

# CC3100 Getting Started with WLAN AP

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## 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.

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, configures it in AP mode and verifies the connection status

## Usage

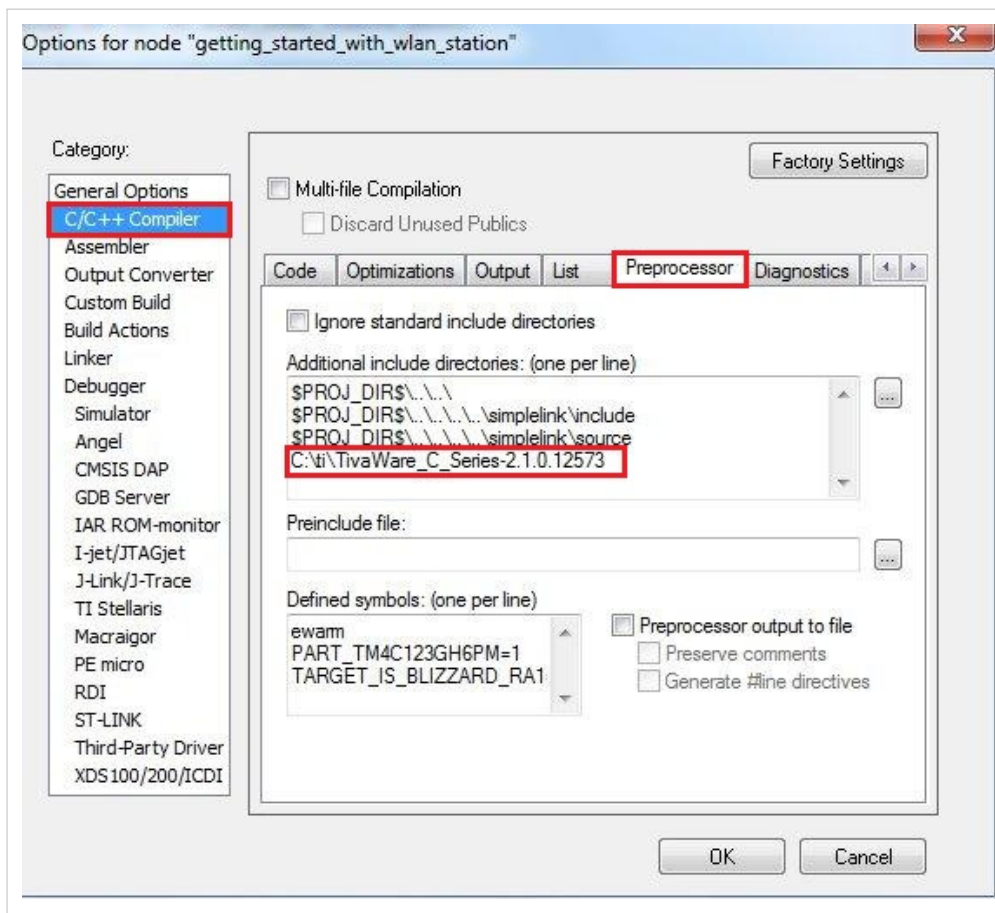
- Connect the board to a Windows-PC and configure the terminal-program for seeing the logs - CC3100 & CC3200 Terminal Setting has detailed instructions for configuring the terminal-program
- Open **sl\_common.h** and modify values of **SSID\_AP\_MODE**, **PASSWORD\_AP\_MODE** and **SEC\_TYPE\_AP\_MODE**. These values will define the device's credentials in AP mode
- Build and run the application using IAR/CCS
  - 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\
- See the self explanatory logs on the terminal-program's console.
- Connect a client to the device and wait for few seconds for the test to complete
- On success, below message will be displayed on the terminal

**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'.

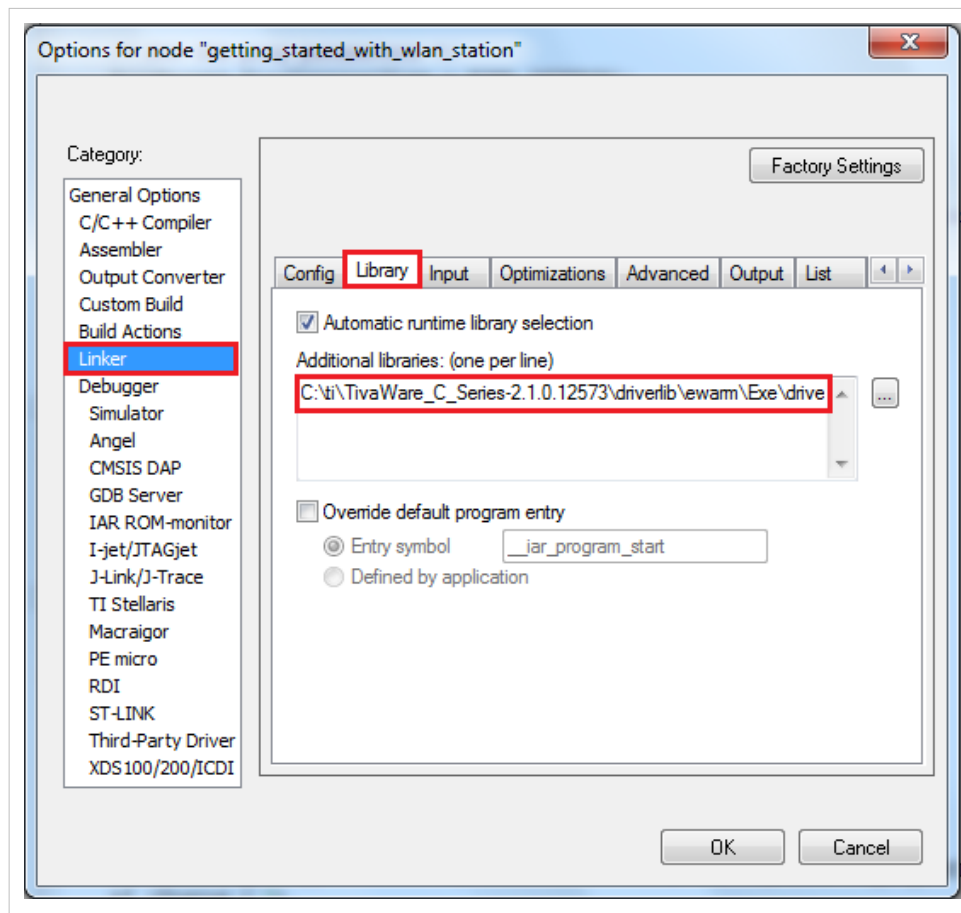
## Building for Tiva-C LaunchPad

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

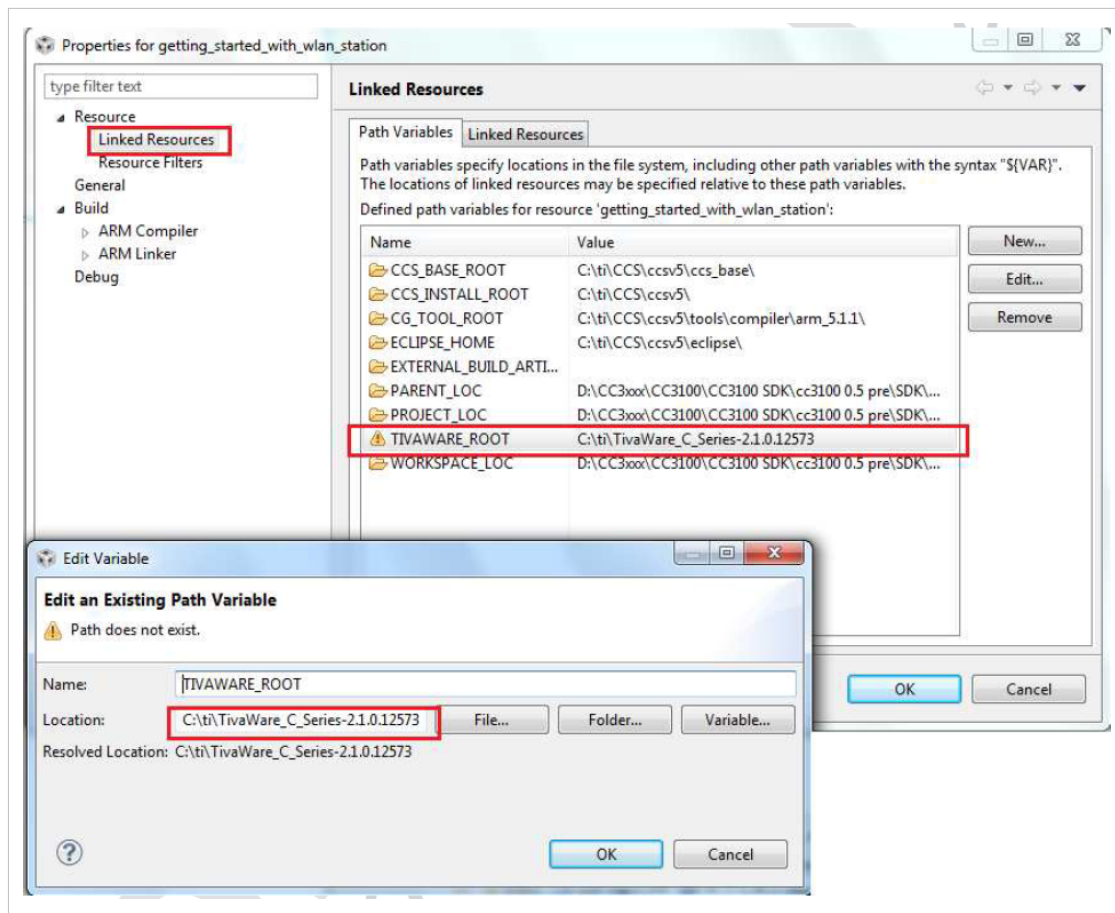
- IAR
  - Open the project's **Options**
  - Replace the tivaware path under **C/C++ Compiler->Preprocessor** section



- 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

# Article Sources and Contributors

**CC3100 Getting Started with WLAN AP** *Source:* <http://processors.wiki.ti.com/index.php?oldid=229441> *Contributors:* A0131814, A0132173, A0221015, Codycooke, Malokyle, Raghshenoy, SarahP

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