# CC31xx File Download Application

## **Overview and Application Details**

This sample application demonstrates how to connect w/ a server, download a file and save it on the serial-flash. The application developers can use this scheme to update files over the network

This application:



- connects to www.ti.com and downloads a 40KB file
- saves the file on the serial-flash as a temporary-file
- · verifies if the file is downloaded completely
- replaces the existing version of the file on the serial-flash and deletes the temporary-file.

If the application developer intends to download a file from the servers that don't support **Chuncked Format** for sending the data to their clients, he/she should modify the application for handling the responses from these servers.

The application developers can change the server and the requested file by modifying the values of **HOST\_NAME** and **PREFIX\_BUFFER** & **POST\_BUFFER** respectively. Size of the saved file can be changed by modifying the value of **SIZE\_45K** but the existing file at **FILE\_NAME** has to be deleted first.

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\

## **Usage**

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

- Connect the board to 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 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 application
- See the self explanatory logs on the terminal-program's console

The application connects to the www.ti.com and requests for

/lit/er/swrz044b/swrz044b.pdf from the server. The file is saved on
the serial flash as a temporary file whose name is defined by the macro

TEMP\_FILE\_NAME

It verifies if the file is downloaded completely and on a successful verification, replaces the original file FILE\_NAME w/ the downloaded file.

· On success, below message will be displayed on the terminal

```
File download application — Version 1.0.0

********************************

Device is configured in default state

Device started as STATION

Connection established w/ AP and IP is acquired

Device successfully connected to the server

Device successfully downloaded the file

Device successfully replaced the existing file w/ the new one
```

# **Limitations/Known Issues**

• The files can only be download from the servers that supports **Chuncked Format** for sending the data to their clients. If the application developer intends to download a file from the servers that don't support **Chuncked Format**, he/she should modify the application for handling the responses from these servers.

## References

[1] http://processors.wiki.ti.com/index.php/CC31xx\_&\_CC32xx\_Terminal\_Setting

# **Article Sources and Contributors**

CC31xx File Download Application Source: http://processors.wiki.ti.com/index.php?oldid=180177 Contributors: A0131814, A0131875, A0132173, A0221015, Malokyle

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