



Lab 1.6.1 Challenges of Wireless Regulations

Estimated Time: 20 minutes

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

Objective

The student will learn the future direction and technologies associated to wireless regulations.

Scenario

There is continual development in wireless LAN (WLAN) technologies. One primary challenge is to conform to local, state, and national regulations related to wireless LAN emissions. Our focus is on Wireless emissions that occur in the 2.4 GHz and 5 GHz radio frequency spectrums. In this lab, each team will be assigned a topic to investigate.

Preparation

The instructor should compile a list of wireless regulatory bodies.

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

The student teams should be encouraged to research 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 team a regulatory agency to research

The research should include guidelines regulating the operation in both radio frequency spectrums (2.4 GHz and 5 GHz):

- United States (FCC)
- Europe (ETSI)
- Japan (JST)
- Australia/New Zealand (ANZ)
- Other

Team	Agency 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:

1. _____
2. _____
3. _____

Step 3 Presentations

- a. Give a brief summary of the regulatory agencies researched.

- b. What is the future trend of wireless this agency's regulations in the 2.4 GHz RF spectrums?

- c. What is the future trend of wireless this agency's regulations in the 5 GHz RF spectrums?

- d. How does this body differ from the others?

- e. What officials comprise the regulatory agency or body?

- f. How do companies comply with the regulations?

- g. How do the regulatory agencies police the airwaves?

- h. What action(s) do they take for violations?

- i. What penalties are imposed for violations?
