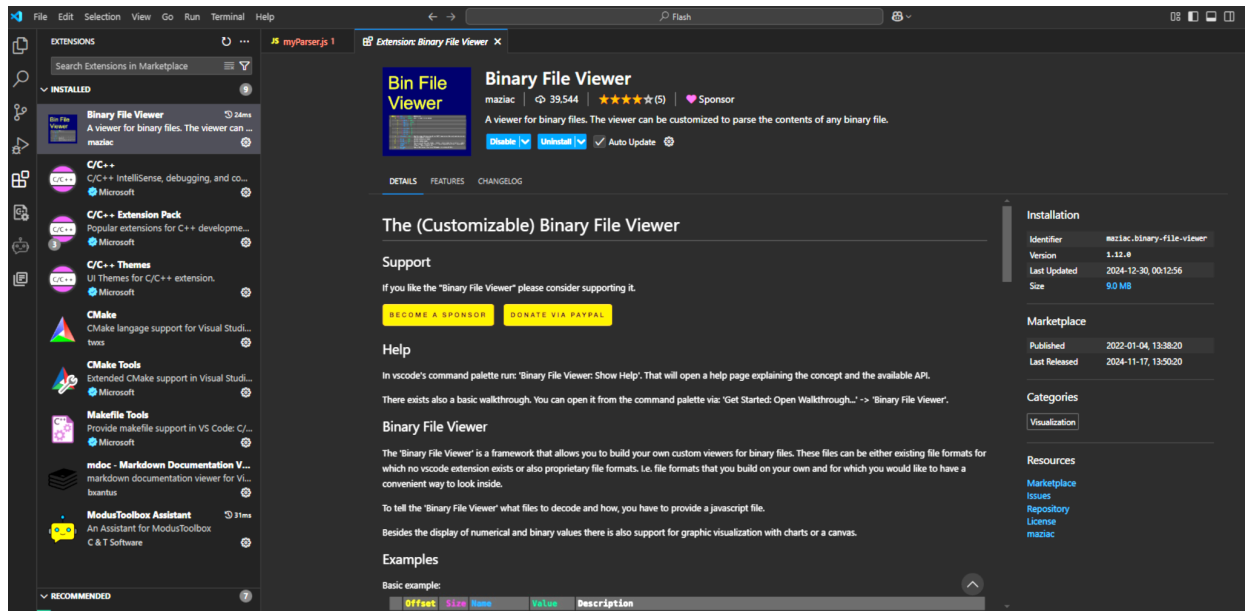


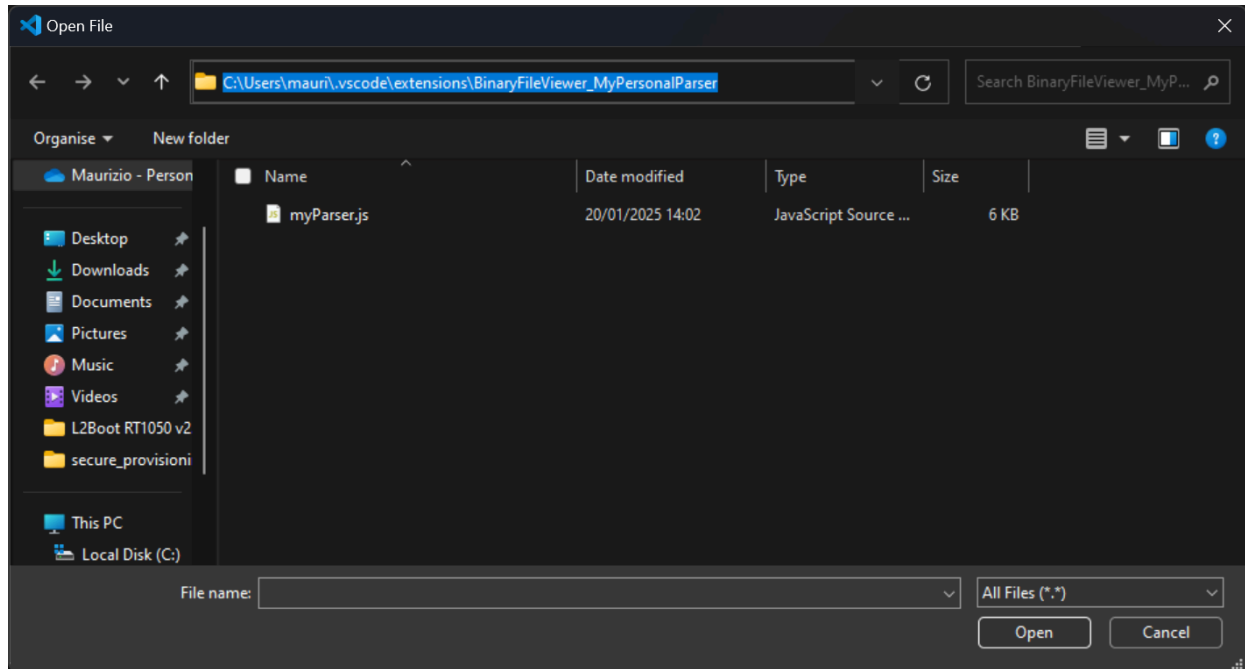
## Analysis of the binary via “Binary File Viewer” di VSCode

Install the following extension in VSCode:

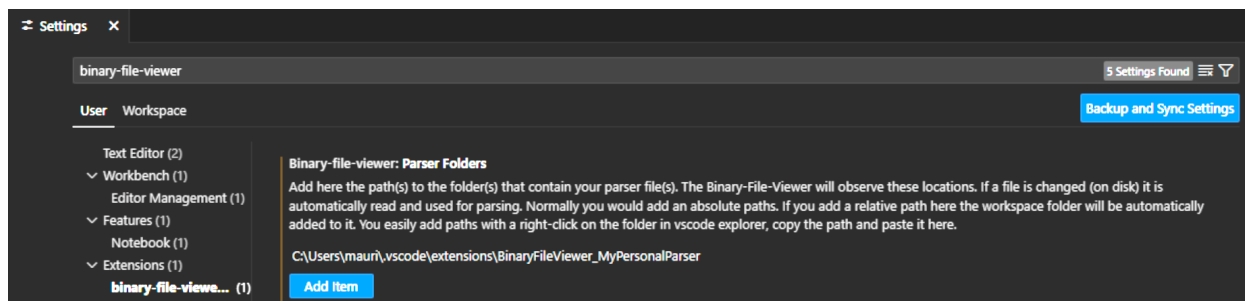


Download the custom parser (two Javascript callback functions) to decode the binary, according to the fields described in the RM: [LINK](#)

create a folder “BinaryFileViewer\_MyPersonalParser” in the corresponding local directory of your system and copy the file “myParser.js” into it, as in the following figure:



Now you need to set the path where the parser was saved.  
Go to the menu “File → Preferences → Settings” (or “CTRL + ,”) and do “Add Item” of the path:



At this point you are ready to open a .bin file:

# Usage

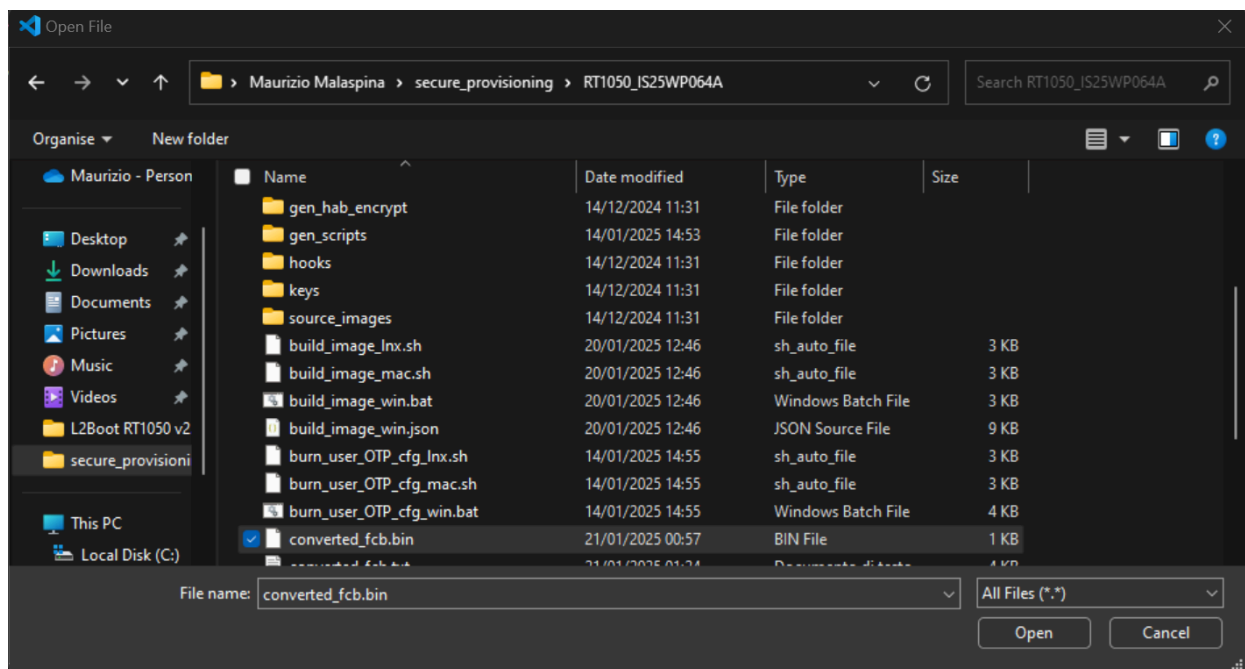
To understand how to build own parser scripts please refer to the [Help](#).

To use it:

1. In the vscode explorer right-click the binary file.
2. Choose 'Open with Binary File Viewer'.

To use the 'Binary File Viewer' as default for some file extension:

1. In the vscode explorer right-click the binary file.
2. Choose 'Open With...':



Click on "Open anyway":



The file is not displayed in the text editor because it is either binary or uses an unsupported text encoding.

Open Anyway

Select editor for 'converted\_fcb.bin'

Text Editor Active and Default

Built-in

Binary File Viewer

Binary File Viewer

Configure default editor for '\*.bin'...

# nphbasep1 # converted.kb.in X			
C:\Users>maui>secure_provisioning>471001525W0644> # converted.kb.in			
Reload			
Offset	Size	Name	Description
0	4	tag	Flash
4	4	version	FlexSPI Configuration Block
8	4	Reserved	V.1.4.0 ->X ASCII: 'V', Major: 1, Minor: 4, Bugfix: 0
12	4	readbackctrlbits	Reserved field
13	4	csHoldTime	0 - Internal loopback, 1 - loopback from DQS pad, 3 - Flash provided DQS
14	4	csSetupTime	Serial Flash CS Hold Time
15	4	columnAddressWidth	Serial Flash CS Setup Time
16	4	deviceModeCfgEnable	Column Address Width: 3 - HyperFlash, 12/13 - Serial NAND, 0 - Others
17	4	Reserved	0 - Disabled, 1 - Enabled
18	4	waitTimeForCommands	Reserved field
19	4	deviceModeSeq	Wait time for all configuration commands, unit 100ns
20	4	deviceModeArg	Sequence for device mode configuration
24	4	deviceModeArg	Device Mode argument, effective only when deviceModeCfgEnable = 1
28	4	configCmdEnable	0 - Disabled, 1 - Enabled
29	4	Reserved	Reserved field
32	12	configCmdSeqs	Sequences for Config Command, allow 3 separate configuration commands
44	4	Reserved	Reserved field
48	12	cfgCmdArgs	Arguments for each separate configuration command sequence
60	4	Reserved	Reserved field
64	4	controllerMiscOption	Reserved field
68	4	deviceType	Miscellaneous options for controller: Bit0 - differential clock enable Bit1 - CK2 enable, must set to 0 In this silicon Bit2 - ParallelModeEnable, must set to 0 for this silicon Bit3 - serialAddressableEnable Bit4 - Safe Configuration Frequency enable set to 1 for the devices that support DOR Read Instructions Bit5 - Pad Setting Override Enable Bit6 - DOR Mode Enable, set to 1 for device supports DOR read command
69	4	flashPadType	1 - Serial NOR, 2 - Serial NAND
70	4	serialClkFreq	1 - Single pad, 2 - Dual pads, 4 - Quad pads, 8 - Octal pads
71	4	lutInitSeqEnable	1 - 30 MHz, 2 - 50 MHz, 3 - 60 MHz, 4 - 75 MHz, 5 - 80 MHz, 6 - 100 MHz, 7 - 133 MHz, 8 - 160 MHz, Other values - 30 MHz
72	4	Reserved	0 - Use pre-defined LUT sequence index and number, 1 - Use LUT sequence parameters provided in this block
80	4	flashBitSize	Reserved field
84	4	flashBitSize	Actual size for SPI NOR / Size * 2 for SPI NAND
88	4	flashBitSize	Same as above
92	4	flashBitSize	Same as above
96	4	csPadSettingOverride	Same as above
100	4	csPadSettingOverride	Set to 0 if not supported
104	4	dataPadSettingOverride	Set to 0 if not supported
108	4	dataPadSettingOverride	Set to 0 if not supported
112	4	timeoutInfo	Set to 0 if not supported
116	4	commandInterval	Maximum wait time during read busy status
120	4	dataValidTime	Unit: ns, used for SPI NAND only at high frequency
124	4	busyOffset	Time from clock edge to data valid edge, unit ns
128	4	busyBitPolarity	Busy bit offset, range: 0-31
128	256	lookupTable	0 - busy bit is 1 if device is busy, 1 - busy bit is 0 if device is busy
384	40	lutCustomSeq	Lookup Table
432	4	Reserved	Customized LUT sequence
432	4	Reserved	Reserved for future use

This is the official help that explains how the parser works: [LINK](#)