



640-722^{Q&As}

Implementing Cisco Unified Wireless Networking Essentials v2.0

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QUESTION 1

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

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. Reference: CCNA Wireless (640-722 IUWNE) Quick Reference Guide page 73

QUESTION 2

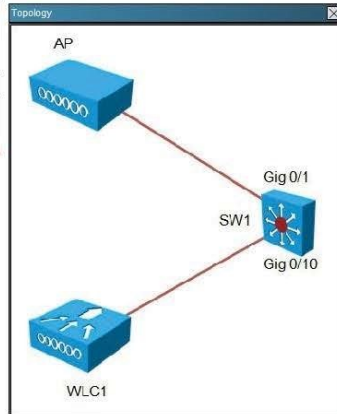


Instructions

- 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 IOS 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 Enabled
 Beacon Period (milliseconds) 100
 Fragmentation Threshold (Bytes) 2346
 DTFC Support Enabled

802.11a Band Status

Low Band Enabled
 Mid Band Enabled
 High Band Enabled

11n Parameters

ClientLink Enabled

Data Rates**

6 Mbps Mandatory
 9 Mbps Supported
 17 Mbps Mandatory
 10 Mbps Supported
 24 Mbps Mandatory
 36 Mbps Supported
 48 Mbps Supported
 54 Mbps Supported

CCX Location Measurement

Mode Enabled

802.11a 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
 Antenna A
 Antenna B
 Antenna 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 end user 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.

802.11g Network

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11g Global Parameters

General

802.11b/g Network Status Enabled
 802.11g Support Enabled
 Beacon Period (milliseconds) 100
 Short Preamble Enabled
 Fragmentation Threshold (Bytes) 2346
 DTFC 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 Supportec
 24 Mbps Supportec
 36 Mbps Supportec
 48 Mbps Supportec
 54 Mbps Supportec





802.11bg AP

MONITOR WLANs CONTROLLER WIRELESS SECURITY MANAGEMENT COMMANDS HELP FEEDBACK

802.11b/g/n Cisco APs > Configure

General

AP Name: AP442b.036d.4d0f
Admin Status: Enable
Operational Status: UP
Slot #: 0

11n Parameters

11n Supported: Yes
ClientLink:

CleanAir

CleanAir Capable: No
CleanAir Admin Status: Disable

Antenna Parameters

Antenna Type: Internal
Antenna: A , B , C

RF Channel Assignment

Current Channel: 11
Channel Width: 20 MHz
Assignment Method: Global

Tx Power Level Assignment

Current Tx Power Level: 5
Assignment Method: Custom

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 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: 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 Man Feature: Enabled
Broadcast SSID: 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
 802.11 MAC Filtering

WPA+WPA2 Parameters

WPA Policy:
WPA2 Policy:
WPA2 Encryption: AES TKIP
Auth Key Mgmt: PSK
PSK Format: ASCII
PSK:

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
7320 AP CAC: Enabled
7320 Client CAC: Enabled





Old 2.4-GHz wireless laptops are unable to connect. 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 b/g/n AP is incorrectly configured.
- F. Wireless > AP > 802.11 b/g/n > Network is incorrectly configured.

Correct Answer: F

ClientLink is not enabled and should be in a mixed client environment. Many networks still support a mix of 802.11a/g and 802.11n clients. Because 802.11a/g clients (legacy clients) operate at lower data rates, the older clients can reduce the capacity of the entire network. Cisco's ClientLink technology can help solve problems related to adoption of 802.11n in mixed-client networks by ensuring that 802.11a/g clients operate at the best possible rates, especially when they are near cell boundaries.

QUESTION 3

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.

Correct Answer: CDE

The security settings in the Easy Setup Radio Configuration section are designed for simple configuration of basic security. The options available are a subset of the wireless device security capabilities. Keep these limitations in mind when using the Express Security page:

If the No VLAN option is selected, the static WEP key can be configured once. If you select Enable VLAN, the static WEP key should be disabled.

You cannot edit SSIDs. However, you can delete SSIDs and re-create them.

You cannot configure multiple authentication servers. To configure multiple authentication servers, use the Security Server Manager page.

You cannot configure multiple WEP keys. To configure multiple WEP keys, use the Security Encryption Manager page.



You cannot assign an SSID to a VLAN that is already configured on the wireless device. To assign an SSID to an existing VLAN, use the Security SSID Manager page.

You cannot configure combinations of authentication types on the same SSID (for example, MAC address authentication and EAP authentication). To configure combinations of authentication types, use the Security SSID Manager page.

Reference: http://www.cisco.com/c/en/us/td/docs/wireless/access_point/15_2_4_JB/configuration/guide/scg15-2-4-Book/scg15-2-4-chap4-first.html

QUESTION 4

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

Correct Answer: C

The different methods by which the access point (AP) discovers the controller are:

1.
The AP issues a DHCP DISCOVER in order to obtain an address.
2.
Layer 2 attempts LWAPP WLAN controller discovery and Ethernet broadcast.
3.
Layer 3 attempts LWAPP WLAN controller discovery:
LWAPP discovery broadcast on local subnet
Over-the-air provisioning
Locally stored controller IP address(IP addresses of the controller learned from previously joined mobility group)
DHCP option 43
DNS resolution of CISCO-LWAPP-CONTROLLER.localdomain

Reference: <https://supportforums.cisco.com/document/8446/how-configure-lightweight-ap-order-join-respective-wlan-controller>

**QUESTION 5**

What are three characteristics of the 802.11g standard? (Choose three.)

- A. speed of as much as 11 Mb/s
- B. speed of as much as 54 Mb/s
- C. backward-compatibility with 802.11a
- D. backward-compatibility with 802.11b
- E. OFDM as an additional modulation technique
- F. OFDM and CCK as additional modulation techniques

Correct Answer: BDE

802.11g is the third modulation standard for wireless LANs. It works in the 2.4 GHz band (like 802.11b) but operates at a maximum raw data rate of 54 Mbit/s. Using the CSMA/CA transmission scheme, 31.4 Mbit/s [1] is the maximum net throughput possible for packets of 1500 bytes in size and a 54 Mbit/s wireless rate (identical to 802.11a core, except for some additional legacy overhead for backward compatibility). In practice, access points may not have an ideal implementation and may therefore not be able to achieve even 31.4 Mbit/s throughput with 1500 byte packets. 1500 bytes is the usual limit for packets on the Internet and therefore a relevant size to benchmark against. Smaller packets give even lower theoretical throughput, down to 3 Mbit/s using 54 Mbit/s rate and 64 byte packets. Also, the available throughput is shared between all stations transmitting, including the AP so both downstream and upstream traffic is limited to a shared total of 31.4 Mbit/s using 1500 byte packets and 54 Mbit/s rate. 802.11g hardware is fully backwards compatible with 802.11b hardware. Details of making b and g work well together occupied much of the lingering technical process. In an 802.11g network, however, the presence of a legacy 802.11b participant will significantly reduce the speed of the overall 802.11g network. Some 802.11g routers employ a back-compatible mode for 802.11b clients called 54g LRS (Limited Rate Support). [2] The modulation scheme used in 802.11g is orthogonal frequency-division multiplexing (OFDM) copied from 802.11a with data rates of 6, 9, 12, 18, 24, 36, 48, and 54 Mbit/s, and reverts to CCK (like the 802.11b standard) for 5.5 and 11 Mbit/s and DBPSK/DQPSK+DSSS for 1 and 2 Mbit/s. Even though 802.11g operates in the same frequency band as 802.11b, it can achieve higher data rates because of its heritage to 802.11a.

Reference: http://en.wikipedia.org/wiki/IEEE_802.11g-2003

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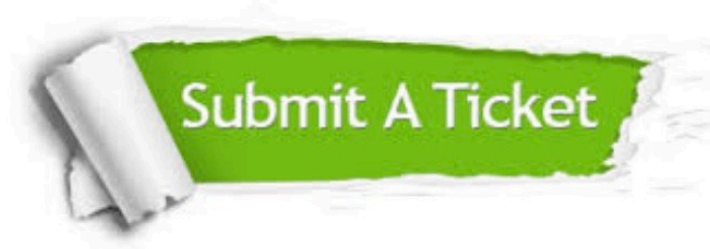
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