



200-355^{Q&As}

Implementing Cisco Wireless Network Fundamentals

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QUESTION 1

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

Correct Answer: A

Explanation/Reference:

Rogue Containment Caveats <http://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/112045-handling-rogue-cuwn-00.html>

QUESTION 2

When the pre-shared key authentication method is used for WPA or WPA2, for which two functions is the pre-shared key used? (Choose two.)

- A. to act as the Group Transient Key during the bidirectional handshake
- B. to act as the Pairwise Master Key during the bidirectional handshake
- C. to derive the nonce at each side of the exchange
- D. to derive the Pairwise Transient Key

Correct Answer: BD

Explanation/Reference:

Pre-shared key (PSK) is computed based on a shared secret (pass-phrase) which was previously shared between the two parties using some secure channel before it needs to be used. It is used to identify both peers to each other. The strength of the PSK depends on the strength of the pass-phrase. The strength of the PSK is important, because WPA-Personal (and WPA2-Personal) use the PSK as the Pairwise Master Key (PMK). The PMK, when combined with two random numbers (nonces) and the MAC addresses of the access point and the client, produces a unique Pairwise Transient Key (PTK) that secures the unicast traffic between the access point and the client. A new PTK is produced each time a client connects to the access point.

QUESTION 3

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

Correct Answer: CEF

QUESTION 4

Which option lists the key features of Cisco Compatible Extensions v5?

- A. Roaming and real-time diagnostics, MFP, a diagnostic channel that allows troubleshooting of the client, client reporting, optional location service, and expedited bandwidth
- B. AP assisted roam, Cisco Centralized Key Management, radio measurements, and transmit power control
- C. CAC, UPSD, voice metrics, MBSSIDs, location, link tests, and NAC
- D. WME, proxy ARP, EAP-FAST, and WPA2, and single sign-on
- E. LEAP, WPA, 802.1x and VLANs per AP, TKIP, and WiFi

Correct Answer: A

Explanation/Reference:

http://www.cisco.com/web/partners/downloads/765/ccx/Comp_Ext_Cust_Preso.pdf

QUESTION 5

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

Correct Answer: C

Explanation/Reference:

The wireless network at UNCG allows visitors to establish an unsecured connection. The unsecured network is



available as a self-service wireless profile. http://its.uncg.edu/Network_Services/Wireless/Connect/Guest/

QUESTION 6

Which Cisco AnyConnect module provides wireless connectivity?

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

Correct Answer: D

Explanation/Reference:

The main components used in IUWNE are the Cisco AnyConnect Mobility Client itself, associated with the Network Access Module (NAM) used to manage existing profiles and provide the wireless connectivity.

QUESTION 7

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

Correct Answer: C

QUESTION 8

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

Select and Place:



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

802.11 frame translation and bridging	Controller	Target
mobility management		Target
encryption downstream		Target
providing real-time signal-quality information	AP	Target
QoS policies		Target
decryption upstream		Target

Correct Answer:

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

	Controller	QoS policies
		mobility management
		802.11 frame translation and bridging
	AP	providing real-time signal-quality information
		encryption downstream
		decryption upstream

QUESTION 9

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.

Correct Answer: BD

QUESTION 10

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

Select and Place:



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 association and re-association
beacons
client authentication
encryption / decryption
RF management
transmission and buffering of frames

Access Point
Controller



Correct Answer:

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

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



QUESTION 11

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

Correct Answer: ABD

QUESTION 12

Select and Place:

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.

Correct Answer:

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

	EAP-MD5
	PEAP
	EAP-TLS
	LEAP
	EAP-FAST

QUESTION 13

Select and Place:

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.	



Correct Answer:

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

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



QUESTION 14

An engineer would like to setup secure authentication for a wireless network that will utilize single sign-on. Which two authentication methods can be used to accomplish this? (Choose two.)

- A. LDAP
- B. RADIUS
- C. Local authentication
- D. WEP
- E. PSK

Correct Answer: AB

QUESTION 15

What are four features of WPA? (Choose four.)

- A. a larger initialization vector, increased to 48 bits
- B. a message integrity check protocol to prevent forgeries
- C. authenticated key management using 802.1X
- D. support for a key caching mechanism
- E. unicast and broadcast key management
- F. requires AES-CCMP

Correct Answer: ABCE

Explanation/Reference:



TKIP and the related WPA standard implement three new security features to address security problems encountered in WEP protected networks. First, TKIP implements a key mixing function that combines the secret root key with the initialization vector before passing it to the RC4 initialization. WEP, in comparison, merely concatenated the initialization vector to the root key, and passed this value to the RC4 routine. This permitted the vast majority of the RC4 based WEP related key attacks. Second, WPA implements a sequence counter to protect against replay attacks. Packets received out of order will be rejected by the access point. Finally, TKIP implements a 64-bit Message Integrity Check (MIC). To be able to run on legacy WEP hardware with minor upgrades, TKIP uses RC4 as its cipher. TKIP also provides a rekeying mechanism. TKIP ensures that every data packet is sent with a unique encryption key. Key mixing increases the complexity of decoding the keys by giving an attacker substantially less data that has been encrypted using any one key. WPA2 also implements a new message integrity code, MIC. The message integrity check prevents forged packets from being accepted. Under WEP it was possible to alter a packet whose content was known even if it had not been decrypted. http://en.wikipedia.org/wiki/Temporal_Key_Integrity_Protocol
<http://documentation.netgear.com/reference/fra/wireless/WirelessNetworkingBasics-3-14.html>

QUESTION 16

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 preshared 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

Correct Answer: D

Explanation/Reference:

Choose Monitor > Clients to open the Clients page.

This page lists all of the clients that are associated to the controller's access points. It provides the following information for each client:

http://www.cisco.com/c/en/us/td/docs/wireless/controller/7-4/configuration/guides/consolidated/b_cg74_CONSOLIDATED/b_cg74_CONSOLIDATED_chapter_01000000.html

QUESTION 17

Which framework of services is used to gather over the air information for the Neighbor Discovery Protocol, load, interference, and noise?

- A. RRM
- B. BSSID
- C. EIRP



D. SNR

Correct Answer: A

QUESTION 18

A wireless engineer is designing a network for the London branch of a company. Which 5-GHz band allows the branch to use the highest EIRP?

- A. 2.4-GHz ISM
- B. UNII-1
- C. UNII-2
- D. UNII-2 Extended

Correct Answer: D

QUESTION 19

Refer to the exhibit.



Troubleshooting Client 'd4:17:6a:d4:75:17'

Summary | Log Analysis | Event History | ACS View Server | Context Aware History

802.11 Association | IP Address Assignment | Web Authentication | Successful Association

Problem
Client could not complete the dhcp interaction.

Suggested Action
Check whether the DHCP server is reachable.
Check whether dhcp server is configured to serve the WLAN.
Check whether dhcp scope is exhausted.
Check whether multiple dhcp servers are configured with overlapping scopes.
Check local dhcp server is present if dhcp bridging mode enabled (move it to second) client is configured to get address from dhcp server.
Check if client has static ip configured and ensure client generates ip traffic * if ipsec wlan, ensure that client is configured to do dhcp exchanges in open (safenet/netscreen default config does not include it).

Which tool is shown?

- A. Cisco WCS client troubleshooting tool
- B. Cisco WLC client troubleshooting tool
- C. WLAN Client Debug Analyzer
- D. Cisco WLAN Connection Advisor

Correct Answer: A

Explanation/Reference:

Please go through the link to understand more about the Cisco WCS Client Troubleshooting tool:
<http://www.cisco.com/web/techdoc/wcs/cleanair/client-troubleshooting/CleanAir-ClientTroubleshooting.html>

QUESTION 20

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

Correct Answer: A

QUESTION 21

A customer is using the access point GUI to upgrade the software on an autonomous access point to convert it to a lightweight access point. Which two transfer protocols are valid for conducting this transfer from the WLC? (Choose two.)

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

Correct Answer: DF

QUESTION 22

Which two WLC debug commands are appropriate to troubleshoot a wireless client that is associated to an AP? (Choose two.)

- A. debug client
- B. debug capwap
- C. debug ap
- D. debug dot11
- E. debug dtls

Correct Answer: AD

QUESTION 23

Which key is established using the four-way handshake during the WPA authentication process?

- A. Pairwise Master Key



- B. Pairwise Multiple Key
- C. Pairwise Session Key
- D. Pairwise Transient Key
- E. Pairwise Transverse Key

Correct Answer: D

Explanation/Reference:

The authentication process leaves two considerations: the access point (AP) still needs to authenticate itself to the client station (STA), and keys to encrypt the traffic need to be derived. The earlier EAP exchange or WPA2-PSK configuration has provided the shared secret key PMK (Pairwise Master Key). To derive the PMK from the WPA-PSK, the PSK is put through PBKDF2- SHA1 as the cryptographic hash function. This key is, however, designed to last the entire session and should be exposed as little as possible. Therefore the four-way handshake is used to establish another key called the PTK (Pairwise Transient Key). The PTK is generated by concatenating the following attributes: PMK, AP nonce (ANonce), STA nonce (SNonce), AP MAC address, and STA MAC address. The product is then put through a pseudo random function. http://en.wikipedia.org/wiki/IEEE_802.11i-2004

QUESTION 24

When an AP, in its default configuration mode, connects to a Cisco WLC, which methods are available for remote management access to an AP?

- A. SSL and SSH are available only after configuration by a Cisco WLC version 7.0.
- B. SSH only
- C. HTTPS, and SSH
- D. SSH and Telnet
- E. SSH and Telnet are available only after configuration by a Cisco WLC version 7.0.

Correct Answer: D

Explanation/Reference:

In Wireless LAN Controller release 5.0 and later, the controller supports the use of Telnet or Secure Shell (SSH) protocols to troubleshoot lightweight access points. You can use these protocols in order to make debugging easier, especially when the access point is unable to connect to the controller. You can configure Telnet and SSH support only through the controller CLI. <http://www.cisco.com/c/en/us/support/docs/wireless/aironet-1200-series/70278-lap-faq.html>

QUESTION 25

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

Correct Answer: B

QUESTION 26

While undergoing a security audit, a network administrator is told to set up the WLANs with at least 128-bit encryption but also keeping the 802.11n speeds. What WLAN configuration would meet the requirements?

A. Static WEP

B. WPA-TKIP

C. WPA2-AES

D. CKIP

Correct Answer: C

QUESTION 27

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

Correct Answer: B

QUESTION 28

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

Correct Answer: A



QUESTION 29

Which three operations does the lightweight access point manage in a split-MAC design? (Choose three.)

- A. association and re-association
- B. frame exchange and client handshake
- C. RF and mobility management
- D. beacons and probe responses
- E. MAC layer data encryption and decryption
- F. authentication and key management

Correct Answer: BDE

QUESTION 30

Which statement about a wireless client connecting to a network with a hidden SSID is true?

- A. The client must install the 802.1X certificate with encrypted SSID.
- B. The client will be unable to connect.
- C. The SSID needs to be entered manually and is case-sensitive
- D. The SSID needs to be entered manually and is not case-sensitive.

Correct Answer: C

QUESTION 31

What is the EIRP value for a transmitter that has a transmitter capable of 15 dBm, an antenna that has a gain of 12 dBi, and a cable that connects the transmitter to the antenna that has 1 db loss?

- A. 26 dBm
- B. 100 mW
- C. .86 dBm
- D. 165 dBm
- E. 1000 mW

Correct Answer: A
Explanation/Reference:

To determine EIRP follow this equation: $-Cable\ Loss + Antenna\ Gain = EIRP$ So in this case $15 - 1 + 12 = 26$



QUESTION 32

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

Correct Answer: A

QUESTION 33

What is the impact of configuring a single SSID to support TKIP and AES encryption simultaneously?

- 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.

Correct Answer: B

Explanation/Reference:

AES encryption uses hardware so there is almost no overhead when using it. TKIP is based on software. So when we support both TKIP and AES the client throughput will not significantly degrade -> A is not correct. When choosing both

AES and TKIP, the router will support both encryption algorithms. Because not all wireless NICs support AES, some only support TKIP, so this option is probably the best choice -> B is not correct.

As the picture below, Cisco Wireless Control System does support both simultaneously -> C is not correct.

QUESTION 34

You are in a coffee shop and you have connected to their wireless hot-spot. Your Windows 7 wireless client shows five green bars with a yellow shield. Which statement about the level of signal strength and the WLAN security that is present is true?

- A. You have excellent signal strength and a secure network connection.
- B. Your wireless client needs a username and password before it can connect to the WLAN.



- C. You have excellent signal strength and the client is waiting for you to enter a username and password.
- D. Your laptop is not receiving a signal.
- E. Your laptop is receiving an excellent signal and the network security is open.

Correct Answer: E

Explanation/Reference:


Five green bars means that the signal you are receiving is excellent (there are up to 5 bars) and the yellow shield is a warning indication signal that the security settings have been set to open, meaning no authentication is needed.

QUESTION 35

Select and Place:

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

can be used for site surveys	AP Sniffer Mode
no client connectivity	Target
seeks rouge APs and clients	Target
requires external server to capture data	AP Monitor Mode
works with third-party products	Target
data services	Target
	AP Local Mode
	Target
	Target




Correct Answer:



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

	AP Sniffer Mode requires external server to capture data works with third-party products
	AP Monitor Mode no client connectivity seeks rogue APs and clients
	AP Local Mode can be used for site surveys data services



QUESTION 36

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

Correct Answer: C

QUESTION 37

Which two destinations can Cisco WCS administrators specify for a scheduled report? (Choose two.)

- A. a file on the Cisco WCS
- B. a specified email address
- C. a specified World Wide Web server
- D. a TFTP server

Correct Answer: AB



Explanation/Reference:

http://www.cisco.com/c/en/us/td/docs/wireless/wcs/7-0/configuration/guide/WCS70cg/7_0reps.html

QUESTION 38

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

Correct Answer: C

QUESTION 39

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

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

Correct Answer: B

QUESTION 40

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.

Correct Answer: C

Explanation Explanation/Reference:

<http://www.cisco.com/c/en/us/td/docs/wireless/wcs/4-1/configuration/guide/wcscfg41/wcswarr.html>

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