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CCIE Wireless Written

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**QUESTION 1**

Consider the association process of a wireless client to an SSID. Drag and drop the client actions from the left into the correct order of operation on the right.

Select and Place:

802.11 probe request	Step 1
802.11 association request	Step 2
EAPol key message 2	Step 3
802.11 authentication request	Step 4
EAP identity response	Step 5

Correct Answer:

	802.11 probe request
	802.11 authentication request
	802.11 association request
	EAP identity response
	EAPol key message 2



QUESTION 2

Which wireless client steering feature in Cisco Wireless LAN controllers, when enabled, addresses these points:

1.

Addresses the sticky client challenge by proactively disconnecting clients.

2.

Actively monitors data RSSI packets.

3.

Disassociates clients when the RSSI is lower than threshold.

A. optimized roaming

B. client load balancing

C. RX-SOP

D. band select

Correct Answer: A

QUESTION 3



Refer to the exhibit. This topology shows a Cisco 5508 WLC with an AIR-CAP3702I-A-K9 attached to it. A wireless client is connected to the SSID "red" on VLAN 20 and is trying to share its screen with a projector connected to Chromecast device on SSID "blue", which is on VLAN 10. Though all the mDNS configuration is in place at WLANs and network interface level, the wireless client is still not able to stream the traffic to the Chromecast server. The snippet capture on the wireless interface of the wireless client is also provided. What is the reason why the client is not able to mirror its screen on the Chromecast device is true?

- A. Clients can be on different VLANs as long as multicast forwarding has been enabled to support DIAL protocol streaming.
- B. The wireless client is using mDNS service to discover Chromecast devices.
- C. The DIAL protocol is not a supported streaming method via the WLC.
- D. The wireless client is using Discovery and Launch service to discover Chromecast devices.

Correct Answer: D

QUESTION 4



Your customer is having wireless VoIP problems. When the Cisco 7925 phones roam from AP1 to AP2, the voice drops out and comes back. The phones are set up for PEAP/WPA2-AES with CCKM to an external RADIUS server. The APs and WLAN are setup in FlexConnect mode. Which statement explains the issue?

- A. PEAP with WPA2-AES is not supported with Cisco Centralized Key Management, use EAP-FAST.
- B. The APs have not been added to the FlexConnectgroup .
- C. PEAP with WPA2-AES is not supported with Cisco Centralized Key Management, use LEAP.
- D. The APs have been added to the FlexConnectgroup .

Correct Answer: B

http://www.cisco.com/c/en/us/td/docs/wireless/controller/8-0/configuration-guide/b_cg80/b_cg80_chapter_0101110.html

<https://supportforums.cisco.com/discussion/11396831/vowlan-cckm-792x-series>

<http://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/100397-peap-ias.html>

QUESTION 5

You are the wireless administrator for ACME corporation. You must configure a Cisco Catalyst 3850 Series Switch to work as mobility agent to allow access point association to this switch.

- A. Access point must be connected to an access port that has the access VLAN configured to be the same as the service port VLAN on the Catalyst 3850 switch.
- B. Access point must be connected to an access port with the access VLAN configured to be any VLAN that has a Layer 3 interface (SVI) on the Catalyst 3850 switch.
- C. Access point must be connected to an access port with the access VLAN configured to be the same as the wireless management VLAN on the Catalyst 3850 switch.
- D. Access point must be connected to an access port that has the access VLAN configured to be the same as the management VLAN for the switch stack.
- E. Access point must be connected to a trunk port with the native VLAN set to 1 in order to join the WLC on the Catalyst 3850 switch.

Correct Answer: E

QUESTION 6

You are the network administrator for ACME corporation. Your organization has deployed a single Cisco 5500 Series Wireless Controller with 100 Cisco Aironet 3500 Series Aps. A new IT member is worried that most of these Aps are working at a power level 3 on the 5GHz radio specially. As this power level setting is causing issues in your wireless network. Which option describes the likely cause of this behavior?

- A. The WLC has been recently rebooted, which causes the TPC algorithm to set power level 3 on all APs for 90 seconds.
- B. The controller TPC algorithm seems to have a problem. It might have been set to work in TPCv2 mode instead of TPCv1.



- C. The WLC is misconfigured because the static power of level 3 has been set for all the APs under TPC settings.
- D. Cisco 7925 wireless IP Phones are in use and the DTPC feature is enabled on the 5 GHz radio.

Correct Answer: D

Tx Power Num Of Supported Power Levels 5 Tx Power Level 1 18 dBm Tx Power Level 2 15 dBm Tx Power Level 3 12 dBm Tx Power Level 4 9 dBm Tx Power Level 5 6 dBm

<https://supportforums.cisco.com/discussion/11635606/power-level-wlc>

QUESTION 7

You have received a new Cisco 5760 Controller and have gone through the initial startup wizard. You are now trying to add APs to the controller, but these are not joining. Which three checks should you do next? (Choose three.)

- A. Check that the radios are not in a shutdown state.
- B. Check the country code of the controller. The APs do not join the controller if the country does not match.
- C. Check that the correct time is set on the controller.
- D. Check that option 53 has been set in the DHCP scope.
- E. Check that the controller has enough AP licenses.
- F. Check that the controller has been configured with the correct hostname. Otherwise, resolution fails.

Correct Answer: BCE

From:

AP Join
Before connecting your Access Points to the network, ensure licenses and the correct time is set on the controller.

Licenses
Licenses are based on the rights-to-use license model per AP license prior to the CT5760 controller.
You must add the AP licenses you purchased and accept the EULA before connecting your APs. This is how you can do it:
WLC5760#show license rights-to-use activate appear 1510 slot 1 serial EULA
Once you supply it, you can check the AP license information using the CLI:
WLC5760#show license rights-to-use
8 slot License name Type Count Period left

1 account adder 510 Lifetime
You can also add evaluation licenses for testing purposes:
WLC5760#license rights-to-use activate appear evaluation accept EULA
For additional license information, please refer to the Cisco Right to Use Licensing FAQ.

Enable Network Time Protocol (NTP) and Setup Time
NTP is very important for several features. It is mandatory to use NTP synchronization on controllers if you use any of the features—Location, 802.11p, access point authentication, or NTP. The WLC supports synchronization with NTP using authentication.
You can setup NTP during the Initial Wizard configuration. To enable the NTP server use the following command:
WLC5760#config ntp server <ip_address>
controller time
It is important to setup the correct time on the controller so that the AP can join the controller.
WLC5760#clock set 10:00:00 1 2015 day month year

Country Code settings:
Ensure that you have the correct Country Code set on your controller. To see the current Country Code configured on your controller, please issue the following CLI:
WLC5760#config show wireless country configured
Configured Country: : US - United States

http://www.cisco.com/c/en/us/td/docs/wireless/technology/5760_deploy/CT5760_Controller_Deployment_Guide/CT5760_Centralized_Configuration_eg.html#pgfId-1074746



Restrictions for Configuring the Controller for Access Point Discovery

- Ensure that the controllers are configured with the correct date and time. If the date and time configured on the controller precedes the creation and installation date of certificates on the access points, the access point fails to join the controller.

DHCP Option 43 for Lightweight Cisco Aironet Access Points Configuration Example

For more information about the AP join process, see *DHCP OPTION 43 for Lightweight Cisco Aironet Access Points Configuration Example*.

DNS discovery—The access point can discover controllers through your domain name server (DNS). You must configure your DNS to return controller IP addresses in response to `CISCO-CAPWAP-CONTROLLER.localdomain`, where *localdomain* is the access point domain name. When an access point receives an IP address and DNS information from a DHCP server, it contacts the DNS to resolve `CISCO-CAPWAP-CONTROLLER.localdomain`. When the DNS sends a list of controller IP addresses, the access point sends discovery requests to the controllers.

http://www.cisco.com/c/en/us/td/docs/wireless/controller/5700/software/release/3se/lwap/configuration_guide/b_ap_3se_5700_cg/b_ap-config_32se_5700_cg_chapter_010.html

QUESTION 8

Which of the following organizations certifies WLAN product compatibility and interoperability between vendors by providing certification testing?

- A. CCX
- B. ETSI
- C. FCC
- D. IEEE
- E. Wi-Fi Alliance

Correct Answer: E

QUESTION 9

In Cisco Prime, if managing software images for inventory devices, which two software image management processes are available for Cisco Unified WLCs? (Choose two.)

- A. image upgrade/distribution
- B. image upgrade analysis
- C. image import from protocol
- D. image import from device
- E. image recommendation

Correct Answer: AC

**QUESTION 10**

You are working on a deployment that uses two Cisco APs as wireless bridges. One of the bridges is configured as a root bridge and the second bridge is configured as a nonroot bridge. Client A associates to the root bridge and client B associates to the nonroot bridge. Which two statements about this scenario are true? (Choose two)

- A. The default setting of a bridge is nonroot bridge.
- B. For two bridges to communicate with each other, one of the bridges must be in root mode and the other bridge must be in nonroot mode.
- C. Only one device can connect to the Ethernet port of a nonroot bridge.
- D. Two bridges that are in root mode can talk to each other.
- E. In point-to-multipoint bridging, WGB is not recommended with the root bridge. WGB must be associated to the root AP in point-to-multipoint bridging setup.

Correct Answer: AE

<http://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/16041-bridge-faq.html>

<http://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/22950-br-ts-22950.html#reset>

http://www.cisco.com/c/en/us/td/docs/wireless/access_point/15-3-3/configuration/guide/cg15-3-3/cg15-3-3-chap6-radio.html

QUESTION 11

While troubleshooting a failed central web authentication configuration on Cisco WLC, you discover that the Cisco WLC Policy Manager State is showing RUN for new clients and not CENTRAL_WEB_AUTH. Which of the below is most likely causing this issue?

- A. The WLAN NAC state should be set to RADIUS NAC.
- B. The WLAN Layer 2 security should be set to WPA+WPA2.
- C. The WLAN Layer 3 security should be set to Web Policy with Conditional Web Redirect.
- D. The Web Login Page under the Cisco WLC security settings should be set to External(Redirect to external server).

Correct Answer: A



Step 4 See the TSM statistics for a particular client and the access point to which this client is associated by entering this command:

```
show client tsm (802.11a | 802.11b) client_mac {ap_mac | all}
```

The optional all command shows all access points to which this client has associated. Information similar to the following appears:

```
Client Interface Mac:      88:81:02:03:04:05
Measurement Duration:     90 seconds

Timestamp                  1st Jan 2006, 06:35:00
UpLink Stats
=====
Average Delay (5sec intervals).....35
Delay less than 10 ms.....20
Delay bet 10 - 20 ms.....20
Delay bet 20 - 40 ms.....20
Delay greater than 40 ms.....20
Total packet Count.....80
Total packet lost count (5sec).....10
Maximum Lost Packet count(5sec).....5
Average Lost Packet count(5secs).....2
DownLink Stats
=====
Average Delay (5sec intervals).....35
Delay less than 10 ms.....20
Delay bet 10 - 20 ms.....20
Delay bet 20 - 40 ms.....20
Delay greater than 40 ms.....20
Total packet Count.....80
Total packet lost count (5sec).....10
Maximum Lost Packet count(5sec).....5
Average Lost Packet count(5secs).....2
```



WLANs > Edit 'ISE_CWA'

General Security QoS Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security: None

MAC Filtering: ☒

Fast Transition: ☐

WLANs > Edit 'ISE_CWA'

General Security QoS Advanced

Layer 2 Layer 3 AAA Servers

Layer 3 Security: None

Web Policy: ☐

General Security QoS Advanced

Layer 2 Layer 3 AAA Servers

Select AAA servers below to override use of default servers on this interface

Radius Servers

Radius Server Overwrite interface: ☐ Enabled

Authentication Servers

Server 1: IP: 10.48.39.123, Port: 1812

WLANs > Edit 'ISE_CWA'

General Security QoS Advanced

Allow AAA Override: ☒ Enabled

Coverage Hole Detection: ☒ Enabled

Enable Session Timeout: ☒ 1800

Session Timeout (secs): 1800

Airport IE: ☒ Enabled

Diagnostic Channel: ☐ Enabled

Override Interface ACL: IPv4: None IPv6: None

P2P Blocking Action: Disabled

Client Exclusion: ☒ Enabled

Maximum Allowed Clients: 0

Static IP Tunneling: ☐ Enabled

DHCP

DHCP Server: ☐ Override

DHCP Addr. Assignment: ☒ Required

Management Frame Protection (MFP)

MFP Client Protection: Optional

DTIM Period [in beacon intervals]

802.11a/n (1 - 155): 1

802.11b/g/n (1 - 155): 1

NAC

NAC State: Radius NAC

<http://www.cisco.com/c/en/us/support/docs/security/identity-services-engine/115732-central-web-auth-00.html>
<http://www.cisco.com/c/en/us/support/docs/wireless-mobility/wlan-security/69340-web-auth-config.html>

QUESTION 12

DRAG DROP



Drag and drop the AVC configuration feature on the left to their respective function on the right.

Select and Place:

Enable AVC	Select Application Action for DROP or MARK
NetFlow Exporter	Mapped to WLAN for action enforcement
NetFlow Monitor	Network entity that exports the template with the IP traffic information.
AVC Profile	Classifies application and provides application-level visibility and control (Qos) in Wireless network.
AVC Rule	Assigned to WLAN to export IP traffic information to collector.

Correct Answer:

	AVC Rule
	AVC Profile
	NetFlow Exporter
	Enable AVC
	NetFlow Monitor

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