CC31xx HTTP Server

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Overview

This sample application demonstrates the capability of CC3100 device to work as a web-server and allowing the end-users to communicate w/ it using standard web-browsers.

For more information refer to **HTTP Server** section of Programmers Guide ^[1]



Note: This wiki page is only applicable for CC3100-SDK v0.5.2 and upward releases. For documentation on older SDKs' examples, refer corresponding file in <cc3100-sdk-installation-location>\cc3100-sdk\docs\examples\

Application details

This application configures the CC3100 in AP mode with a pre-defined SSID-NAME and uses the sample HTML pages to toggle on-board LEDs. **GET** and **POST** tokens are used to get the LEDs' status and toggle the LEDs respectively. Clients can connect to CC3100 and request for web-pages using the IP of device from any standard web browser. The HTML pages provided with the sample application needs to be downloaded on serial-flash using CCS_UniFlash ^[2] utility. The authentication parameters and domain name can be changed using corresponding host-driver APIs.

Usage

- Flash 'main.html' and 'blink_led.html' on serial-flash by following the below steps:
 - If CC3100 SDK is installed at default location, 'i.e at 'C:\ti\CC3100SDK', then:
 - Open the session-file at 'C:/ti/CC3100SDK/cc3100-sdk/examples/http_server/uniflash_template/http_server.ucf' in Uniflash
 - 2. Flash the files on the device. Uniflash_User_Guide has detailed instructions for flashing
 - If CC3100 SDK is not installed at default location, then:
 - 1. Open '<cc3100-sdk-installation>/examples/http_server/uniflash_template/http_server.ucf' session file in Uniflash.
 - 2. Modify 'Url' for all the files in the list
 - 3. Flash the files to the device. Uniflash User Guide is has detailed instructions for flashing
- Configure the terminal program for seeing the logs [I CC31xx_&_CC32xx_Terminal_Setting_Wiki [3]] has
 detailed instructions for flashing
- Edit main.c and modify the value for SSID_NAME
- Build and launch the project. CC3100 will come-up in AP mode w/ the value set above as its SSID name
- Connect a client w/ CC3100 using its SSID name
- Open a web-browser on the client and enter the IP of CC3100 in the client's address bar

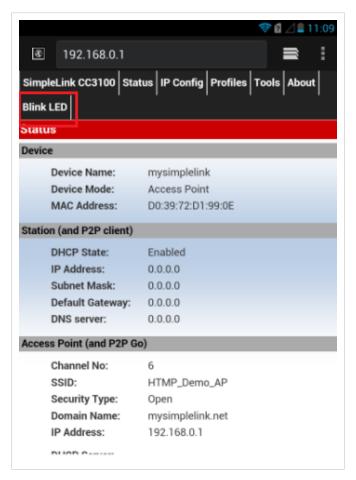
```
Default IP address is 192.168.1.1

Alternatively, 'mysimplelink.net' can also be entered for accessing the web page
```

• Use authentication parameters displayed on the terminal to log in.

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• On the page that gets displayed, click on the 'Blink LED'



• Use LED buttons to turn ON/OFF the LEDs on the MCU board.

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Note: : User needs to reconfigure the device in 'Station-Mode' for executing other sample applications. Refer function **configureSimpleLinkToDefaultState** in this example's **main.c** for configuring the device in 'Station-Mode'.

Limitations/Known Issues

• Supports HTTP 1.0 only

References

- [1] http://www.ti.com/lit/pdf/swru368
- [2] http://www.ti.com/tool/uniflash
- $[3] \ http://processors.wiki.ti.com/index.php/CC31xx_\&_CC32xx_Terminal_Setting$

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