



200-355^{Q&As}

Implementing Cisco Wireless Network Fundamentals

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QUESTION 1

Which menu path on an Android phone displays currently connected wireless network information such as link speed, IP address, and connectivity status?

- A. Settings > More > connected SSID
- B. Settings > About phone > Status
- C. Settings > Wi-Fi > connected SSID
- D. Settings > More > Wi-Fi

Correct Answer: C

QUESTION 2

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 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.

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



QUESTION 3

Which statement about the impact of configuring a single SSID to support TKIP and AES encryption simultaneously is true?

- A. The overhead associated with supporting both encryption methods significantly degrades client throughput.
- 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

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 4

Which two options are considered to be non-real-time applications? (Choose two.)

- A. social media
- B. video
- C. collaboration
- D. Citrix remote desktop
- E. email

Correct Answer: AE

QUESTION 5

Which wireless client attempts to authenticate by using 802.1X?

- A. supplicant
- B. authenticator
- C. EAP



D. RADIUS

Correct Answer: A

802.1x is an Institute of Electrical and Electronics Engineers (IEEE) standard that provides an authentication framework for WLANs. 802.1x uses the Extensible Authentication Protocol (EAP) to exchange messages during the authentication process. The authentication protocols that operate inside the 802.1x framework that are suitable for wireless networks include EAP-Transport Layer Security (EAP-TLS), Protected EAP (PEAP), and EAP-Tunneled TLS (EAP-TTLS). These protocols allow the network to authenticate the client while also allowing the client to authenticate the network. 802.1x authentication consists of three components:

http://www.arubanetworks.com/techdocs/ArubaOS_60/UserGuide/802.1x.php

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