

CC31xx HTTP Server

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 v1.0.0** and upward releases. For documentation on older SDKs' examples, refer corresponding file in `<cc3100-sdk-installation-location>\cc3100-sdk\docs\examples\`

[Return to CC31xx & CC32xx Home Page](#)

[Return to CC31xx Sample Applications](#)

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.

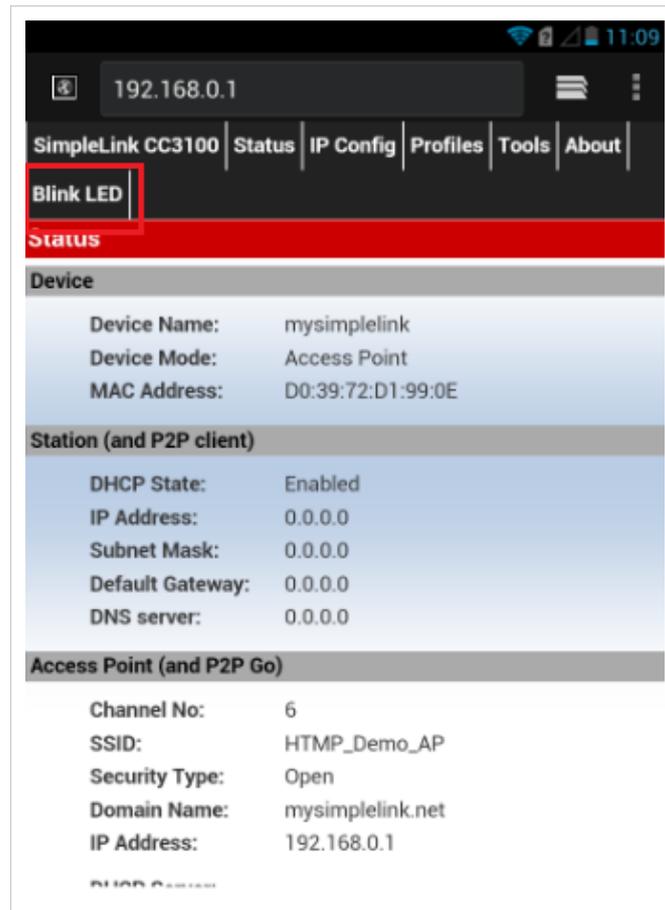
Usage

- Flash 'main.html' and 'blink_led.html' on serial-flash by following the below steps:
 - Open the Configuration-file at
'<cc3100-sdk-installation>/examples/http_server/uniflash_template/http_server.ucf' in Uniflash
 - Flash the files on the device. Uniflash_User_Guide has detailed instructions for flashing
- Configure the terminal program for seeing the logs - [CC31xx_&_CC32xx_Terminal_Setting_Wiki ^[3]] has detailed instructions for flashing
- Edit **sl_common.h** and modify the value for **SSID_AP_MODE**, **PASSWORD_AP_MODE** and **SEC_TYPE_AP_MODE**.
- 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

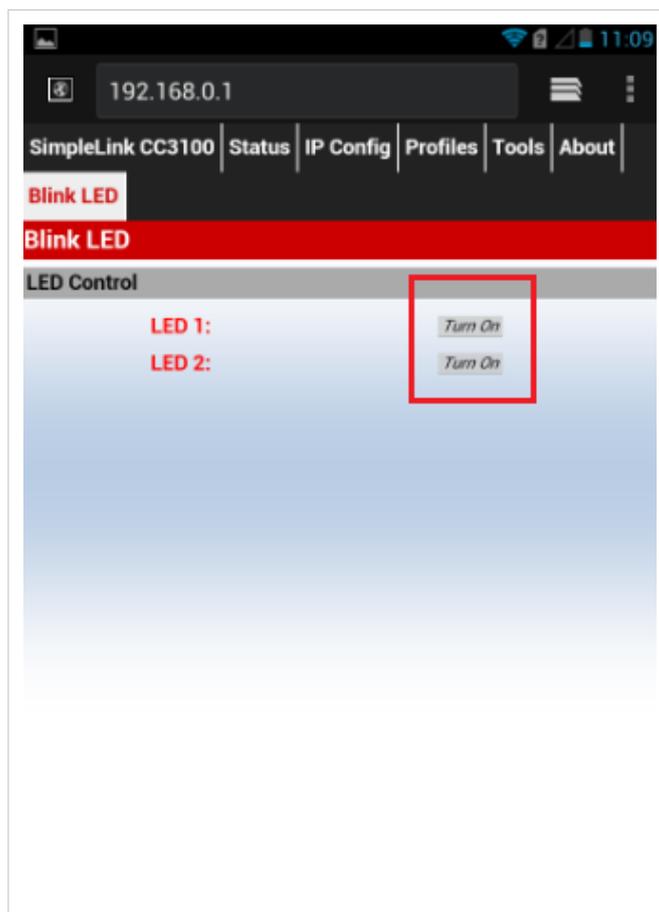
```
Default IP address is 192.168.1.1
```

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

- Use authentication parameters displayed on the terminal to log in.
- On the page that gets displayed, click on the 'Blink LED'



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



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

Article Sources and Contributors

CC31xx HTTP Server *Source:* <http://processors.wiki.ti.com/index.php?oldid=184916> *Contributors:* A0131814, A0132173, A0221015, Codycooke, Malokyle

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