

1. Run with mmWaveStudio GUI

*Flash mss.bin、 bss.bin

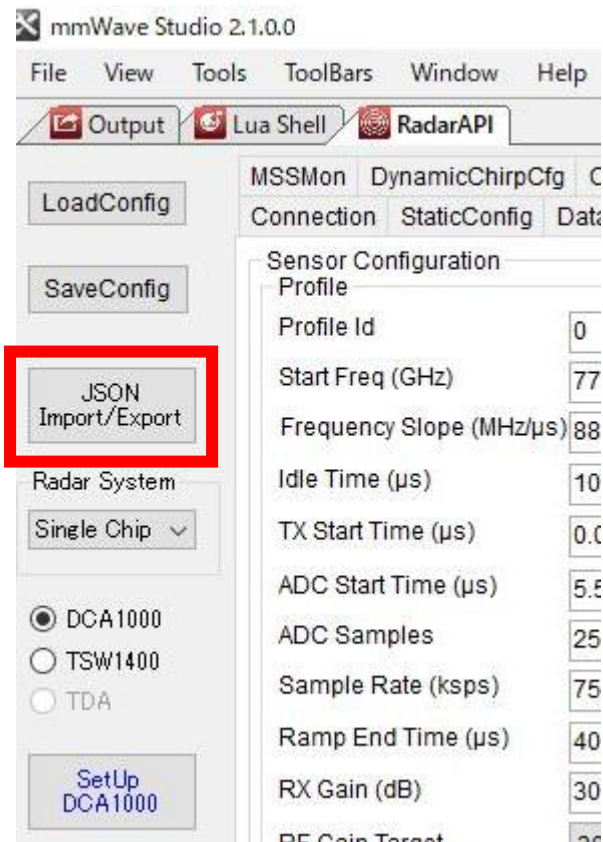
*SOP0,1,2=ON,**ON**,OFF

2. After completing the GUI settings, measure below



①DCA1000ARM ⇒ ②Trigger Frame ⇒ ③Stop Frame ⇒ ④PostProc

3. Generate JSON with mmWaveStudio GUI



Select JSON Export

4. Export

* Files should be in JSON format *

Capture Setup File

C:\ti\mmwave_studio_02_01_00_00\mmWaveStudio\JSONSample ▾ ... Import Setup

mmWave Configuration File

C:\ti\mmwave_studio_02_01_00_00\mmWaveStudio\JSONSample ▾ ... Import Load Configure Device

Export

Select the Waveform type

☐ Single Frame Chirp

☐ Advanced Frame Chirp

☐ Continuous Wave


The generated file is below:

- 20210527_test.setup.json
- 20210527_test.mmwave.json

----The above is the operation of mmWaveStudioGUI----

5. Uniflash

Flash


 UniFlash

UniFlashSession>About

Configured Device : Serial Connection > AWR1843 [download ccxml]

Program	Find and Configure Settings and Utilities
Settings & Utilities	<div><div>Q Search:</div><div>Enter Property ID Or Name To Search For Settings and Buttons</div></div>
Standalone Command Line	<div><div>Setup</div><div><div>Note: Example - COM1 (Windows), /dev/ttyACM0 (Linux)</div><div>COM Port: COM75</div><div>Target Memory Selection: SFLASH</div></div><div>Format</div><div><div><input checked="" type="checkbox"/> Format SFLASH Memory during flash file download</div><div>Note: Please power cycle device prior to clicking the Format button.</div><div>Format SFLASH</div></div></div>

DL

 UniFlash

UniFlashSession>About

Configured Device : Serial Connection > AWR1843 [download ccxml]

Program	Select and Load Images
Settings & Utilities	<div>Flash Image(s)</div> <div><div><input checked="" type="checkbox"/> Meta Image 1</div><div>mmwave_Studio_cli_xwr18xx.bin</div></div> <div><div><input type="checkbox"/> Meta Image 2</div><div></div></div> <div><div><input type="checkbox"/> Meta Image 3</div><div></div></div> <div><div><input type="checkbox"/> Meta Image 4</div><div></div></div>
Standalone Command Line	<div>Available Action(s) - 1 Image Selected</div> <div><div>Load Image</div><div>Note: Please power cycle your device before loading images</div></div>

Log

```
[2021/5/27 10:24:56] [INFO] Cortex_R4_0: Sending Erase command to device...  
[2021/5/27 10:24:38] [SUCCESS] Cortex_R4_0: -->Erase storage completed successfully!  
[2021/5/27 10:24:38] [INFO] Cortex_R4_0: Downloading [META_IMAGE1] size [146436]  
[2021/5/27 10:24:56] [INFO] Cortex_R4_0: SUCCESS!! File type META_IMAGE1 downloaded successfully to SFLASH.  
[2021/5/27 10:24:56] [INFO] Cortex_R4_0: Disconnecting from device on COM port COM75...  
[2021/5/27 10:24:56] [INFO] Cortex_R4_0: Flashing instance clean-up initiated...  
[2021/5/27 10:24:56] [INFO] Cortex_R4_0: Instance deinitialized!  
[2021/5/27 10:24:56] [SUCCESS] Program Load completed successfully.
```

6. mmWaveStudio CLI

*SOP0,1,2=ON,**OFF**,OFF

I modified the following in mmwaveconfig.txt to read the JSON generated earlier.

```
CONFIG_FILE_FORMAT=0  
CONFIG_JSON_CFG_PATH=C:\ti\mmwave_studio_02_01_00_00\mmWaveStudio\JSONSampleFiles\1  
8xx\20210527_test.setup.json
```

7. Run CLI Tool

```
C:\ti\mmwave_platform_1_2_1\tools\studio_cli\gui\mmw_cli_tool>mmwave_studio_cli.exe
===== mmWave Studio CLI Application =====

Configuring mmWave Sensor Device over UART...
mmWave Config Done!
Dcastart ★input
dcastop ★input
DCA1000 Capture is done!
Post processing the captured data...
..\mmw_post_proc\mmwave_postproc.exe
C:\ti\mmwave_platform_1_2_1\tools\studio_cli\gui\captured_adc_AWR1843
C:\ti\mmwave_studio_02_01_00_00\mmWaveStudio\JSONSampleFiles\18xx\20210527_test.setup.json
C:\ti\mmwave_platform_1_2_1\tools\studio_cli\gui\captured_adc_AWR1843\adc_data_Raw_0.bin AWR1843 All
warnings are in the state'off'.
It refers to the non-existent field'mmWaveDevices'.
error: JsonParser (line 7)
error: parameter_gen_from_Jason (line 56)
error: PostProcLogFile_interpreter (line 268)
error: RadarExplorer (line 64)
MATLAB:nonExistentField
```