

CC31xx SLS Get Weather Application

Overview and application details

This sample application demonstrates the usage of 'Simplelink-Studio' (SLS) environment and TCP sockets to communicate w/ weather server. SLS Get-Weather application connects to "openweathermap.org" server and requests for weather details of a city. It processes the received data and displays it on console. It opens a TCP socket with server and sends a HTTP Get request to get the weather details.

For information on how to use Visual-Studio or Eclipse to compile and run this application, refer 'Environment Setup' section of 'simplelink_studio_guide' in '<cc3100/>docs/app_notes' folder.

To use the CC3100 UART interface define 'SL_IF_TYPE_UART' in the project property. Change the COMM_PORT_NUM in 'main.c' to first com-port that gets enumerated for 'J1' of 'CC31xx FTDI Debug Brd'.

Source Files briefly explained

i. main - Initializes the device, connects to an AP, opens a TCP socket, requests and displays the weather information.

Usage

- Build and launch the application using Visual-Studio or Eclipse.
- The application requests user for the AP's SSID and security parameters for establishing the connection. It also requests user for the city's name for getting the weather information. Enter the required information on the 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

```
Started Get-Weather Application
Please input the SSID you wish to connect to: CC3101-PLT-APK
Encryption Types:
1: Open
2: WEP
3: WPA
Please enter the corresponding number for the encryption type: 2
Please enter the password: ABCDE12345678
Connecting to AP CC3101-PLT-APK...
Connected to AP CC3101-PLT-APK. IP acquired.
Enter the city name or "QUIT" to quit#: Bangalore
*****
City: Bengaluru
Temperature: 89.6 F
Weather Condition: broken clouds
*****
Enter the city name or "QUIT" to quit#:
```

Limitations/Known Issues

None

Article Sources and Contributors

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