

Procedure to Flash Firmware and Get Data from the Product

Please follow the steps below to ensure flashing programs will work properly.

Generate image using CCS

1. By default the board, SOP1 is having jumper on it
2. Open Uniflash and choose CC31XX/CC32XX from the device list

Run the UniFlash application. A list of all supported devices appears; choose *CC31xx / CC32xx* from the device list, as shown in [Figure 4-1](#).

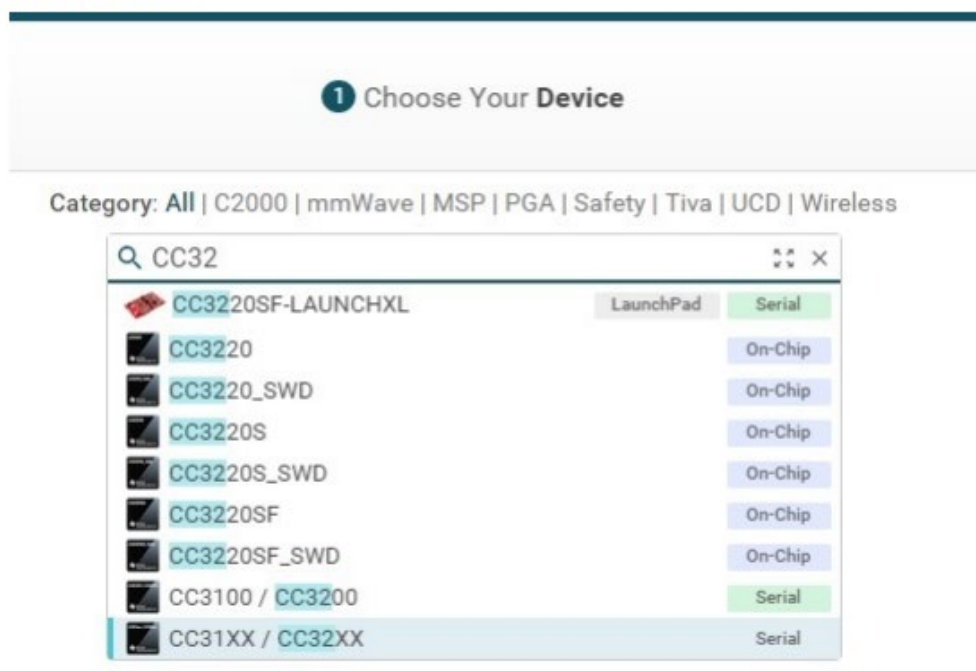
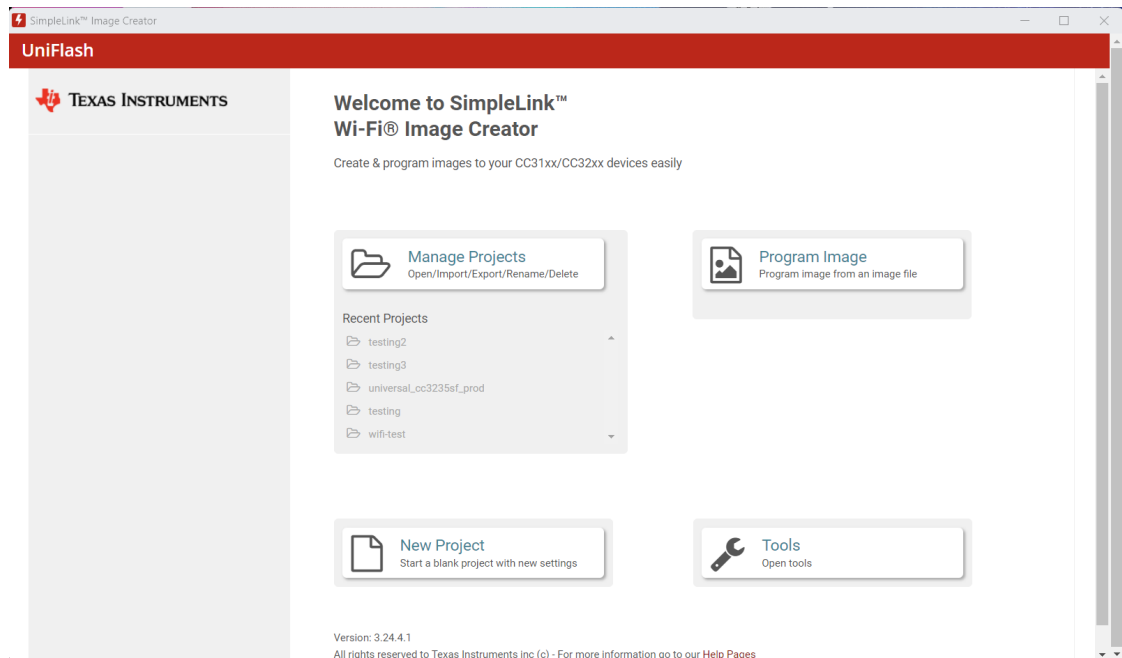


Figure 4-1. Opening ImageCreator Through UniFlash (1 of 2)

3. Open new project



4. Create a project name, choose the device type option according to the model number (This project using cc3230sf) and click the device mode into production mode

Start new project

Project Name

test

Project Description

Device Type

CC3230SF



Device Mode



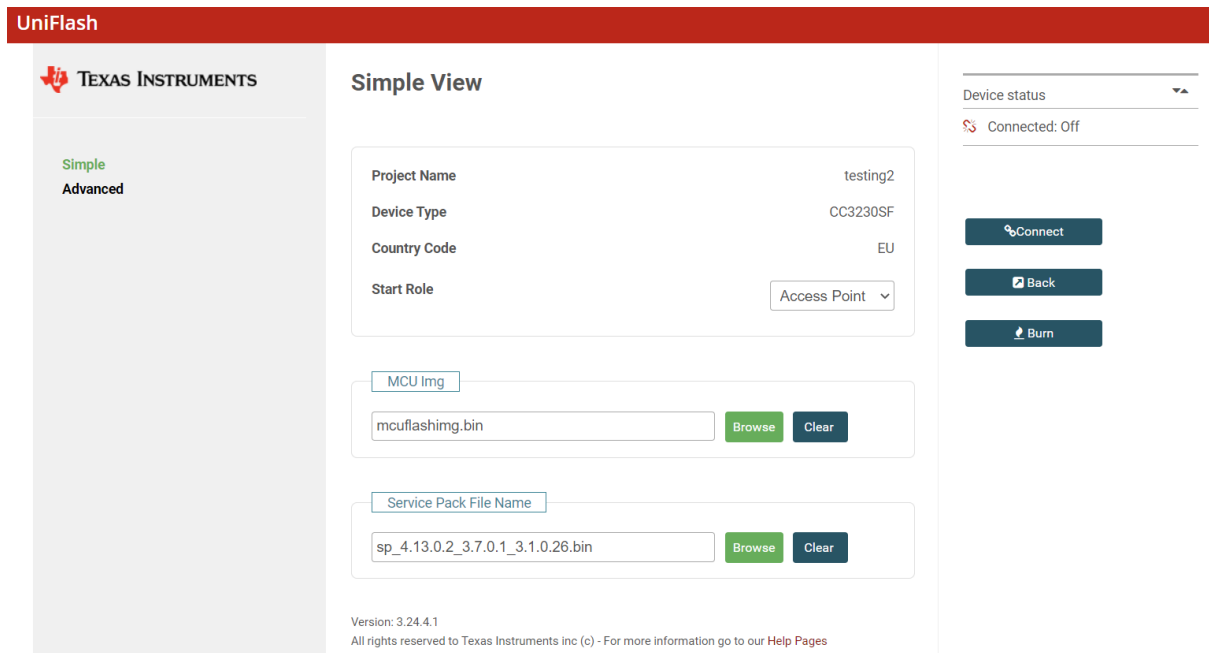
Production

<< Back

Create Project

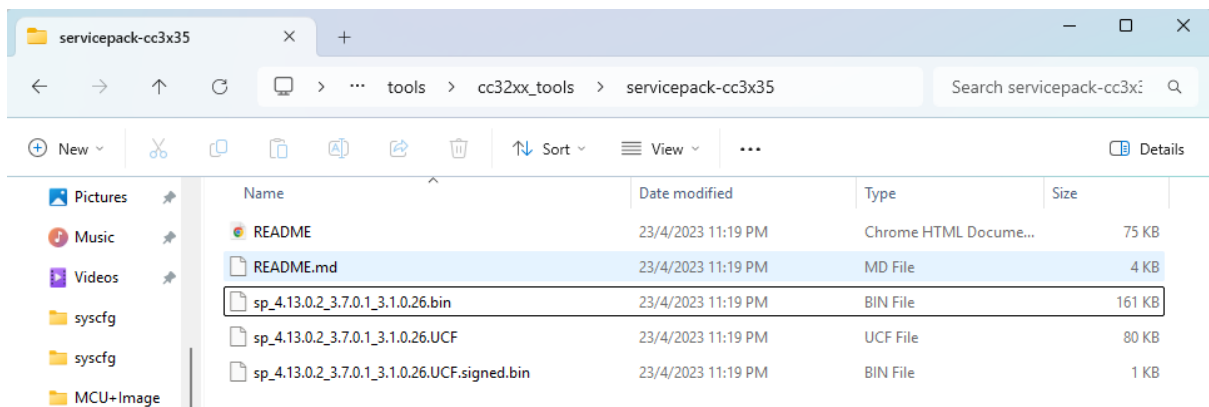
Version: 3.24.4.1

5. When create project user will be directed to this simple view page, thus there are 2 files will be added which consists of MCU img and Service pack file



- For MCU img, when click browse, find a project which have a bin format (Just open the generated MCU+ image folder after build the program in the CCS (**build the program first to create .bin file**))


- Meanwhile for the service pack file can locate the file in the SDK on user respective pc (e.g. **C:\ti\simplelink_cc32xx_sdk_7_10_00_13\tools\cc32xx_tools\servicepack-cc3x35**). Additionally choose the **sp_4.13.0.2_3.7.0.1_3.1.0.26.bin**



- After that, go to the Advanced mode on the left navigation side and go to testing (e.g. Advanced -> general – testing2). Untick the use device MAC Address

SimpleLink™ Image Creator

UniFlash

 **TEXAS INSTRUMENTS**

Simple

Advanced

General - testing2

Settings

System Setting

Device

Radio Settings

Device Identity

Role Settings

General Settings

STA/Wi-Fi® Direct Device

WLAN Settings

Network Settings

AP/Wi-Fi® Direct GO

WLAN Settings

Network Settings

Network Applications

HTTP Server

Files

User Files

Service Pack

General-> Settings

IC / Module

I/C

Image Mode

Production

Capacity

4M BYTE

Restore To Factory Configuration

Defaults and Image

☐ Use device MAC Address

08:00:28:11:22:33

Device status

Connected: Off

Connect

Back

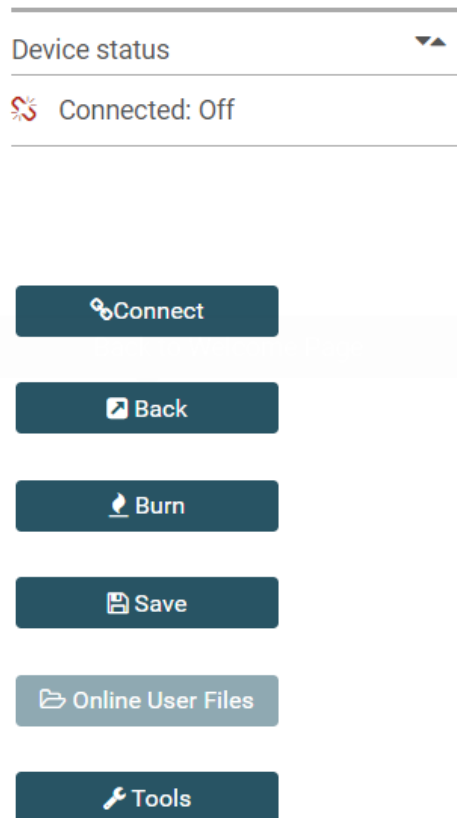
Burn

Save

Online User Files

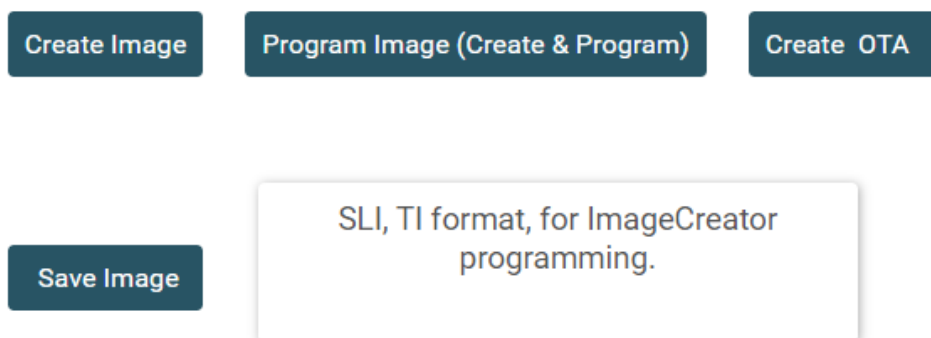
Tools

9. After performing all the necessary steps, then on the right side click the burn options



10. After clicking the burn options will be directed to this page. Click the create image after a while then save image (save it in any preferred directory). This will create a universal .sli file which can be flash in multiple boards

Generate Image

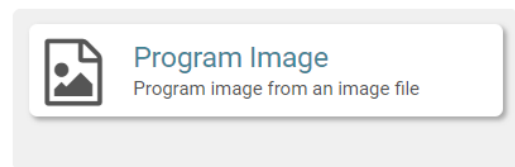
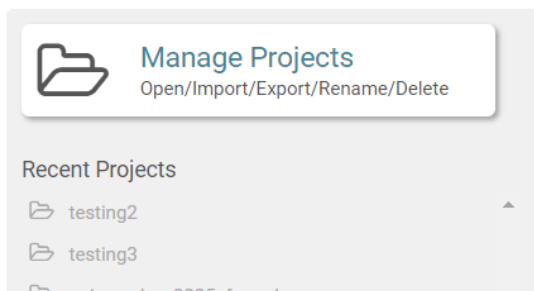


Testing the generated .SLI file using CLI step

11. Click the back button to go to the main menu and then click program image

Welcome to SimpleLink™ Wi-Fi® Image Creator

Create & program images to your CC31xx/CC32xx devices easily



12. In the program image just locate the directory of the saved image file from the 10th step. Finally, click the program image (Now can be flashed in the multiple board)

Program Image

Image File Name

testing2_Programming.sli

Browse

Image Key File Name

Browse

Vendor Certificate Catalog

☐ Use Vendor Certificate Catalog

<< Back

Program Image

Version: 3.24.4.1

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Functional Mode Step

1) **Unplug** the **USB (JTAG)** and **battery** from the product

- 2) By default, the jumper is connected to the SOP1, indicating it is in the flashing mode. Thus, we need to remove the jumper for release mode.
- 3) Plug the battery back into the product for a reset, then open the MQTT Broker and wait for at least a minute to get the results.

Reference :

- 1) https://www.ti.com/lit/ug/swru469h/swru469h.pdf?ts=1745143523971&ref_url=https%253A%252F%252Fdev.ti.com%252F
- 2) https://dev.ti.com/tirex/explore/node?node=A_AeMwEeGHutxa6hb3catsJg_SIMPL_ELINK-ACADEMY-CC32XX_-LLELo7_LATEST
- 3)