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Implementing Cisco Wireless Network Fundamentals

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QUESTION 1

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

Correct Answer: ACDG

FHSS is still described in the original 802.11 protocol, but another technique was preferred and adopted by all 802.11 networks: Direct Sequence Spread Spectrum. Instead of small channels and a jumping sequence, the information is sent over a wider channel. This channel is 22 MHz wide (if the center frequency is 2.412, this channel spans from 2.401 GHz to 2.423 GHz) and does not move (no hopping, which is why the sequence is said to be direct instead of hopping). Then, over this 22 MHz channel, several bits of information are sent in parallel. If a source of interference affects part of the channel, it will prevent only the bits sent in that frequency from reaching the receiver.

QUESTION 2

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

Correct Answer: BC

Cisco WCS PLUS license supports Cisco WCS base license features and the following capabilities: mobility services enablement and high availability. An older Cisco WCS Location license is forward compatible and equivalent to a PLUS license. When upgrading to this release, older Location licenses will appear as PLUS licenses. Older Enterprise licenses are also forward compatible and become PLUS licenses when loaded.

The process to provision a Cisco WCS PLUS license is the same as provisioning a current Cisco WCS license.

http://www.cisco.com/c/en/us/td/docs/wireless/wcs/7-0/configuration/guide/WCS70cg/7_0warr.html



QUESTION 3

What two AP configurations will show RF prediction on maps in WCS? (Choose two.)

- A. Lightweight APs with internal antennas
- B. Lightweight APs with external Cisco antennas
- C. Lightweight APs with external 3rd Party antennas
- D. Autonomous APs with internal antennas
- E. Autonomous APs with external Cisco antennas
- F. Autonomous APs with external 3rd Party antennas

Correct Answer: AB

QUESTION 4

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

Correct Answer: D

The apple iPhone 4 and iPad2 supports only 2.4 Ghz (no 5 Ghz) wireless networks. Support for 5Ghz networks was introduced with the Apple iPhone5 and the iPad 3.

QUESTION 5

A Cisco 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

Correct Answer: AEF

QUESTION 6

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

Correct Answer: AB

QUESTION 7

An engineer is deploying an autonomous AP, and the customer requests that all IEEE 802.11b data rates be disabled on the AP. Which interface must be amended to disable the 802.11b data rates on a Cisco Aironet 1252 Series Access Point?

- A. Dot11radio0
- B. Dot11radio1
- C. GigabitEthernet0
- D. BVI1

Correct Answer: A

QUESTION 8

Why would you deploy multiple access points in an office area?

- A. to implement seamless roaming between access points



- B. to improve wireless security
- C. to deploy multiple SSIDs
- D. to avoid channel overlap

Correct Answer: A

QUESTION 9

An engineer recently removed a WLC from a WCS, but the APs associated to the WLC are still showing on the WCS. What is a reason for this?

- A. The associated APs must be removed manually.
- B. The APs must be removed from the WCS map.
- C. The hold-down timer must expire before the APs will be removed.
- D. The APs must be audited.

Correct Answer: A

QUESTION 10

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 11

Which roaming situation using controllers in a Cisco Unified Wireless Network requires a client using WPA2 with PKC to reauthenticate to the network?

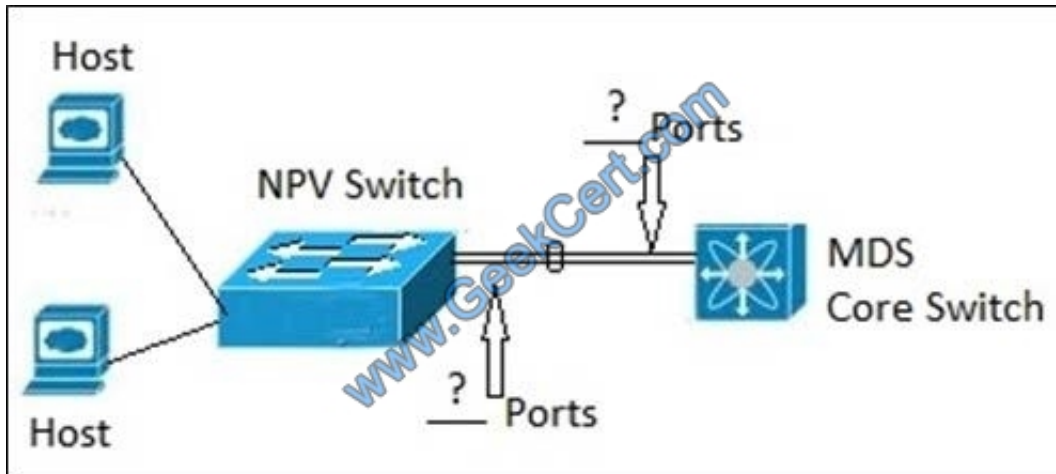
- A. A wireless client roams to another AP on a different controller in the same mobility domain.
- B. A wireless client roams to another AP on the same controller.
- C. A wireless client roams to another AP after being out of range of the network for 2 minutes.
- D. A wireless client roams to another AP on a controller in a different mobility domain.



Correct Answer: D

QUESTION 12

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

Correct Answer: BC

QUESTION 13

Which Cisco program for WLAN client vendors helps to ensure that their devices are interoperable with Cisco WLAN infrastructure?

- A. CCX
- B. CCMP
- C. ASDM
- D. WLSE



Correct Answer: A

IEEE and industry standards define how a Wi-Fi radio interoperates with a wireless LAN infrastructure, and the Wi-Fi CERTIFIEDTM seal ensures interoperability. For many organizations that rely on mobile computers, however, Wi-Fi CERTIFIED is not enough. These organizations need assurance that their mobile computers will interoperate with a Cisco wireless LAN infrastructure and support Cisco wireless LAN innovations for enhanced security, mobility, quality of service, and network management. The Cisco Compatible seal gives organizations the assurance that they seek.

A mobile computer earns the Cisco Compatible seal through a program called Cisco Compatible Extensions, or CCX. Like the Wi-Fi certification program, CCX:

The CCX specification is a superset of that used for Wi-Fi certification. In fact, a device cannot be certified for CCX unless it, or the Wi-Fi radio inside it, is Wi-Fi CERTIFIED. http://www.digikey.com/Web%20Export/Supplier%20Content/Laird_776/PDF/laird-wireless-value-cisco-compatible-extension.pdf?redirected=1

QUESTION 14

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

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 15

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

Correct Answer: ABD

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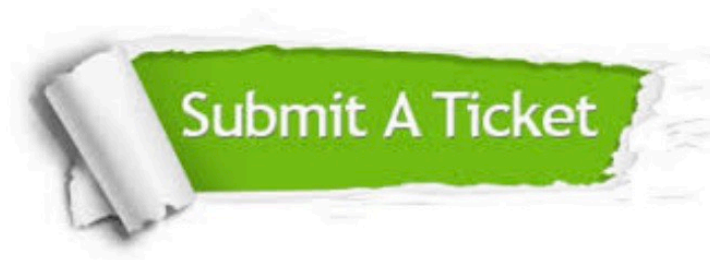
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