CC31xx SLS Getting started with WLAN Station

Overview and application details

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This sample application demonstrates how to start CC3100 in **WLAN-Station** mode and connect to a Wi-Fi access-point. The application connects to an access-point and pings the gateway. It also checks for an internet connectivity by pinging "www.ti.com"

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.

To use the CC3100 UART interface, define **SL_IF_TYPE_UART** in the project's property. Change the **COMM_PORT_NUM** in 'main.c' to first com-port that gets enumerated for 'J6' of 'CC31xxEMUBOOST Brd'. In case four ports are getting enumurated 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, connects to a AP and verifies the connection status

Usage

- Build and launch the project using VS or Eclipse
- The application requests user for the AP name and connects to the same

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Note: It checks for a valid IP connection, by pinging the gateway. It also checks for an internet connection by pinging to "www.ti.com"
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- On success, below message shall be displayed on the terminal

```
 Getting started with station application - Version 1.1.0
************************************************************
Host Driver Version: 1.0.0.1
Build Version 2.1.0.12.31.1.1.0.5.1.0.3.20
Device is configured in default state
Device started as STATION
Please input the SSID you wish to connect to:
TP-LINK-APK-152
Encryption Types:
1:  Open
2:  WEP
3:  WPA
Please enter the corresponding number for the encryption type:
1
Connecting to AP TP-LINK-APK-152...
Connection established with AccessPoint and IP is acquired
Checking connection to LAN - pinging...!
Device successfully connected to the LAN
Checking connection to Internet - pinging www.ti.com ...!
Device successfully connected to the Internet
Press any key to continue . . .
```

Limitations/Known Issues

None

References

[1] http://www.ti.com/lit/pdf/swru375

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