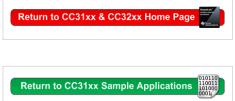
# **CC31xx IP Configuration Application**

### Overview

This sample application demonstrates how to configure a static IP address for CC3100. The device connects to the AP w/ the configured static IP. The IP address will be stored in the non-volatile memory.



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\

## Source Files briefly explained

i. main - Initializes the device, configures CC3100 for static IP and connects to AP.

## **Application details and Usage**

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs [I CC31xx\_&\_CC32xx\_Terminal\_Setting\_Wiki <sup>[1]</sup>] has detailed instructions for configuring the terminal-program
- Edit values for below macros in main.c for configuring the static IP address:

```
#define CONFIG_IP SL_IPV4_VAL(192,168,1,45)
```

• Edit values for below macros in **main.c** per the APs properties:

```
#define AP_MASK SL_IPV4_VAL(255,255,255,0)

#define AP_GATEWAY SL_IPV4_VAL(192,168,1,1)

#define AP_DNS SL_IPV4_VAL(0,0,0,0)
```

• Edit following parameters in **sl\_common.h** - The device connects to this AP on getting the corresponding command from application:

```
#define SSID_NAME "<ap_name>"
#define SEC_TYPE SL_SEC_TYPE_OPEN
#define PASSKEY ""
```

- Build and run the application
- See the self explanatory logs on the terminal-program's console.

```
The device connect to the '<ap_name>' access-point w/ the static IP defined in 'CONFIG_IP'. The connection could be checked by pinging CC3100 on the static IP address
```

```
IP configuration application — Version 1.1.0

*************************

Device is configured in default state

Device started as STATION

Configuring device to connect using static IP

Connection established w/ AP and IP is configured
```

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

Also, defining **USE\_DHCP** in this sample application configures the device in DHCP mode

## **Limitations/Known Issues**

None

## References

[1] http://processors.wiki.ti.com/index.php/CC31xx\_&\_CC32xx\_Terminal\_Setting

# **Article Sources and Contributors**

CC31xx IP Configuration Application Source: http://processors.wiki.ti.com/index.php?oldid=184918 Contributors: A0131814, A0132173, A0221015, Codycooke, Malokyle

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