

CC3100 SLS Getting started with WLAN AP

Overview and application details

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This sample application demonstrates how to configure CC3100 in Access-Point mode. Any WLAN station in its range can connect/communicate to/with it as per the standard networking protocols. On a successful connection, the device pings the connected station.

For information on how to use Visual-Studio or Eclipse to compile and run this application, refer to `cc3100_getting_started_guide_swru375` ^[1] in '<cc3100/>docs' folder.

By default, this application communicates w/ CC3100 over SPI. The SDK has UART-Drivers as well for 'SimpleLink Studio' platform. For using the UART interface to communicate w/ CC3100, macro **SL_IF_TYPE_UART** has to be defined in the application-project's properties. Also, 'COMM_PORT_NUM in main.c **needs to be changed to the first com-port that gets enumerated for 'J6' of 'CC31xxEMUBOOST Brd'.** **In case four ports are getting enumerated, user should use the third com-port.**

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 it in AP mode and verifies the connection status

Usage

- € Build and launch the application using VS or Eclipse
- € The application shall request user for the SSID name and security configuration of the device in AP mode - Enter the required details on the terminal

Note: The device will be configured in AP mode and shall wait for clients to connect w/ it. It also pings the connected clients to check the connection status

- € On a success, below message will be displayed on the terminal.

```
*****
Getting started with AP App
1.2.0
*****
Device is configured in default state
Please input the SSID name for AP mode:
cc3100_AP
Encryption Types for AP mode:
1: Open
2: WEP
3: WPA
Please enter the corresponding number for the encryption type:
1
Device successfully configured in AP mode
Connect client to AP cc3100_AP
Client connected
Start pinging to client
Ping successful
Press any key to continue . . . _
```

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://www.ti.com/lit/pdf/swru375>

Article Sources and Contributors

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