

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"

[Return to CC31xx & CC32xx Home Page](#)[Return to CC31xx Sample Applications](#)

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 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

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

Usage

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

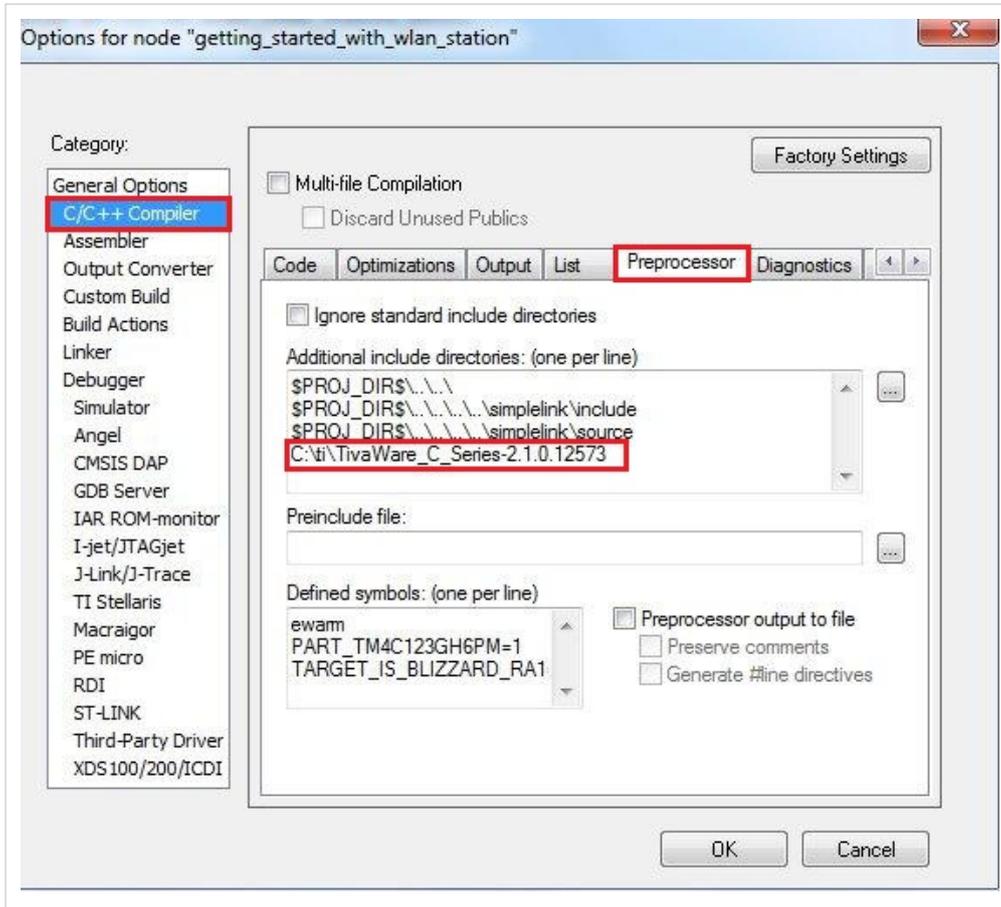
- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - [CC31xx_&_CC32xx_Terminal_Setting_Wiki^[1]] has detailed instructions for configuring the terminal-program
- Open `sl_common.h` and change **SSID_NAME**, **SEC_TYPE** and **PASSKEY** as per your access-point's 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

```
Getting started with station application - Version 1.2.0
*****
Device is configured in default state
Device started as STATION
Connection established w/ AP and IP is acquired
Pinging...!
Device successfully connected to the LAN
Device successfully connected to the internet
```

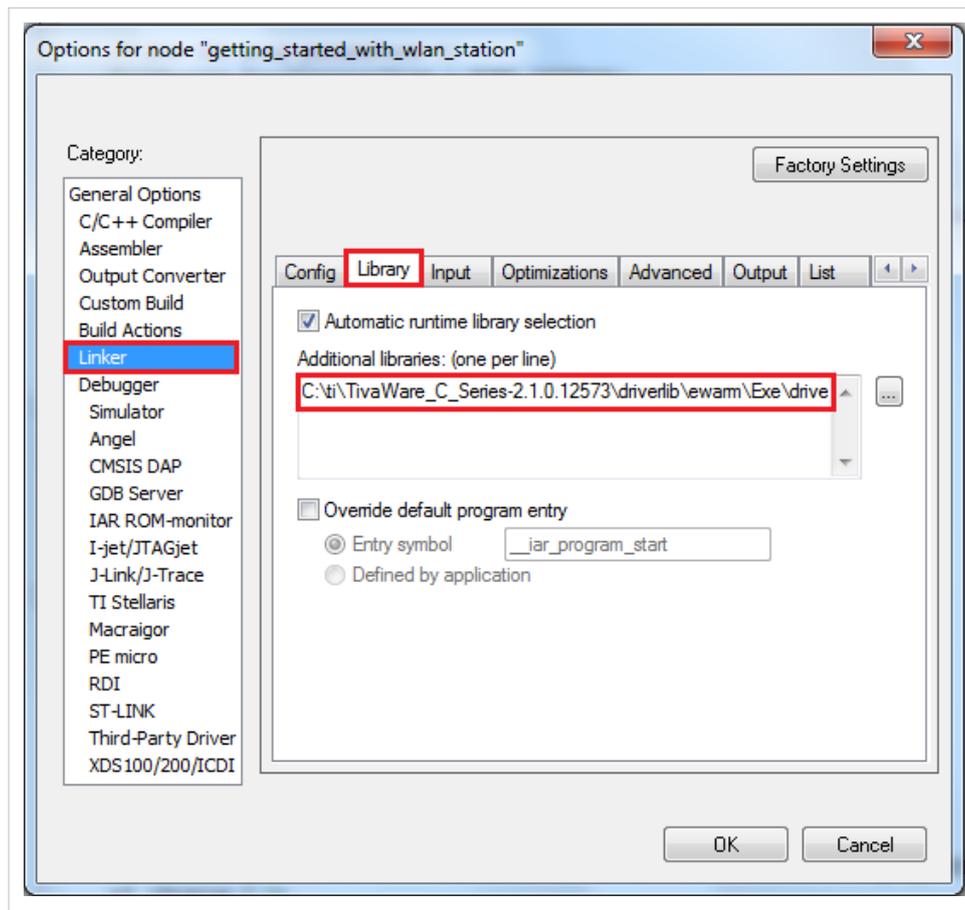
Building for Tiva-C LaunchPad

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

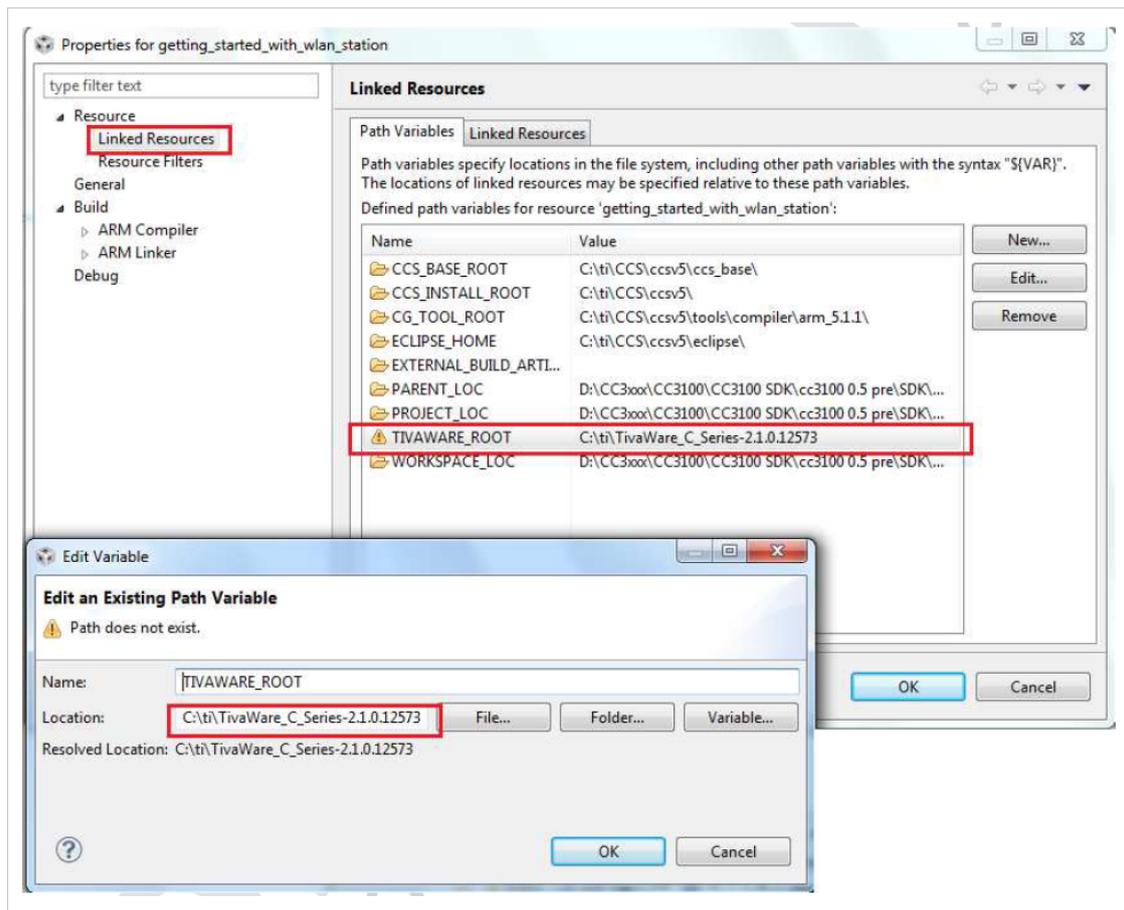
- IAR
 - Open the project's **Options**
 - Replace the tivaware path under **C/C++ Compiler->Preprocessor** section



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



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



- Build the project

Note: The solution provided in SDK for tiva-c-connected-launchpad is using the Boosterpack 2 interface.

Limitations/Known Issues

None

References

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

Article Sources and Contributors

CC31xx Getting Started with WLAN Station *Source:* <http://processors.wiki.ti.com/index.php?oldid=194902> *Contributors:* A0131814, A0132173, A0221015, Codycooke, Malokyle, Raghshenoy

Image Sources, Licenses and Contributors

File:Cc31xx cc32xx return home.png *Source:* http://processors.wiki.ti.com/index.php?title=File:Cc31xx_cc32xx_return_home.png *License:* unknown *Contributors:* A0221015

File:Cc31xx return sample apps.png *Source:* http://processors.wiki.ti.com/index.php?title=File:Cc31xx_return_sample_apps.png *License:* unknown *Contributors:* A0221015

Image:Getting_started_with_station_1.png *Source:* http://processors.wiki.ti.com/index.php?title=File:Getting_started_with_station_1.png *License:* unknown *Contributors:* A0132173

Image:figure8.jpg *Source:* <http://processors.wiki.ti.com/index.php?title=File:Figure8.jpg> *License:* unknown *Contributors:* A0131814

Image:figure9.png *Source:* <http://processors.wiki.ti.com/index.php?title=File:Figure9.png> *License:* unknown *Contributors:* A0131814

Image:figure7.png *Source:* <http://processors.wiki.ti.com/index.php?title=File:Figure7.png> *License:* unknown *Contributors:* A0131814