# Chapter 4: Using the WICED-SDK Library

## Objective

At the end of this chapter you should understand what is contained in the WICED-SDK library.

## Time: 15 Minutes

## Fundamentals

### WICED-SDK Library

At this point life is to short to develop all of the “stuff” that you might want to include in your IoT project. In order to accelerate your development, cycle we have included a bunch of code to handle many tasks that you might want to use in your design. If you look in the “libraries” directory you will find the following directories:



* **Audio:** contains support for Appolo (a streaming audio standard), codecs including Free Lossless Audio compression,
* **Crypto:** contains ?
* **Daemons:** contains some typical “unix” daemons to provide networking support including an HTTP Server, Gedday, TFTP, DHCP, DNS etc.
* **Drivers:** contains hardware support files for spi flash, usb etc.
* **Filesystems:** FAT, FILE and other file systems that could be written to a SPI flash
* **Graphics:** Support for the U8G LCD displays
* **Inputs:** drivers for buttons and gpios
* **Protocols**: Support for application layer protocols including HTTP, COAP, MQTT etc.
* **Test**:tools to test network performance iPerf, malloc, TraceX, audio
* **Utilities**: support for JSON, console, printf, buffers, etc.

## Exercise(s)

### 01 Browse the library directory

### 02 Build and try the “Command\_Console” from the utilities directory

### 03 Build and try the iPerf performance testing application

### 04 Using the U8G graphics display on the shield (that does not yet exist) to display text