# 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 v1.0.0** and upward releases. For documentation on older SDKs' examples, refer corresponding file in **<cc3100-sdk-installation-location>\cc3100-sdk\docs\examples**

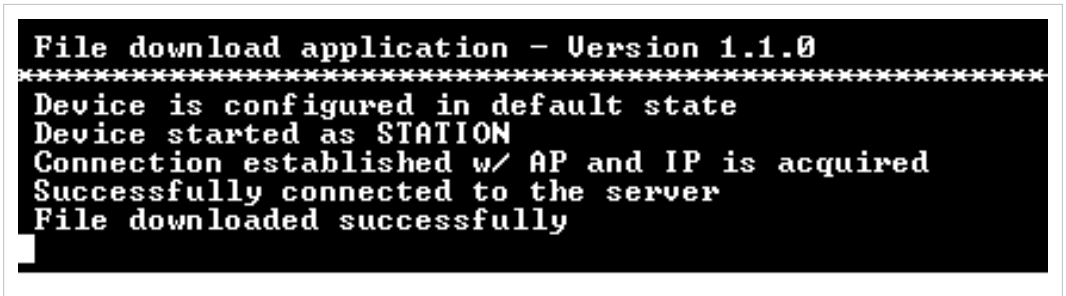
## Usage

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

- Connect the board to PC and configure the terminal program for seeing the logs - [| CC31xx_&_CC32xx_Terminal_Setting_Wiki [1]] has detailed instructions for configuring the terminal-program
- Open **sl_common.h** 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




## 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

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