CC31xx TCP Socket Application

Overview and application details

This is a sample application demonstrating how to open and use a standard TCP socket with CC3100.

Note: This wiki page is only applicable for **CC3100-SDK v1.0.0** and upward releases. For documentation on older SDKs' examples, refer corresponding file in **<cc3100-sdk-installation-location>\cc3100-sdk\docs\examples**

Usage

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - [| CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] has detailed instructions for configuring the terminal-program
- Edit **sl_common.h** and update the following parameters for the device to establish connection w/ the access-point

```
#define SSID_NAME        "<ap_name>"
#define SEC_TYPE         <security-type>
#define PASSKEY          ""
```

- Edit **main.c** and update the following parameters of the remote server

```
#define IP_ADDR          0xc0a80164
```

- Build and launch the application
- Open an **Iperf** TCP server listening on port **PORT_NUM** on Windows-PC

```
Iperf -s -p <PORT_NUM> -i 1
```

- The device will connect to **Iperf** server and send some packets
- The application also starts a TCP server on **PORT_NUM**
- Open an **Iperf** client on Windows, connect to CC3100 on **PORT_NUM**

```
Iperf -c <DEST_IP_ADDR> -p <PORT_NUM> -i 1
```

- The device receives the packets sent by the Iperf client and closes the socket.
- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal

Limitations/Known Issues

None

References

[1] http://processors.wiki.ti.com/index.php/CC31xx_&_CC32xx_Terminal_Setting

Article Sources and Contributors

CC31xx TCP Socket Application *Source*: http://processors.wiki.ti.com/index.php?oldid=184941 *Contributors*: A0131814, A0132173, A0221015, Codycooke, Malokyle

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