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 - [| CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] 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
```

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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