CC31xx Getting Started with WLAN Station

Overview and application details

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"



By default, this application communicates w/ CC3100 over SPI. The SDK has UART-Drivers as well for MSP430F5529LP and Tiva-C platforms. For using the UART interface to communicate w/ CC3100, macro SL_IF_TYPE_UART has to be defined in the application-project's properties.

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

• main - Initializes the device, connects to an AP and verifies the connection status

Usage

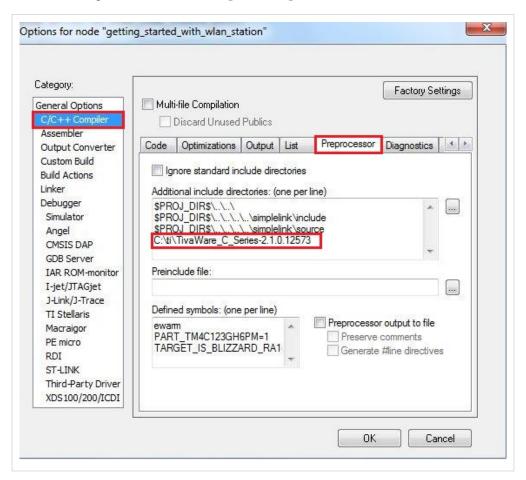
Prerequisite: This application requires an access-point with internet connectivity

- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs [I
 CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] has detailed instructions for configuring the terminal-program
- Open main.c and and change SSID_NAME, SEC_TYPE and PASSKEY as per your access-point's properties.
 SimpleLink device will connect to this AP when the application is executed
- Build and run the project using IAR/CCS
- See the self explanatory logs on the terminal-program's console. On success, below message will be displayed on the terminal

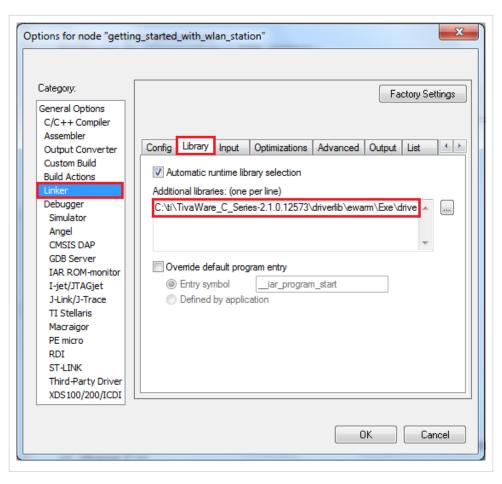
Building for Tiva-C LaunchPad

To build the application for Tiva-C LaunchPad, follow below steps:

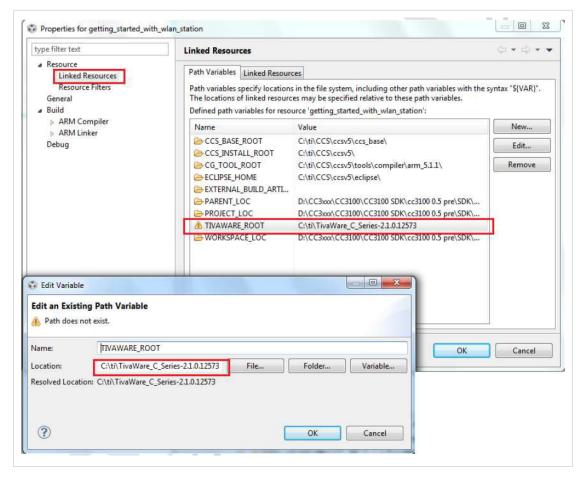
- IAR
 - Open the project's **Options**
 - Replace the tivaware path under C/C++ Compiler->Preprocessor section



• Replace the tivaware library path under Linker->Library section



- Build the project
- Code Composer Studio
 - Open the project property
 - Update TIVAWARE_ROOT variable available under Resource->Linked Resources with tivaware root directory



• Build the project

Limitations/Known Issues

None

References

[1] http://processors.wiki.ti.com/index.php/CC31xx_&_CC32xx_Terminal_Setting

Article Sources and Contributors

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