**Chapter 3-5 RTOS Timer**

Welcome back to WICED WiFi 101. The last RTOS primitive that I am going to talk about is the timer. The timer does exactly what you would think that it does. Specifically it runs your function at a regular specific interval.

All of the timer functions can be found in the API guide under components->rtos->rtos timers.

To create a timer you call wiced\_rtos\_timer\_init with the timer handle, the time between calls, the function you want called and the argument that you want to call that function with.

For instance, excersize 5 is another redo of the blinking LED program. In the application start I

* Initialize the timer using wiced\_rtos\_init\_timer
* Then I start the timer using wiced\_rtos\_start\_timer

The timer will then periodically call the function ledToggle which will just toggle the led.

You can use a timer for many periodic functions in you system, like reading an I2C accelerometer at a specific interval, or sending data to the cloud on some regular basis. This could be implemented with a thread and

As always, you can post your comments and questions in our Wifi developer community or you are welcome to email me at alan\_hawse@cypress.com or tweet me at @askioexpert with your comments, suggestions, criticisms and questions.

The next chapter is focus on using the C-libraries that we provide for you to improve your development cycle time.