown unicast blocked: disabled
Unknown multicast blocked: disabled
Appliance trust: none
SW1#
```



# SW1 Show Interface

```
SW1#sh int fast0/1
FastEthernet0/1 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 2c36.f866.a701 (bia 2c36.f866.a701)
Description: WLC1
MTU 1500 bytes, BW 100000 kbit, DLY 100 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full-duplex, 100Mb/s, media type is 10/100BaseTX
input flow-control is off, output flow-control is unsupported
ARP type: ARPA, ARP Timeout 04:00:00
Last input 00:00:05, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/40 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 1000 bits/sec, 3 packets/sec
  15220 packets input, 5567664 bytes, 0 no buffer
  Received 9/8 broadcasts (0 multicast)
  0 runs, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored
  0 watchdog, 756 multicast, 0 pause input
  0 input packets with dribble condition detected
108786 packets output, 10214445 bytes, 0 underruns
  0 output errors, 0 collisions, 1 interface resets
  0 babbles, 0 late collision, 0 deferred
  0 lost carrier, 0 no carrier, 0 PAUSE output
  0 output buffer failures, 0 output buffers swapped out
SW1#
```

# SW1 Show VLAN

```
SW1#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	fa0/2, fa0/3, fa0/4, Gi0/1 Gi0/2
20	vlan20	active	Fa0/5, Fa0/6
30	vlan30	active	Fa0/7, Fa0/8
40	vlan40	active	Fa0/9, Fa0/10
50	vlan50	active	Fa0/11, Fa0/12
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

```
SW1#
```



```

WLC1 - Setup
System Name [Cisco_e0:52:04] (31 characters max): WLC1
Enter Administrative User Name (24 characters max): admin
Enter Administrative Password (3 to 24 characters): *****
Re-enter Administrative Password : *****

Management Interface IP Address: 10.10.10.10
Management Interface Netmask: 255.255.255.0
Management Interface Default Router: 10.10.10.1
Management Interface VLAN Identifier (0 - untagged): 1
Management Interface Port Num [1 to 4]: 1
Management Interface DHCP Server IP Address: 10.10.10.1

Virtual Gateway IP Address: 192.0.2.1

Mobility/RF Group Name: Mobility

Network Name (SSID): ExamSSID

Configure DHCP Bridging Mode [yes][no]:
Allow Static IP Addresses [YES][no]:

Configure a RADIUS Server now? [YES][no]: no
Warning! The default WLAN security policy requires a RADIUS server.
Please see documentation for more details.

Enter Country Code list (enter 'help' for a list of countries) [US]:

Enable 802.11b Network [YES][no]: no
Enable 802.11a Network [YES][no]: yes
Enable Auto-RF [YES][no]: yes

Configure a NTP server now? [YES][no]: no
Configure the system time now? [YES][no]: no

Warning! No AP will come up unless the time is set.
Please see documentation for more details.

Configuration correct? If yes, system will save it and reset. [yes][no]: yes

.....reboot info deleted.....

User: admin
Password: *****
<Cisco Controller> >ping 10.10.10.1

Send count=3, Receive count=0 from 10.10.10.1

<Cisco Controller> >

```

Which change can correct inband access to the WLC?

- A. change the switch FastEthernet0/1 duplex setting
- B. change the switch FastEthernet0/1 speed setting
- C. enable the switch FastEthernet0/1 spanning-tree port-fast trunk
- D. change the switch FastEthernet0/1 trunk encapsulation
- E. change the WLC management interface to use DHCP
- F. change the WLC management interface VLAN
- G. change the WLC configuration of NTP
- H. browse to WLC via <http://10.10.10.10>

**Answer:** D

#### NEW QUESTION 470

You are sitting in an airport preparing to use a free WLAN. When you look at the connections in your Windows 7 wireless client, you see a network name and three boxes with a yellow shield.

What does this mean?

- A. You cannot connect to this WLAN.
- B. An open ad hoc network is nearby.
- C. The WLAN in the airport is open.
- D. A secure ad hoc network is nearby.
- E. A secure WLAN is in the airport.
- F. You must provide a username and password to access the WLAN in the airport.

**Answer:** B

#### NEW QUESTION 474

Which description best describes upfade in a multipath environment?

- A. In this situation, multiple signal paths are not sent at exactly the same time
- B. The receiver receives a positive crest on the primary signal and a negative crest on the secondary signal.
- C. In this situation, the multiple signal paths are distorted and difficult to understand.

- D. In this situation, the multiple signal paths are weaker than they should be because the signals are out of phase with each other.  
 E. In this situation, the signal is stronger than it should be because multiple signal paths are received twice at exactly the same time, which results in the multiple signals being in-phase.

**Answer:** D

#### NEW QUESTION 478

Cisco Client Management Frame Protection is running on a mobility group with two controllers. Which two MFP requirements protect the network? (Choose two.)

- A. forces clients to authenticate, using a secure EAP method only  
 B. implements the validation of wireless management frames  
 C. requires Cisco Compatible Extensions v5  
 D. requires the use of a nonbroadcast SSID  
 E. requires Cisco Compatible Extensions v4

**Answer:** BC

#### NEW QUESTION 483

Drag the Cisco WCS report from the left and drop it on the category it reports on to the right.

Worst Interferers	Performance
Network Utilization	CleanAir
PCI DSS Summary	Network Summary
802.11n Summary	Compliance

**Answer:**

**Explanation:**

Drag the Cisco WCS report from the left and drop it on the category it reports on to the right.

Worst Interferers	Network Utilization
Network Utilization	Worst Interferers
PCI DSS Summary	802.11n Summary
802.11n Summary	PCI DSS Summary

#### NEW QUESTION 488

Which CAPWAP AP management-access method is available as the default setting?

- A. only the console port  
 B. the console port and SSH  
 C. the console port, SSH, and HTTPS  
 D. SSH only

**Answer:** A

#### NEW QUESTION 493

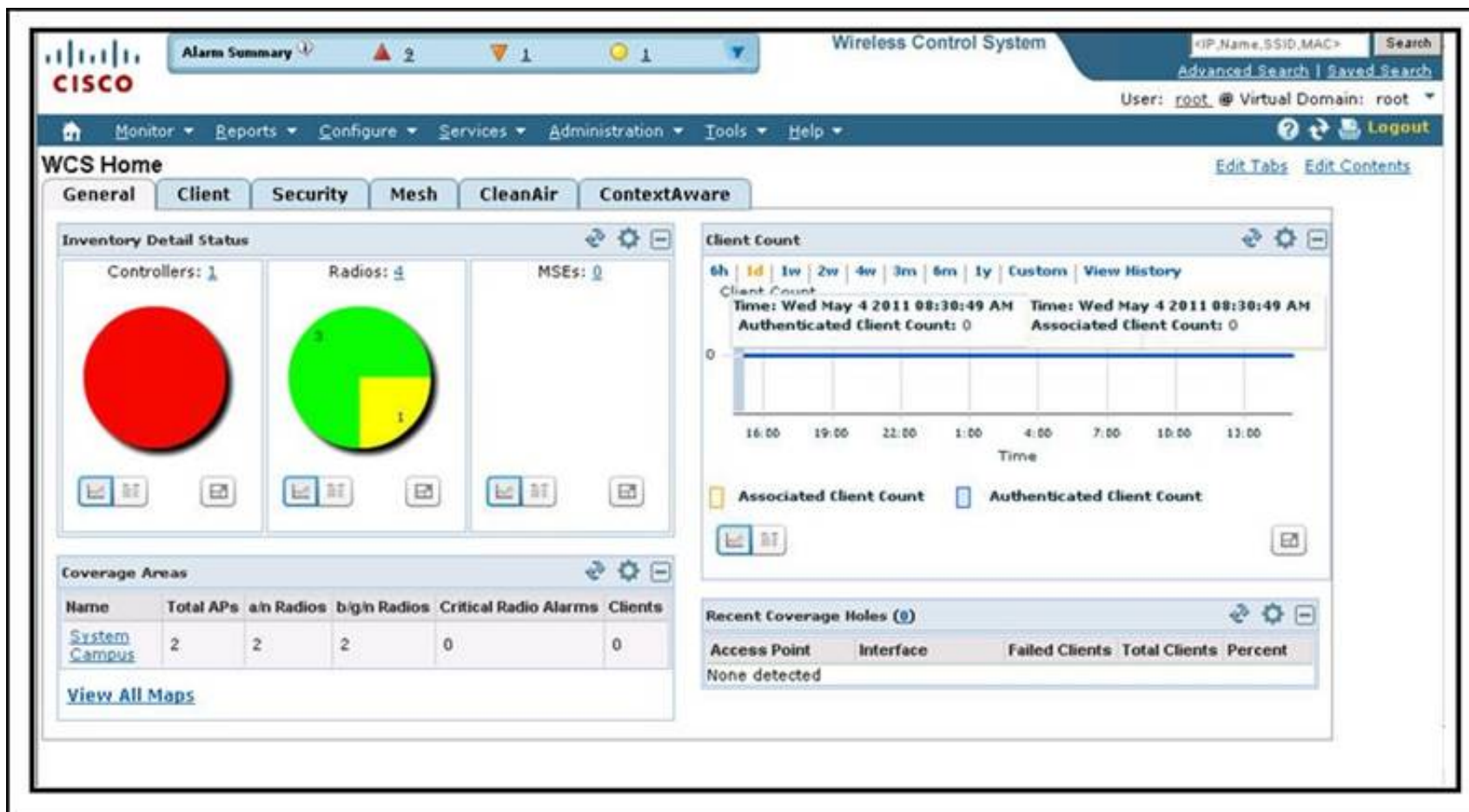
When Cisco AnyConnect modules are installed on a PC, which module must be installed first?

- A. telemetry  
 B. web security  
 C. VPN  
 D. NAM  
 E. DART  
 F. posture  
 G. CSSC

**Answer:** C

#### NEW QUESTION 496

Refer to the exhibit.



Cisco WCS version 7.0 has a configuration mismatch with what is actually running in the controller. Which menu leads to the Audit Status Report?

- A. Security
- B. Monitor
- C. Configure
- D. Services
- E. Administration
- F. Tools

**Answer:** C

#### NEW QUESTION 500

You are configuring SNMPv1/v2c on a WLC. What should you do for improved security?

- A. Remove the default SNMPv1 community.
- B. Remove the default SNMPv1 and SNMPv2 communities.
- C. Remove the default SNMPv2 community.
- D. Remove the default SNMPv3 users.

**Answer:** B

#### NEW QUESTION 501

The existing Cisco Unified Wireless Controller is running version 7.0 code for both the controllers and the Cisco WCS. A controller has been configured with an appropriate rogue rule condition to report discovered APs to the Cisco WCS.

Which default alarm level is used to display all rogue APs in the Alarm Summary?

- A. Critical
- B. Flash
- C. Urgent
- D. Major
- E. Minor

**Answer:** E

#### NEW QUESTION 505

Which option best describes the limitation of a client that is attempting to manage a WLC while using the client wireless adapter connection to the wireless infrastructure?

- A. Controllers must be managed using only secure protocols (that is, SSH and HTTPS), not nonsecure protocols (that is, HTTP and Telnet).
- B. Read-write access is not available; only read-only access is supported.
- C. Uploads and downloads from the controller are not allowed.
- D. Wireless clients can manage other controllers, but not the same controller and the AP to which the client is associated.

**Answer:** C

#### NEW QUESTION 508

Which Cisco AnyConnect module allows troubleshooting for core Cisco AnyConnect problems?

- A. telemetry
- B. web security
- C. VPN
- D. NAM



- E. DART
- F. posture
- G. CSSC

**Answer:** E

#### NEW QUESTION 509

A network engineer is troubleshooting a LAP that is unable to join the controller and receives the message below: LWAPP\_CLIENT\_ERROR\_DEBUG. No more AP manager IP addresses remain  
 What does the log indicate?

- A. Two or more LAPs have the same IP address.
- B. An AP manager has the same IP address as another AP manager.
- C. A LAP has the same IP address as the AP manager.
- D. Two or more controllers have the same IP address.

**Answer:** C

#### NEW QUESTION 511

Refer to the exhibit.



A wireless network that consists of Cisco Aironet 1260 APs and Cisco 2100 Series WLC has been correctly configured with Cisco WCS version 7, which is also used for management. The CleanAir Zone of Impact is not visible for the respective Cisco WCS maps.  
 Which two issues are causing the problem? (Choose two.)

- A. software version
- B. AP
- C. Cisco WLC
- D. Cisco MSE
- E. Cisco WCS
- F. Cisco WCS is not enabled.

**Answer:** BD

#### NEW QUESTION 513

Refer to the exhibit.



The screenshot shows the 'Syslog Configuration' page in a Cisco Wireless LAN Controller (WLC) interface. On the left is a 'Management' sidebar with a tree view containing: Summary, SNMP (General, SNMP V3 Users, Communities, Trap Receivers, Trap Controls, Trap Logs), HTTP-HTTPS, Telnet-SSH, Serial Port, Local Management Users, User Sessions, Logs (Config, Message logs). The main content area is titled 'Syslog Configuration' and includes an 'Add' button for 'Syslog Server IP Address'. Below this is the 'Syslog Server' section with 'Syslog Level' set to 'Errors' and 'Syslog Facility' set to 'Local Use 0'. The 'Msg Log Configuration' section shows 'Buffered Log Level' set to 'Errors', 'Console Log Level' set to 'Disable', and checkboxes for 'File Info' and 'Trace Info' both checked.

With the current Cisco WLC version 7.0 syslog level settings set the way they are, which log levels are captured by the Syslog server?

- A. syslog level errors only
- B. all syslog levels
- C. only the syslog severity level number of error and greater
- D. only the syslog severity level number of error and less

**Answer:** D

#### NEW QUESTION 514

When using Cisco WCS version 7.0, which two features are available for the client troubleshooting tool when a Cisco Compatible Extensions v5 wireless client gets connected? (Choose two.)

- A. Request CleanAir reports from the client
- B. Send text messages to the client
- C. Aggregated Cisco ACS authentication client information
- D. Request the client to ping the DHCP-supplied IP gateway
- E. Display a summary of client event history

**Answer:** BD

#### NEW QUESTION 519

An engineer wants to setup WPA2 Enterprise using EAP-TLS and a remote RADIUS server. What device(s) would the engineer specify the EAP type on?

- A. the supplicant and authentication server
- B. the supplicant and authenticator
- C. the authenticator and authentication server
- D. the supplicant only
- E. the authentication server only

**Answer:** A

#### NEW QUESTION 520

An access point named Cisco AP is configured on a wireless controller. Which command must you use in the controller to view access point system messages?

- A. show ap eventlog Cisco\_AP
- B. debug ap eventlog Cisco\_AP
- C. config logging Cisco\_AP
- D. show logging

**Answer:** A

#### NEW QUESTION 525

A customer needs wireless access points on a different VLAN from the controller to join via broadcast. Which two commands are required on the Layer 3 switch? (Choose two.)

- A. ip forward-protocol tcp 5246
- B. ip helper-address <WLC-Multicast-Address>
- C. ip helper-address <WLC-Virtual-Address>
- D. ip forward-protocol udp 5246
- E. ip helper-address <WLC-Management-Address>

**Answer:** DE

#### NEW QUESTION 528

Which signal does Cisco recommend using at the cell edge when performing a site survey for VoWLAN applications?

- A. -56 dBm
- B. -67 dBm
- C. -78 dBm
- D. -85 dBm

**Answer:** B

#### NEW QUESTION 531

What protocol overcomes the weaknesses of LEAP?

- A. EAP-TLS
- B. PEAP
- C. EAP-FAST
- D. EAP-TTLS

**Answer:** C

#### NEW QUESTION 532

What two access methods are enabled by default on a Cisco WLC? (Choose two.)

- A. HTTP
- B. HTTPS
- C. Telnet
- D. SSH
- E. VPN
- F. SFTP

**Answer:** BD

#### NEW QUESTION 537

The new tablets for the sales department require an SNR of 18 or more to operate. Given a noise floor of -88 dBm, what is the minimum RSSI that is needed?

- A. -60 dBm
- B. -70 dBm
- C. -72 dBm
- D. -80 dBm
- E. -96 dBm
- F. -106 dBm

**Answer:** B

#### NEW QUESTION 538

An engineer is gathering information for a wireless survey of a hospital. What three pieces of information must be collected for an active survey to assess the outcome best suited for the facility? (Choose three.)

- A. presence of microwave ovens
- B. number of patients that are at the facility
- C. utilization of Location Services or voice applications
- D. floor plans of adjacent facilities
- E. use of wireless for secure records
- F. spectrum analysis to locate all the computer work stations
- G. existing Network Switch types and model numbers
- H. type of devices present on the new wireless network

**Answer:** ACH

#### NEW QUESTION 542

What is the numerical value in dBm that corresponds to a power level of 50 mW?

- A. 16
- B. 17
- C. 18
- D. 20

**Answer:** D

#### NEW QUESTION 544

When reading a radiation pattern for an antenna, at which two drops in signal and power is the beamwidth measured? (Choose two.)

- A. 3 dB



- B. 6 dB
- C. 9 dB
- D. 10 dB
- E. 1/2 power
- F. 1/4 power
- G. 1/8 power
- H. 1/10 power

**Answer:** AE

#### NEW QUESTION 546

What authentication method requires a certificate on both the client and authentication server?

- A. PEAP
- B. EAP-TLS
- C. EAP-FAST
- D. WPA-PSK
- E. WEP
- F. EAP-TTLS

**Answer:** B

#### NEW QUESTION 549

A customer wants to analyze the data rates that are available to a corporate laptop in its wireless deployment. The customer wants a heat map that displays actual data and shows the data rates that are available to the client in different areas of its facility. When using AirMagnet Survey PRO, which type of survey provides the actual data rates?

- A. virtual
- B. predictive
- C. passive
- D. active

**Answer:** D

#### NEW QUESTION 553

Which two elements are needed to create a secure SSID on an autonomous AP? (Choose two.)

- A. SSID name
- B. WLC MAC address
- C. PSK
- D. LDAP server
- E. WLC IP

**Answer:** AC

#### NEW QUESTION 555

Drag the propagation behavior on the left to the corresponding environment on the right.

Drag the propagation behavior on the left to the corresponding environment on the right.

Absorption	Distant Point to Point Line of Sight
Diffraction	Distant Point to Point with Obstacles
Scattering	Metal Cabinets in Dense Office
Reflection	Pass Through a Wooden Wall
Free Space Path Loss	Pass Through Rain
Multipath	Point to Point Over Body of Water

**Answer:**

**Explanation:**

Drag the propagation behavior on the left to the corresponding environment on the right.

Absorption	Free Space Path Loss
Diffraction	Diffraction
Scattering	Multipath
Reflection	Absorption
Free Space Path Loss	Scattering
Multipath	Reflection

#### NEW QUESTION 557

What encryption standards describe WPA and WPA2?

- A. WPA mandates AES with TKIP optional, WPA2 mandates TKIP
- B. WPA mandates TKIP with AES optional, WPA2 mandates AES
- C. WPA mandates CKIP, WPA2 mandates AES
- D. WPA mandates CKIP with AES optimal, WPA2 mandates AES

**Answer: B**

#### NEW QUESTION 562

Which option is the maximum power setting for an access point in any regulatory domain on a Cisco Wireless LAN Controller?

- A. 5
- B. 8
- C. 1
- D. 10

**Answer: C**

#### NEW QUESTION 565

On which two OSI layers does the IEEE focus in 802 standardization? (Choose two.)

- A. physical
- B. data-link
- C. network
- D. transport
- E. session
- F. presentation
- G. application

**Answer: AB**

#### NEW QUESTION 566

What is the channel width of an 802.11b wireless channel?

- A. 10 MHz
- B. 20 MHz
- C. 5 MHz
- D. 22 MHz

**Answer: D**

#### NEW QUESTION 568

An engineer has been asked to disable all OFDM rates in the wireless environment. What three rates should be disabled to fulfill this requirement? (Choose three.)

- A. 2
- B. 5.5
- C. 6
- D. 9
- E. 11

F. 12  
G. 18

**Answer:** ABE

#### NEW QUESTION 573

During the deployment of a wireless network for data and location services, an engineer is to fine-tune the location services. What is this type of survey called?

- A. passive fingerprinting
- B. passive calibrating
- C. active fingerprinting
- D. active calibrating

**Answer:** A

#### NEW QUESTION 578

What AnyConnect module can be used to provide a detailed scan list of the Wi-Fi environment?

- A. DART
- B. Telemetry
- C. Web Security
- D. NAM
- E. Posture

**Answer:** A

#### NEW QUESTION 579

A user is unable to access a lobby administration web page when using a wireless laptop; however, the user can access the page with a wired desktop computer. Which management feature needs to be enabled on the WLC to allow laptop access?

- A. management via wireless
- B. dynamic interface management
- C. HTTP
- D. HTTPS
- E. TACACS
- F. SSH

**Answer:** A

#### NEW QUESTION 582

Which operating mode is valid for controllers in a converged access architecture?

- A. switch peer groups
- B. mobility controller
- C. auto-anchor
- D. foreign anchor

**Answer:** B

#### NEW QUESTION 583

Which join process is performed when a Windows client initially attempts to connect to a wireless network?

- A. The machine transmits probes that contain an ad hoc advertisement request for SS1D name
- B. The machine transmits beacon requests that contain a null or empty SS1D name
- C. The machine transmits probe requests that contain a null or empty SSID name
- D. The machine transmits beacons that contain an ad hoc advertisement request for SSID name

**Answer:** C

#### NEW QUESTION 586

What tool can be used to increase accuracy of WCS heat maps?

- A. Map Editor
- B. Planning Tool
- C. CleanAir
- D. Cisco Spectrum Expert

**Answer:** A

#### NEW QUESTION 591

A customer wants to identify the amount of BSSID traffic that is propagating through its facility from neighboring networks. Which tool can be used to identify BSSID traffic in the facility?

- A. Wi-Fi scanner
- B. wireless attenuator



- C. RF jammer
- D. Cisco Identity Services Engine

**Answer:** A

#### NEW QUESTION 593

When calculating the link budget for a wireless point-to-point bridge, the engineer notices that one antenna has its gain marked as 2.85 dBd. With a 20-mW access point and 3-dBi loss for the cable, what is the approximate EIRP?

- A. 15 dBm
- B. 18 dBm
- C. 22 dBm
- D. 25 dBm

**Answer:** A

#### NEW QUESTION 596

Wireless clients are experiencing loss of connectivity while roaming between controllers. To fix this, what configuration should be the same on all controllers within the mobility group?

- A. management interface IP address
- B. IP address of the virtual interface
- C. AP Manager interface IP address
- D. IP address of the Service Port

**Answer:** B

#### NEW QUESTION 597

What two methods of authentication are available for Local EAP?

- A. LDAP and RADIUS
- B. Local and RADIUS
- C. Local Only
- D. LDAP and Local

**Answer:** D

#### NEW QUESTION 598

What three configuration options can be executed by navigating to the WCS Administration > AAA menu? (Choose three.)

- A. Add a Lobby Ambassador guest
- B. Add a LDAP server
- C. Add an administrative user
- D. Add a MAC address list filter
- E. Add a RADIUS server
- F. Add a TACAS+ server

**Answer:** CEF

#### NEW QUESTION 601

Which architecture is used to divide the roles between the access point and the WLC when deploying a centralized wireless solution?

- A. Split MAC
- B. CAPWAP
- C. LWAPP
- D. Local MAC

**Answer:** A

#### NEW QUESTION 602

What two capabilities would be present on a wireless client device that supports CCXv3? (Choose two.)

- A. WPA2
- B. 802.1x
- C. PEAP-MSCHAP
- D. NAC
- E. MFP
- F. EAP-TLS

**Answer:** AB

#### NEW QUESTION 607

An engineer is troubleshooting why wireless clients have not been able to connect to the network. Where would an engineer verify the total number of excluded clients in the last day?

- A. Security > Miscellaneous
- B. Security > Rogues
- C. Alarms
- D. Events
- E. Clients > Troubleshoot
- F. Access Points

**Answer:** A

#### NEW QUESTION 609

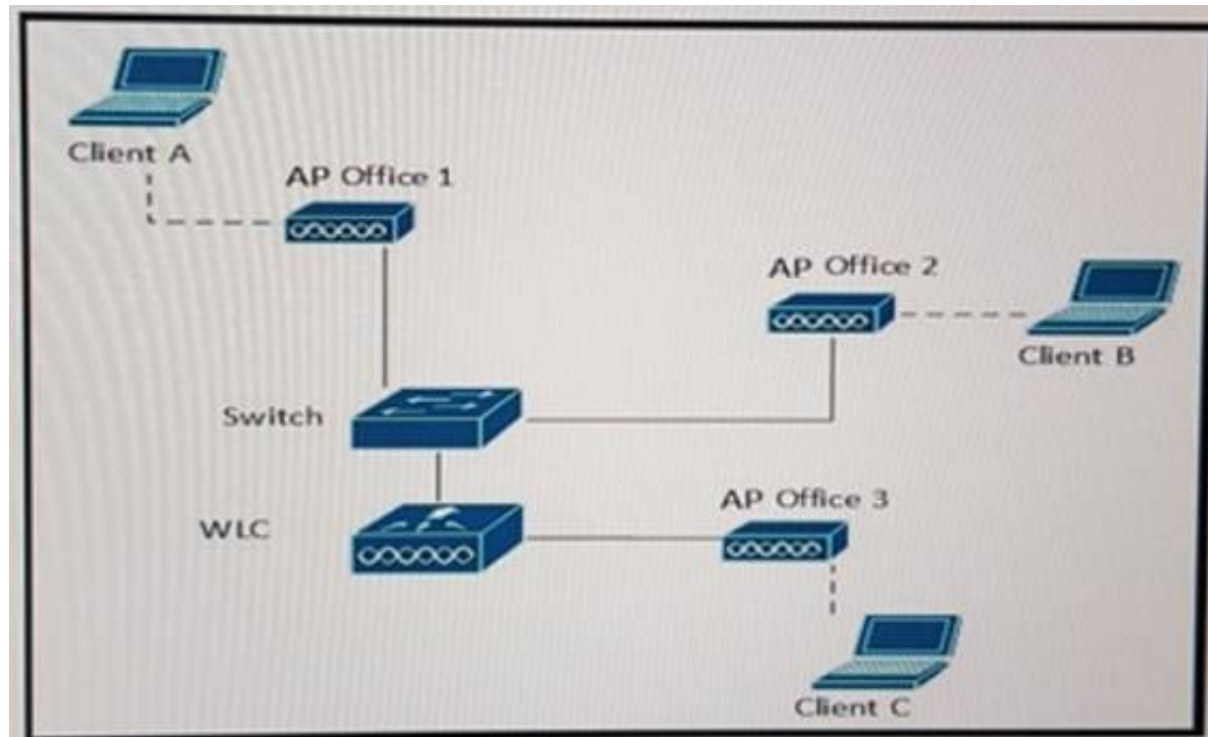
On witch tab ofthe WLC web interface can the administrator change the AP power level?

- A. WLAN
- B. Management
- C. Controller
- D. Wireless

**Answer:** D

#### NEW QUESTION 613

Refer to the exhibit.



A Company added a Cisco Wireless LAN Controller to the network and converted all Aps to lightweight Aps. What is the hop order of the data packets when travelling from Client A to Client B, if the Aps are in local mode?

- A. AP Office 1, Switch, WLC, Switch, AP Office 2
- B. AP Office 1, WLC, AP Office 2
- C. AP Office 1, WLC, Switch, AP Office 2
- D. AP Office 1, Switch, WLC, AP Office 2

**Answer:** B

#### NEW QUESTION 614

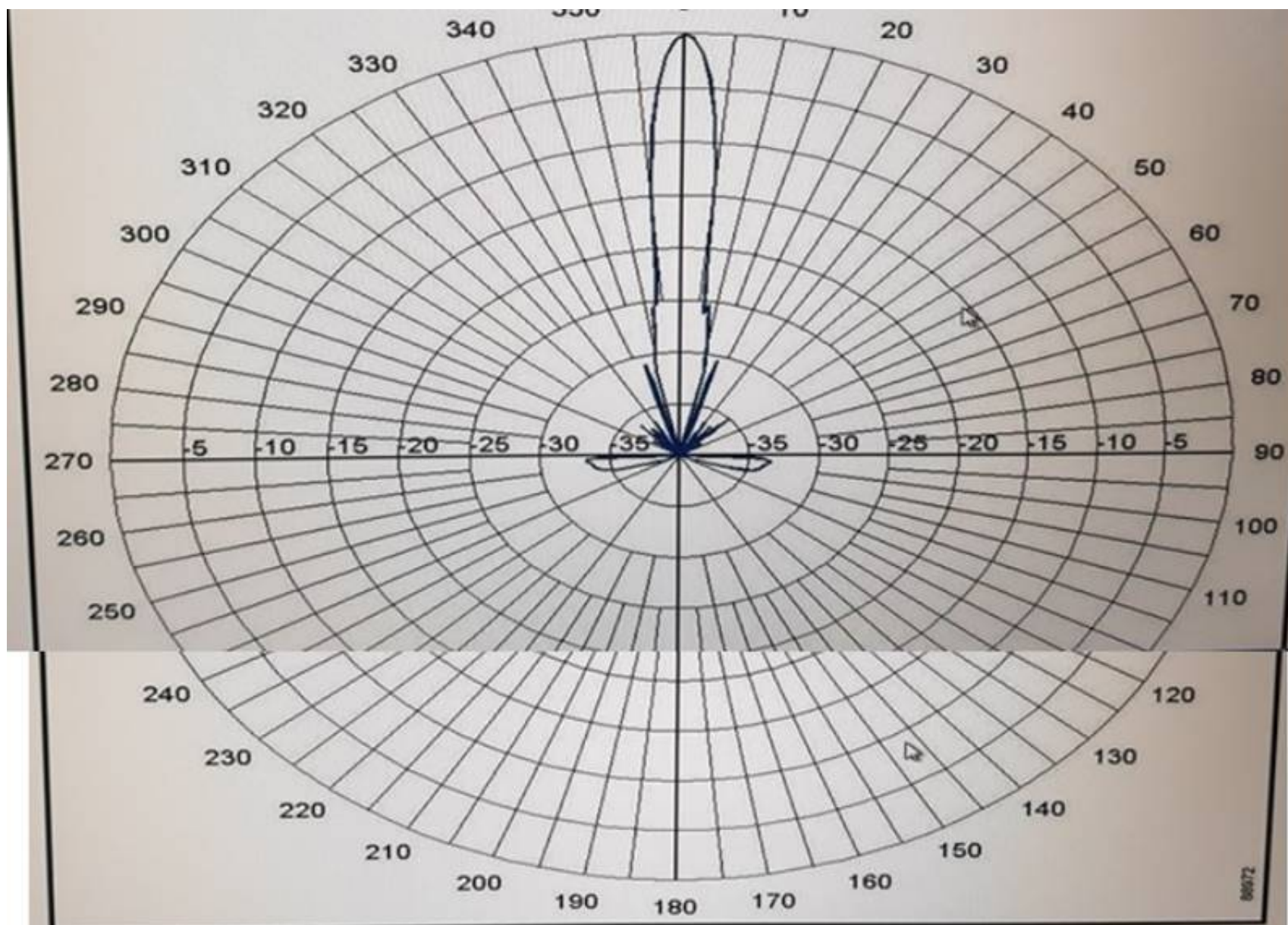
A customer wants to use Cisco Prime Infrastructure to manage its current wireless infrastructure. The customer has 4 wireless controllers and 97 wireless access points. What is the minimum amount of licensing that is required on Cisco Prime Infrastructure to support the desired wireless infrastructure?

- A. 4 Lifecycle licenses and 125 Base licenses
- B. 100 Lifecycle licenses and 1 Base license
- C. 100 Lifecycle licenses and 4 Base licenses
- D. 125 Lifecycle licenses and 1 Base license

**Answer:** B

#### NEW QUESTION 617

Refer to the Exhibit.



Which type of antenna does the H-plane pattern show?

- A. vertically polarized sector
- B. dipole
- C. diversity patch
- D. directional dish

**Answer:** A

#### NEW QUESTION 622

Due to the terrain, a deployment requires a point-to-point wireless bridge to allow for network connectivity to a remote building. What 5GHz band would be permitted to use the highest power in the U.S.?

- A. U-NII-3
- B. U-NII-2 Extended
- C. U-NII-2
- D. U-NII-1

**Answer:** A

#### NEW QUESTION 627

What WCS report displays hardware type, software distribution, and CDP information?

- A. Device > AP Profile Status
- B. Device > AP Summary
- C. Network Summary > Executive Summary
- D. Device > Inventory
- E. Network Summary > 802.11n Summary

**Answer:** D

#### NEW QUESTION 631

Which three primary components describe TKIP? (Choose three.)

- A. broadcast key rotation
- B. per-packet key hashing
- C. dynamic WEP
- D. message integrity check
- E. symmetric key cipher
- F. WPA2 enterprise mode

**Answer:** ABD

#### NEW QUESTION 633



An engineer has been noticing the power settings on several of the office APs change from day to day ever since two more APs were installed. After logging into the WLC, the engineer verifies that the power levels on 4 of the 802.11n radios are fluctuating up and down. What is the reason for this?

- A. The controller has the APs in H-REAP mode and are on a Layer 2 connection instead of Layer 3.
- B. The RRM has revealed a bad survey and is attempting to power down some of the radios to make up for it.
- C. The WLC has created temporary coverage holes while stepping through power levels for some of the APs.
- D. Several APs have high levels of overlapping coverage in the same area and the WLC is using RRM to correct the cell sizes AP coverage.

**Answer:** D

#### NEW QUESTION 638

Which software application tool can be used for verification of signal strength?

- A. inSSIDer
- B. LANDnav
- C. WLC-EAP
- D. ICMP

**Answer:** B

#### NEW QUESTION 639

Which two access point modes support infrastructure MFP? (Choose two.)

- A. sniffer
- B. rogue detector
- C. bridge
- D. local
- E. FlexConnect

**Answer:** DE

#### NEW QUESTION 641

The Cisco WLC administrator needs the guest client traffic to be sent via a tunnel to a specified controller in the DMZ, no matter which AP the guest user is connected to. What must be configured for a WLAN to achieve this requirement?

- A. asymmetric tunneling
- B. static mobility anchor
- C. symmetric tunneling
- D. FlexConnect

**Answer:** B

#### NEW QUESTION 645

Which signal strength reading indicates that the engineer is closest to the access point?

- A. -43 dBm
- B. -67 dBm
- C. -87 dBm
- D. -100 dBm

**Answer:** A

#### NEW QUESTION 650

What three components are required to configure Mobility Group Members between Wireless LAN Controllers? (Choose three.)

- A. Controller Management IP Address
- B. Controller Virtual IP Address
- C. Controller Multicast IP Address
- D. Controller MAC Address
- E. Controller Mobility Group Name
- F. Controller AP Management IP Address
- G. Controller RFGroup Name

**Answer:** ADE

#### NEW QUESTION 653

From which type of diagnostic equipment must you request screenshots and recordings of possible sources of interference when you have a survey vendor perform a site survey?

- A. data link circuit identifier
- B. access point
- C. virtual path virtual circuit
- D. spectrum analysis software

**Answer:** D

#### NEW QUESTION 655

Which two statements are characteristics of 2.4 GHz frequency band in a wireless environment? (Choose two.)

- A. 14 available channels.
- B. FCC allows channels 1 through 11.
- C. FCC allow channels 1 through 14.
- D. FCC allow channels 1 through 15.
- E. 11 available channels.

**Answer:** AB

#### NEW QUESTION 657

An AP using version 8.0 broadcasts a Layer 3 CAPWAP discovery message on the local IP subnet. Which step does the AP take next?

- A. Send a discovery request using locally stored information on the AP.
- B. Determine if the controller responses include the primary controller.
- C. Send a discovery request using DNS.
- D. Send a discovery request using DHCP option 43.

**Answer:** A

#### NEW QUESTION 659



Refer to the exhibit. An engineer wants to setup a mobility anchor for the Guest WLAN, but does not see the Anchor IP address listed in the drop-down. What is the most likely cause of this problem?

- A. The mobility anchor is currently unreachable.
- B. The mobility anchor must also be included in the mobility group of the WLC.
- C. Layer 3 Security must be configured for Web Policy Authentication.
- D. The mobility anchor is attached to another WLAN.
- E. Layer 3 Security must be configured for Web Policy Passthrough.

**Answer:** B

#### NEW QUESTION 663

An engineer is adding a controller to a WCS. What three categories of parameters are needed? (Choose three.)

- A. IP parameters
- B. SNMP Parameters
- C. Mobility Parameters
- D. Telnet/SSH Parameters
- E. TFTP Parameters
- F. RADIUS Parameters

**Answer:** ABD

#### NEW QUESTION 668

Which is recommended minimum SNR for a data cell with a data rate of 54 Mb/s?

- A. 10
- B. 25
- C. 4
- D. 6

**Answer:** B

#### NEW QUESTION 671

What are three functions of RRM? (Choose three.)

- A. dynamic channel assignment
- B. detection and avoidance of interference
- C. dynamic antenna polarization
- D. dynamic transmit power control
- E. dynamic controller selection
- F. detection and avoidance of AP client load

**Answer:** ABD

#### NEW QUESTION 675

An engineer is connecting a Cisco 5508 Wireless Controller that must connect to an out-of-band management network for management only. Which two options should be used for the port on the WLC and the cable type? (Choose two.)

- A. service port
- B. redundancy port
- C. console port
- D. distribution system port
- E. straight through cable
- F. crossover cable
- G. console cable

**Answer:** AE

#### NEW QUESTION 677

When using DHCP option 43, the discovery option supports vendor specific identifiers in order to obtain what IP address?

- A. core router's gateway
- B. closest distribution switch
- C. local WLAN controller
- D. local Radius Server

**Answer:** C

#### NEW QUESTION 682

Which command is used to upgrade the operational code when upgrading a Cisco IOS-XE WLC?

- A. software install source switch
- B. software install file path:code.bin
- C. software tftp://code.bin flash:/code.bin
- D. software expand running

**Answer:** B

#### NEW QUESTION 685

A network engineer is configuring a WLC running Cisco AireOS 8.0.100.0 for a company that uses IPv6. Which two interfaces can be configured with an IPv6 address? (Choose two.)

- A. management
- B. dynamic
- C. AP manager
- D. redundancy
- E. service

**Answer:** AE

#### NEW QUESTION 690

Periodically, Radio Resource Management can reconfigure the wireless network for best efficiency. Which two functions can be changed to meet network demands? (Choose two.)

- A. Remove clients that use too much bandwidth.
- B. Transmit Power Control
- C. Disable AP radios that do not provide adequate coverage.
- D. Change channels to non-country channels if needed
- E. Radio Monitoring for noise and interference.

**Answer:** BE

#### NEW QUESTION 693

A customer is using the wireless controller GUI to back up the Cisco 5508 Wireless Controller configuration data. The controller is running IOS version 7.6 release. Which three transfer protocols are valid for conducting this transfer from the WLC? (Choose three.)

- A. FTP
- B. TFTP
- C. SFTP
- D. HTTP
- E. SCP
- F. Xmodem

**Answer:** ABC

#### NEW QUESTION 696

Which purpose does a spectrum analyzer serve during a site survey?

- A. Detect and measure RF energy on a frequency.
- B. Identify and monitor rogue APs in the environment



- C. Capture and save RF traffic to analyze it offline.
- D. Generate a list of interference reports.

**Answer:** A

#### NEW QUESTION 698

End-to-end encryption is a management requirement for a wireless deployment. When importing the WLCs into Cisco Prime infrastructure 2.0, Which two options represent the version of SNMP and remote access parameter that fulfill this requirement? (Choose two)

- A. HTTPS
- B. SNMPv3
- C. SNMPv2c
- D. SNMPv1
- E. SSH

**Answer:** AD

#### NEW QUESTION 702

What is a function of the service port on a WLC?

- A. controls mobility manager communications on all physical ports
- B. controls out-of-band management for system recovery and maintenance
- C. controls communication with Cisco Aps
- D. controls communications for all physical ports

**Answer:** B

#### NEW QUESTION 706

A client is deploying lightweight APs. Those with LAN connections to the controller would be considered what mode of deployment, while access points deployed across a higher latency connection are deployed in what mode?

- A. HREAP; Bridge
- B. Local; Bridge
- C. HREAP; Flex Connect
- D. Local; Flex Connect

**Answer:** D

#### NEW QUESTION 709

When roaming between APs in an ESS, which value changes?

- A. BSSID
- B. SSID
- C. VLAN
- D. IP range

**Answer:** A

#### NEW QUESTION 712

Refer to the exhibit.

All APs > Details for 27021-A

General | Credentials | Interfaces | High Availability | Inventory | Advanced

General

AP Name: 27021-A

Location:

AP MAC Address: 7c:0e:ce:f5:24:dc

Base Radio MAC: 80:17:06:08:94:f0

Admin Status: Enable

AP Mode: local

AP Sub Mode: None

Operational Status: REG

Port Number: 1

Venue Group: Unspecified

Venue Type: Unspecified

Add New Venue

Language: Venue Name

Network Spectrum Interface Key: 8564808B12E8A80EF02FCC4494243D5C

GPS Location:

GPS Present: No

Hardware Reset

Perform a hardware reset on this AP

Reset AP Now

Set to Factory Defaults

Clear configuration on this AP and reset it to factory defaults

Clear All Config

Clear Config Except Static IP

Versions

Primary Software Version: 8.3.121.0

Backup Software Version: 0.0.0.0

Predownload Status: None

Predownload Version: None

Predownload Next Retry Time: NA

Predownload Retry Count: NA

Boot Version: 15.2-4.5

IOS Version: 15.2(3)D54

Mini IOS Version: 7.6-10C.D

IP Config

CAPWAP Preferred Mode: On (Global Config)

DHCP IPv4 Address: 192.168.156.105

Static IP (IPv4/IPv6):

Time Statistics

UP Time: 39 d, 23 h 05 m 09 s

Controller Associated Time: 35 d, 22 h 54 m 24 s

Controller Association Latency: 0 d, 00 h 05 m 52 s

When the Admin Status of an access point is enabled, what does this mean in radios?

- A. 802.11a/n/ac is DOWN
- B. but the 802.11 b/g/n radio is UP by default.
- C. 802.11a/rVac is U
- D. but the 802.11 b/g/n radio is DOWN by default.
- E. 802.11a/n/ac and 802\_11 b/g/n radios can be UP or DOWN.
- F. 802\_11a/n/ac and 802.11 b/g/n radios must be UP.

Answer: A

#### NEW QUESTION 717

Which three access point modes service clients? (Choose three.)

- A. FlexConnect
- B. bridge
- C. sniffer
- D. local
- E. monitor
- F. SE-Connect

Answer: ABD

#### NEW QUESTION 719

How many channels exist in the 2.4-GHz ISM band frequency space?

- A. 14
- B. 16
- C. 20
- D. 24

Answer: A

#### NEW QUESTION 724

An engineer has just deployed a Cisco Aironet 3702 Access Point with an access layer switch that supports IEEE 802.1af Power over Ethernet. How will the access points react to the wattage that is available in 802.1af?

- A. disable the BVI interface
- B. fail to boot in CAPWAP mode
- C. operate in 3x3 MIMO mode

D. enable the 2.4-GHz radios with 40-MHz channel bonding

**Answer:** C

#### NEW QUESTION 729

A customer is reviewing Cisco Prime Infrastructure to identify malicious rogue access points that are operating within the customer environment. Which dashboard in Cisco Prime Infrastructure displays this information by default?

- A. Context Aware
- B. CleanAir
- C. Security
- D. General

**Answer:** C

#### NEW QUESTION 731

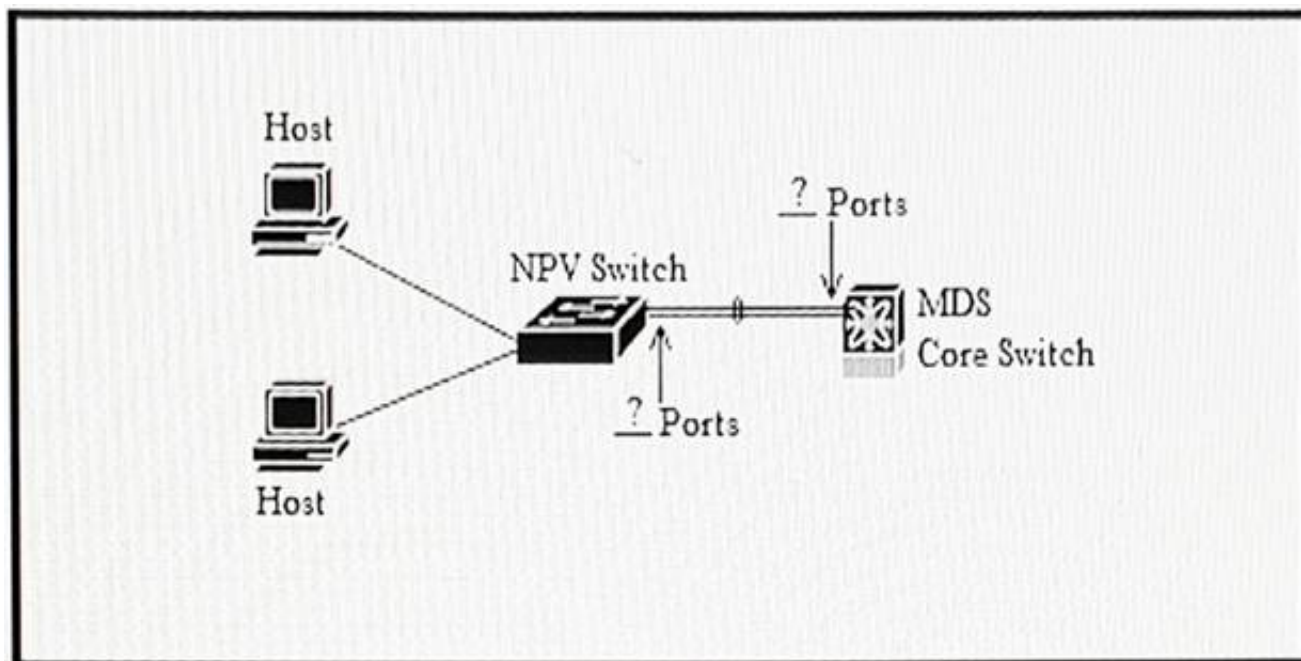
A wireless client with ID28720486 is trying to connect to wireless network. What must be configured on the client side to connect to an infrastructure WLAN that broadcasts its SSID and uses WPA2 PSK?

- A. PSK
- B. type of EAP protocol
- C. username and password
- D. channel number

**Answer:** A

#### NEW QUESTION 735

Refer to the exhibit.



An engineer is implementing a new network design that includes a port channel to connect an MDS core switch and an VPN switch. Which two Fibre Channel port types must be used to create the Fibre Channel port channel? (Choose two.)

- A. NL Port
- B. F Port
- C. NP Port
- D. E Port
- E. N Port
- F. TL Port

**Answer:** BC

#### NEW QUESTION 739

A customer is concerned about ease of wireless management. Which deployment model requires the highest administrative overhead to deploy and manage?

- A. autonomous
- B. local mode
- C. cloud
- D. converged

**Answer:** A

#### NEW QUESTION 742

What three components must be the same on a controller and the RADIUS server when adding a RADIUS server to a WLC? (Choose three.)

- A. Username
- B. Shared Secret
- C. Index Priority
- D. Port Number
- E. IP Address



F. Network Mask

**Answer:** BDE

#### NEW QUESTION 747

Which two are considered as characteristics of the original 802.11 protocol? (Choose two.)

- A. Defined DSSS and FHSS as possible methods for modulation.
- B. Designed to operate in the 5 GHz ISM frequency spectrum.
- C. The most common deployment is three non-overlapping channels that are 20 MHz wide.
- D. Defined FHSS and OFDM as possible methods for modulation.

**Answer:** AC

#### NEW QUESTION 749

Which two characteristics are components of mobility anchoring? (Choose two.)

- A. It is enabled as a global setting.
- B. Only one mobility anchor is allowed per WLAN.
- C. It is enabled on a per WLAN basis.
- D. Client traffic is tunneled to predefined WLC(s).
- E. It acts as master controller for a mobility group.

**Answer:** CD

#### NEW QUESTION 752

What are three characteristics of WCS? (Choose three.)

- A. based on a single server licensing system
- B. used for wireless planning
- C. used for real-time tracking of multiple clients
- D. used for wireless management
- E. used for RF fingerprinting
- F. based on a per server licensing system

**Answer:** ABD

#### NEW QUESTION 756

A wireless engineer with ID28720486 is troubleshooting an RF issue. Which device in the lightweight WLAN architecture is responsible for RF management?

- A. Prime Infrastructure
- B. WLC
- C. Lightweight access point
- D. MSE

**Answer:** B

#### NEW QUESTION 759

On the Cisco Wireless LAN Controller GUI, what sub-menu option under the Command menu will transfer code and configuration files to the controller?

- A. Download File
- B. Upload File
- C. Download Configuration
- D. Upload Configuration

**Answer:** A

#### NEW QUESTION 762

An enterprise needs their iPhones to connect to the EAP-TLS network. How should the devices be configured?

- A. push profile and certificate through Configuration Utility
- B. configure directly through Settings application
- C. email certificate to device then configure through Settings application
- D. download certificate from web page then configure through Settings application
- E. push profile and certificate through iTunes

**Answer:** A

#### NEW QUESTION 767

In what WCS menu would an engineer locate the WCS software version?

- A. Administration > Settings
- B. Help > About Cisco WCS
- C. Help > Online Help
- D. Administration > License Center

Answer: B

#### NEW QUESTION 770

A customer wants to deploy Cisco Cloud Wireless architecture with 802.11ac capabilities. Which access points would meet the customers' requirements? (Choose two.)

- A. Cisco 3700 Access Points
- B. Cisco MR34 Access Points
- C. Cisco MR18 Access Points
- D. Cisco 3600 Access Points
- E. Cisco MR72 Access Points
- F. Cisco 1570 Access Points
- G. Cisco MR26 Access Points

Answer: BE

#### NEW QUESTION 772

An engineer has been asked to upgrade the code on a WLC that is running Cisco AireOS 8.0. Which two protocols can be used to download the code file to the controller? (Choose two.)

- A. SNMPv2c
- B. FTP
- C. SNMPv3
- D. SFTP
- E. HTTPS

Answer: BD

#### NEW QUESTION 777

Refer to the exhibit.



MAC Address	RF Name	Station	WLAN	Associated
00:1d:11:00:00:00	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:01	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:02	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:03	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:04	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:05	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:06	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:07	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:08	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:09	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:0A	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:0B	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:0C	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:0D	CACTO-00	Associated	WLAN-1	Yes
00:1d:11:00:00:0E	CACTO-00	Associated	WLAN-1	Yes

Which command was given in the wireless controller to display the active clients that are associated with an access point?

- A. show client active all
- B. show client summary
- C. show 802.11 association
- D. show ap clients

Answer: C

#### NEW QUESTION 779

Which three configuration elements must match for a client to successfully associate to a standalone AP? (Choose three.)

- A. BVI subnet
- B. PSK
- C. AP name
- D. SSID
- E. encryption method
- F. gateway IP

Answer:

BDE

NEW QUESTION 783

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