# CC31xx Getting Started with WLAN AP

# Overview and application details

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 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, 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 [l
   CC31xx\_&\_CC32xx\_Terminal\_Setting\_Wiki <sup>[1]</sup>] has detailed instructions for configuring the terminal-program
- Open **main.c** and modify values of **AP\_SSID\_NAME**, **AP\_PASSWORD** and **SEC\_TYPE**. 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\

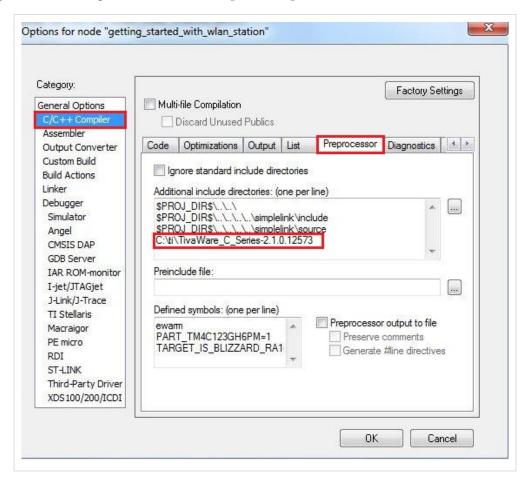
- See the self explanatory logs on the terminal-program's console.
- Connect a client to the device and wait for few seconds for the test to complete
- · On success, below message will be displayed on the terminal

**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'.

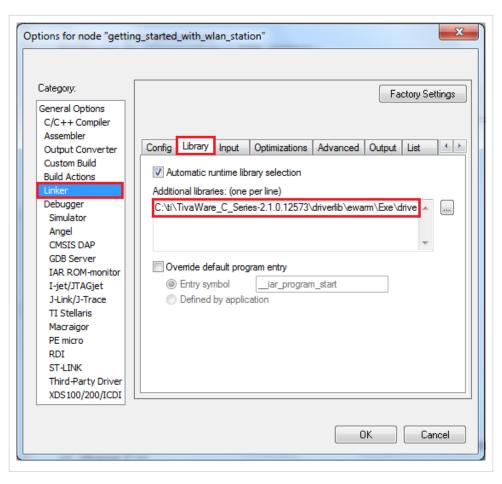
# **Building for Tiva-C LaunchPad**

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

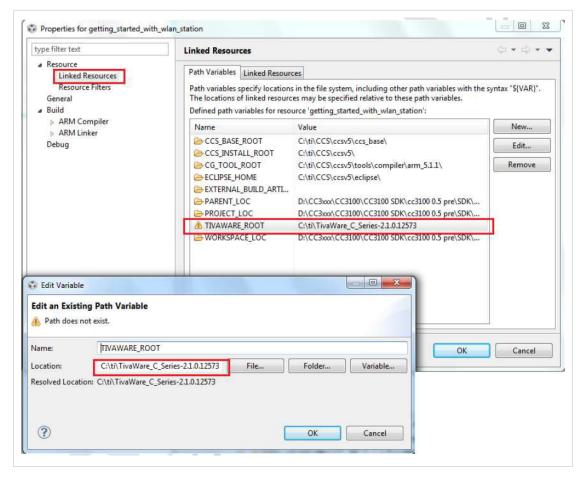
- IAR
  - Open the project's **Options**
  - Replace the tivaware path under C/C++ Compiler->Preprocessor section



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



- Build the project
- Code Composer Studio
  - Open the project property
  - Update 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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