



Lab 1.6.8 Challenges of Wireless Media

Estimated Time: 20 minutes

Number of Team Members: Each team will consist of two students

Objective

The student will research a topic involved with the future direction and technologies associated with wireless networking.

Scenario

There is continual development in the WLAN community. One emerging standard is 802.11g. 802.11g operates at higher speeds than 802.11b in the 2.4-GHz range. 802.11g, like 802.11a, supports Orthogonal Frequency Division Multiplexing (OFDM) modulation with speeds up to 54 Mbps. 802.11g is designed to be backwards compatible with 802.11b clients. If additional speed is needed, 802.11g may become a good choice. If the 2.4-GHz frequency is noisy at a given locale, 802.11a 5-GHz technology may be a better option.

Preparation

The instructor should compile a list of current trends in the area of Wireless Local Area Networking or use the topics given in step 1 of the lab.

This lab will require a computer with a connection to the Internet for online research purposes.

Utilize resources such as trade publications, magazines, and vendor literature that are applicable to current and future trends in the area of wireless local area networks.

Step 1 Assign each group a specific topic from the list below to research

- WLAN security
- WLAN frequency ranges
- WLAN devices
- WLAN connection speeds
- WLAN applications
- WLAN vendors

Team	Topic Assigned:
Team 1	
Team 2	
Team 3	
Team 4	
Team 5	
Team 6	

Step 2 Research sources

- a. List at least three different web sites that were visited for the research information:

Step 3 Presentations

- a. Give a brief summary of the Wireless Local Area Networking topic researched.

- b. What is the future trend of this topic for Wireless Local Area Networking?

- c. What companies are involved in the development of the wireless networking topic?

- d. Is there an IEEE standard for the topic researched? If so, what is it?
