

# 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 <sup>[1]</sup>

**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\`

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## 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 <sup>[2]</sup> utility. The authentication parameters and domain name can be changed using corresponding host-driver APIs.

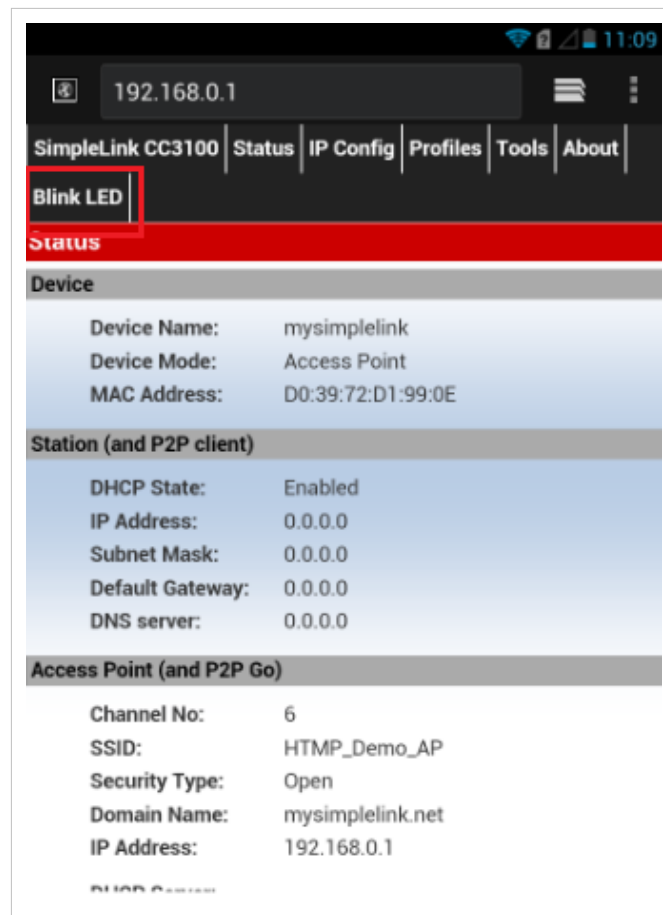
## Usage

- 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 <sup>[3]</sup> ] 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

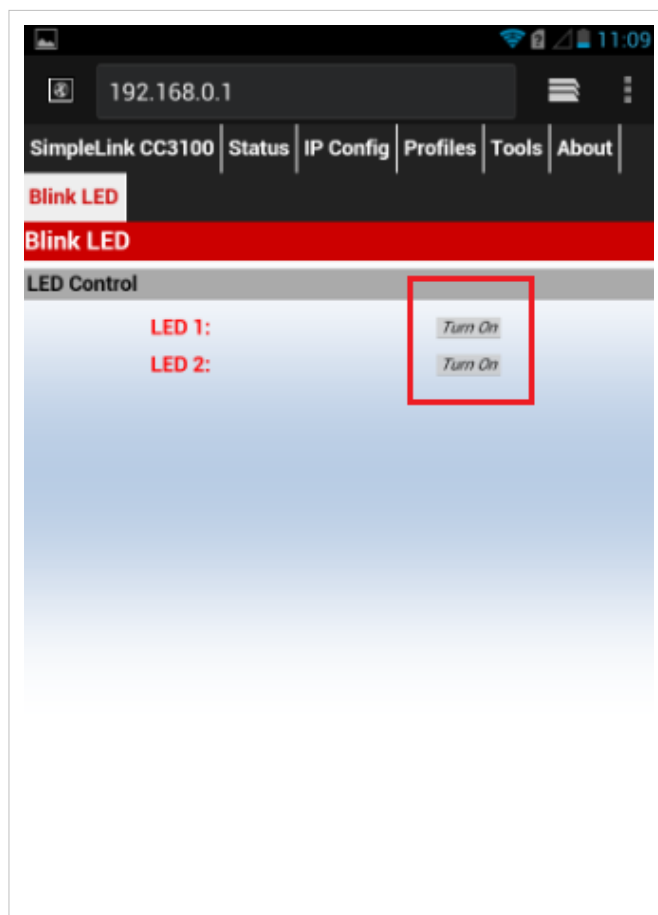
Default IP address is 192.168.1.1

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](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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**File:Cc31xx return sample apps.png** *Source:* [http://processors.wiki.ti.com/index.php?title=File:Cc31xx\\_return\\_sample\\_apps.png](http://processors.wiki.ti.com/index.php?title=File:Cc31xx_return_sample_apps.png) *License:* unknown *Contributors:* A0221015

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