



200-355^{Q&As}

Implementing Cisco Wireless Network Fundamentals

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QUESTION 1

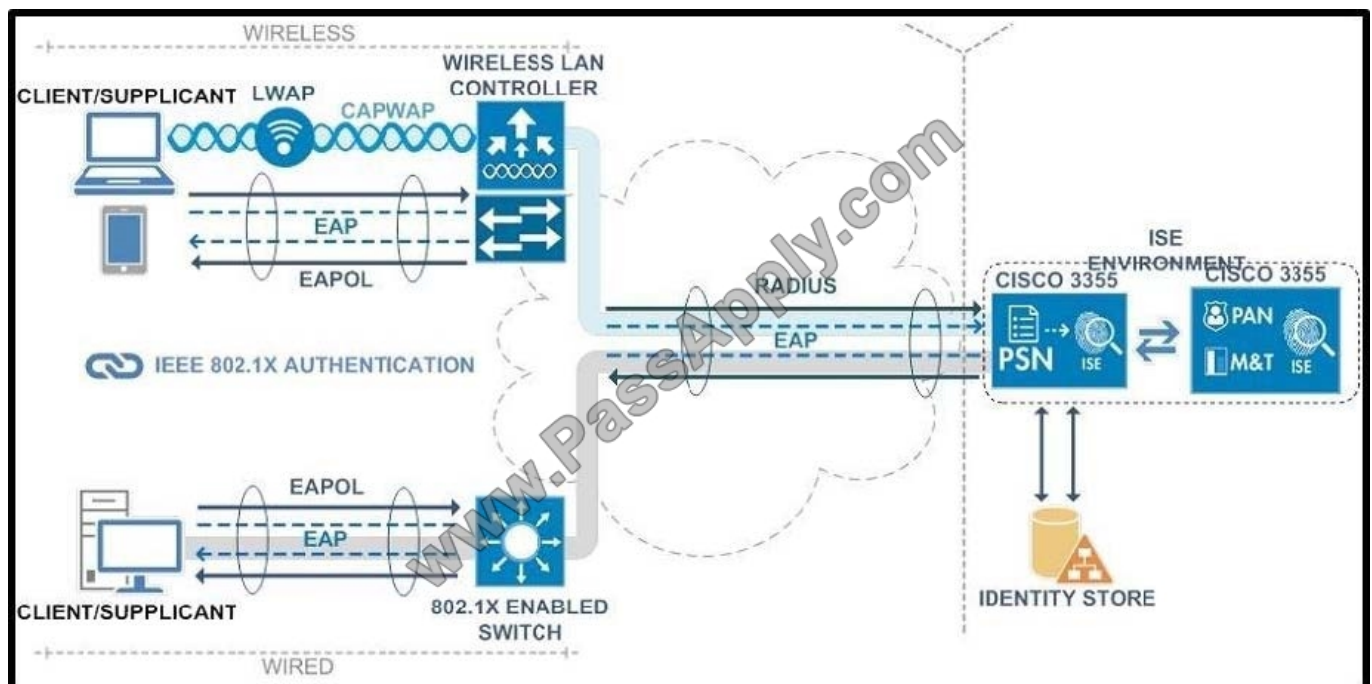
When using multiple SSIDs on a lightweight AP, how does the traffic of each SSID reach the 802.3 network?

- A. provide routing between them at the core so that the SSIDs can reach the internet
- B. configure 802.11q trunking on the Ethernet switch port that is connected to the AP
- C. configure ACLs at the switch port that will allow all desired SSIDs to pass traffic
- D. configure the SSIDs on the WLC and it will regulate the traffic based on traffic type

Correct Answer: B

QUESTION 2

Refer to the exhibit.



A customer has enabled the primary DNS server to return the correct controller IP address in response to a CISCO-CAPWAP-CONTROLLER.localdomain request coming from new access points associating to the wireless network. The access points seem to still be receiving the wrong IP address and cannot associate to the primary controller. Which option explains why the access points are receiving the wrong IP information?

- A. The DHCP option 43 has an incorrect controller IP address configured.
- B. The DNS server must be configured to respond to CISCO-LWAPP-CONTROLLER.localdomain request.
- C. The controller and wireless action point need to be Layer 2 adjacent.
- D. The controller must be configured for DHCP option 15 request.



Correct Answer: A

QUESTION 3

Which two statements best describe LWAPP? (Choose two.)

- A. Cisco proprietary
- B. communication between the AP and client
- C. communication between the AP and the WLC
- D. Lightweight Access Point provisioning
- E. used to encrypt control and data packets

Correct Answer: AC

QUESTION 4

Instructions:

THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION

To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.

There is two 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 LAN controller, a dual radio AP, and an iOS switch. You are testing the ability of wireless to access the network and are experiencing problems.

Use the exhibits to resolve the issues.

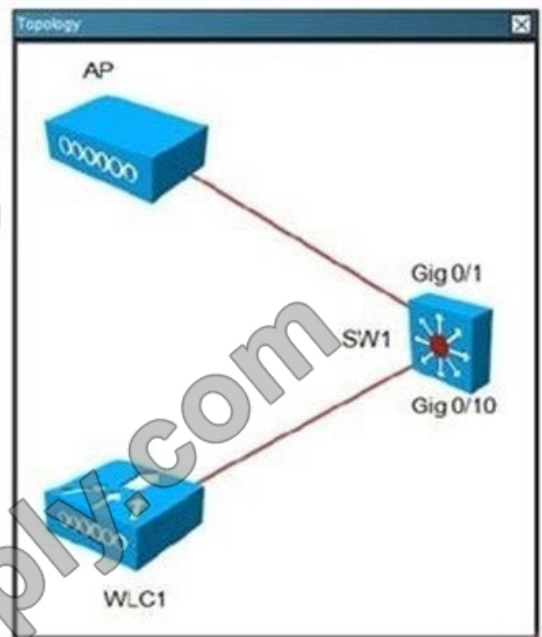


Instructions

- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are two multiple-choice questions with this task. Be sure to answer both questions 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 LAN controller, a dual radio AP, and an IDS switch. You are testing the ability of wireless clients to access the network and are experiencing problems. Use the exhibits to resolve the issues.



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 checked="" 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
------	---



802.11ac AP

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11ac Cisco APs > Configure

General		RF Channel Assignment	
AP Name	AP442b.035d.4d4f	Current Channel	149
Admin Status	Enable	Channel Width	20 MHz
Operational Status	UP	* Channel width can be configured only when channel configuration mode	
Site #	1	Assignment Method	Global
11n Parameters		Tx Power Level Assignment	
11n Supported	Yes	Current Tx Power Level	4
ClientLink	<input type="checkbox"/>	Assignment Method	Global
CleanAir		Performance Profile	
CleanAir Capable	No	View and edit Performance Profile for this AP	
CleanAir Admin Status	Disable	Performance Profile	
Antenna Parameters		Note: Changing any of the parameters causes the Radio to be temporarily disabled and thus may result in loss of connectivity for some clients.	
Antenna Type	Internal		
Antenna	A <input checked="" type="checkbox"/>		
	B <input checked="" type="checkbox"/>		
	C <input checked="" type="checkbox"/>		

802.11bg Network

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11bg Global Parameters

General		Data Rates**	
802.11b/g Network Status	<input checked="" type="checkbox"/> Enabled	1 Mbps	Disabled
802.11g Support	<input checked="" type="checkbox"/> Enabled	2 Mbps	Disabled
Beacon Period (milliseconds)	100	5.5 Mbps	Disabled
Short Preamble	<input checked="" type="checkbox"/> Enabled	5 Mbps	Supportec
Fragmentation Threshold (bytes)	2346	9 Mbps	Supportec
D-FC Support	<input checked="" type="checkbox"/> Enabled	11 Mbps	Disabled
11n Parameters		12 Mbps	Mandatory
ClientLink	<input type="checkbox"/> Enabled	18 Mbps	Supportec
CCX Location Measurement		24 Mbps	Supportec
Mode	<input type="checkbox"/> Enabled	36 Mbps	Supportec
		48 Mbps	Supportec
		54 Mbps	Supportec

802.11bg AP

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11bg/n Cisco APs > Configure

General		RF Channel Assignment	
AP Name	AP442b.035d.4d4f	Current Channel	11
Admin Status	Enable	Channel Width	20 MHz
Operational Status	UP	Assignment Method	Global
Site #	0	Note: Only Channels 1, 6 and 11 are nonoverlapping	
11n Parameters		Tx Power Level Assignment	
11n Supported	Yes	Current Tx Power Level	5
ClientLink	<input type="checkbox"/>	Assignment Method	Global
CleanAir		Performance Profile	
CleanAir Capable	No	View and edit Performance Profile for this AP	
CleanAir Admin Status	Disable	Performance Profile	
Antenna Parameters		Note: Changing any of the parameters causes the Radio to be temporarily disabled and thus may result in loss of connectivity for some clients.	
Antenna Type	Internal		
Antenna	A <input checked="" type="checkbox"/>		
	B <input checked="" type="checkbox"/>		
	C <input checked="" type="checkbox"/>		

WLAN General

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs > Edit 'ExamSSID'

General	
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 Wan Feature	<input type="checkbox"/> Enabled
Broadcast SSID	<input type="checkbox"/> Enabled



WLAN Security

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP

WLANs > Edit 'ExamSSID'

General Security QoS Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security: WPA+WPA2

802.11k Filtering

WPA+WPA2 Parameters

WPA Policy:

WPA2 Policy:

WPA2 Encrypt on: AES TKIP

Auth Key Mgmt: PSK

PSK Format: ASCII

WLAN QoS

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS

WLANs > Edit 'ExamSSID'

General Security QoS Advanced

Quality of Service (QoS): Silver (best effort)

WMM

WMM Policy: Required

7920 AP CAC: Enabled

7920 Client CAC: Enabled

WLAN Adv

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

WLANs > Edit 'ExamSSID'

General Security QoS Advanced

Allow AAA Override: Enabled

Coverage Hole Detection: Enabled

Enable Session Timeout: 1800
Session Timeout (secs)

Aironet IE: Enabled

Diagnostic Channel: Enabled

IPv6 Enable:

Override Interface ACL: None

P2P Blocking Action: Disabled

Client Exclusion: Enabled 60
Timeout Value (secs)

Maximum Allowed Clients: 0

Static IP Tunneling: Enabled

Off Channel Scanning Defer

Scan Defer Priority: 0 1 2 3 4 5 6 7

Scan Defer Time(msecs): 100

DHCP

DHCP Server: Override

DHCP Addr. Assignment: Required

Management Frame Protection (MFP)

MFP Client Protection: Optional

UIIR Period (in beacon intervals)

802.11a/n (1 - 255): 1

802.11b/g/n (1 - 255): 1

NAC

NAC State: None

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.

Correct Answer: C

802.11n only supports open authentication or the use of WPAv2 with AES. From the output shown in this question, we can see that WPA/WPA2 using TKIP has been configured, not AES.

QUESTION 5

Which software you can use to do both active and passive site surveys?

- A. Fluke networks Airmagnet Pro
- B. Fluke networks Airmagnet lite
- C. Cisco spectrum analyzer

Correct Answer: A

QUESTION 6

What is the equivalent of 26 dBm in milliwatts?

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

Correct Answer: D

$\text{dBm} = \log_{10}(\text{mW}) * 10 \text{ mW} = 10^{(\text{dBm}/10)}$ Samples: 40 dBm=10.00 watts 36 dBm=4.00 watts 30 dBm=1.00 watts 27 dBm=500 milliwatts 26 dBm=400 milliwatts

<http://www.h-peters.com/dbmtomw.html>



QUESTION 7

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

Correct Answer: D

MacBook Pro using 10.6 supports 2.4Ghz only, so the EAP-FAST should be used. 5Ghz support was added to MacBook later.

QUESTION 8

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 9

Which two of the following authentication methods used for WiFi security require the use of certificates? (Choose two.)

- A. PEAP
- B. EAP-FAST
- C. WPA2
- D. WPA1
- E. EAP-TLS



F. EAP-MD5

Correct Answer: AE

When you use EAP with a strong EAP type, such as TLS with smart cards or TLS with certificates, both the client and the server use certificates to verify their identities to each other. Certificates must meet specific requirements both on the server and on the client for successful authentication. <https://support.microsoft.com/en-us/kb/814394>

QUESTION 10

Refer to the exhibit.

```
version 12.4
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname AAP1
!
logging rate-limit console 9
enable secret 5 $1$QNUK$tp4V77o1g3F/85Liw4Izg/
!
no aaa new-model
ip domain name alnetlab.local
!
!
dot11 syslog
!
dot11 ssid Guest-01
  vlan 110
  authentication open
  guest-mode
```

A customer has set up an autonomous access point with a single broadcast SSID on the 2.4-GHz radio and requested that an engineer add an additional SSID to the 2.4-GHz radio. Given the output, what should be configured to implement the new SSID?

- A. the new SSID on the 5-GHz radio
- B. dot11 mbssid globally and mbssid mode under the SSIDs
- C. guest-mode on the dot11 radio interface
- D. guest-mode under the new SSID

Correct Answer: B

QUESTION 11

What is fading?

- A. Another signal source is producing energy on the channel in which you are trying to operate.



- B. The desired signal reaches the receiving antenna via multiple paths, each of which has a different propagation delay and path loss.
- C. A time-varying change in the path loss of a link with the time variance governed by the movement of objects in the environment, including the transmitter and receiver themselves.
- D. A function of the frequency and should be provided in the cable specification by the vendor.
- E. The minimum signal level for the receiver to be able to acceptably decode the information.
- F. The time delay from the reception of the first instance of the signal until the last instance.

Correct Answer: C

QUESTION 12

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

- A. DCA
- B. TPC
- C. RFgroups
- D. coverage hole detection

Correct Answer: A

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