# **CC3100 Get Weather Application**

## **Overview and application details**

This sample application demonstrates how to connect to

**openweathermap.org** server and request for weather details of a city. The application opens a TCP socket w/ the server and sends a HTTP **Get** request to get the weather details. The received data is processed and displayed on the console

**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 an AP, opens a TCP socket, requests and displays the weather information.

## 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 CC3100 & CC3200 Terminal Setting has detailed instructions for configuring the terminal-program
- From openweathermap.org create an API Key and modify the 'API Key' value in main.c found below:

#define POST\_BUFFER "&mode=xml&units=imperial&APPID=<API KEY> HTTP/1.1\r\nHost:api.openweathermap.org\r\nAccept: \*/"

• Edit sl\_common.h and modify the values of below macros for the device to connect to the AP

| #define SSID_N | NAME "< | ap_name>"      |
|----------------|---------|----------------|
| #define SEC_TY | YPE SL  | _SEC_TYPE_OPEN |
| #define PASSKE | EY ""   |                |

• Edit below parameters in main.c for getting the weather information from server:

#define CITY\_NAME "<city>"

- Build and launch the application
- See the self explanatory logs on the terminal-program's console.
  - The application connects to the weather-server and opens an TCP socket to communicate w/ it.
  - It receives and processes the weather-information and displays it on the console
- On success, below message will be displayed on the terminal

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## Limitations/Known Issues

None

## **Article Sources and Contributors**

CC3100 Get Weather Application Source: http://processors.wiki.ti.com/index.php?oldid=233545 Contributors: A0131814, A0132173, A0221015, Codycooke, Malokyle, SarahP

## **Image Sources, Licenses and Contributors**

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