# **CC31xx Mode Config Application**

# Overview and application details

This sample application demonstrates how to configure CC3100 device in **STATION** or **Access Point** mode. This application uses host-driver APIs to configure the device in either of these two modes and shouldn't be confused w/ **Force AP Mode** which is used to force CC3100 to wake-up in AP mode and run with pre-defined configurations.



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\

## Source Files briefly explained

i. main - Configure the station/AP mode, initialize the device and in station mode connects to AP.

## **Usage**

**Prerequisite:** This application requires an access-point with internet connectivity

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs [l CC31xx\_&\_CC32xx\_Terminal\_Setting\_Wiki <sup>[1]</sup>] has detailed instructions for configuring the terminal-program
- Define \_\_CONFIGURE\_AP\_\_ for configuring CC3100 in AP mode. If this macro is undefined, CC3100 will be configured in STA mode
- Edit main.c and set values for below macros:
- 1. In STA mode, edit following parameters to establish connection w/ an AP.

```
#define SSID_NAME "<ap-name>"
#define SEC_TYPE SL_SEC_TYPE_OPEN
#define PASSKEY ""
```

2. In AP mode, CC3100 will come-up in AP mode w/ below credentials - The security type is OPEN.

```
#define AP_SSID_NAME "CC3100_DEMO_AP"
```

- Build and launch the application
- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal

Mode config application — Version 1.0.0

\*

Device is configured in default state

Configuring device in AP mode

Device successfully configured in AP mode

Mode config application — Version 1.0.0

\*

Device is configured in default state

Configuring device in station mode

Connection established w/ AP and IP is acquired

**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**

None

## References

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

# **Article Sources and Contributors**

CC31xx Mode Config Application Source: http://processors.wiki.ti.com/index.php?oldid=180032 Contributors: A0131814, A0132173, A0221015, Codycooke, Malokyle

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