# Chapter 5: Connecting to Access Points (AP)

## Objective

At the end of chapter 5 you will understand the fundamentals of being a WiFi Station (STA) and connecting to WiFI Access Points (AP). You will have basic understanding of physical and datalink layers of WiFi which enable connections and encryption as well as the basics of IP networking (addresses, netmasks). Lastly you will understand the role of the WICED Device Configuration Table (DCT).

## Time: 1 Hr

## Fundamentals

### Networking Stack

### (physical layer) Channels

### (data link layer) SSID

### (data link layer) Encryption

#### OPEN

#### WEP

#### WPA2 PSK or Personal

#### WPA2 Enterprise

### IP Networking

#### IP Address

#### netmask

### Introducers

### WICED DCT

## Exercise(s)

### run the snip app that lets you select with AP to connect to

### pre-program SSID open

### pre-program SSID wep

### pre-program SSID WPA2

### enter the SSID and write to the DCT

### Find access points

### Security (wep, wpa

### Dhcp, dns,

### connect/reconnect