

# CC3100 File Operations Application

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## Overview

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This sample application demonstrates the file-operation capabilities of CC3100 device. Serial-flash is used as the storage medium.

Page, sector and block size is given below:

- Page - 256 Bytes
- Sector - 4 Kb
- Block - 64 Kb

Serial-flash transfers data over McSPI interface. Different APIs are provided for:

- Serial-flash read
- Serial-flash write
- Sector Erase
- Block Erase
- Chip Erase

## Application details

This application demonstrates how to exercise the host-driver APIs for file-operations. It:

- opens an user file for **writing**
- writes "Old McDonalds" child song several times to get just below a 64KB file
- closes the user file
- opens the file again for **reading**
- reads the data and compares it with the stored buffer
- closes the user file

**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

- 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
- Build and launch the application
- See the self explanatory logs on the terminal-program's console.
  - Application open a file and write "Old MacDonalDs" child song 36 times to get just below 64 KB size
  - It reopens the same file in read-only mode and reads the file contents
- On success, below message will be displayed on the terminal

**Limitations/Known Issues**

- Up to 100 files are supported.
  - File size is limited to 1 MByte, API won't return error while opening a larger file.
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# Article Sources and Contributors

**CC3100 File Operations Application** *Source:* <http://processors.wiki.ti.com/index.php?oldid=229440> *Contributors:* A0131814, A0132173, A0221015, Codycooke, Malokyle, SarahP

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