

Console Tool User Guide

In RTKAutoSwitchTool_VA_2.1.6.20.0, there are several parameters in the picture below to set when making image file. So they are also available in Console Tool for Windows and Linux.

Please Select Firmware Binary Path and Input Self-Defined Binary Version

Firmware Path: SELECT

Self-defined Binary Version: OK

*Self-defined version number will be stored in address: 0x1B004K

Generate Binfile for Programmer: ☐

Power on Send WUP: ☐ ⁶ ☐ ⁷ Calibration Selection: ☐

Attach Hash Value ☐

Generate Image with OTP configuration ☐

Linux Testing Environment:

- 1) GLIBC 2.23
- 2) gcc 5.4.0 20160609
- 3) Ubuntu 16.04
- 4) libusb-1.0.23

Batch files are provided to make image file. You can use **LinuxConsole.sh** for Linux, and **WinConsole.bat** for Windows.

1.LinuxConsole.sh

```
1  #!/bin/bash
2
3  BulkTrans=true
4  InputJson=INPUTJSON
5  Firmware_Path=Firmware/RTL906X-7XA_Patch-Firmware-Image_v4.9.4.290721.bin
6  OutputFilePath=Image
7  Self_definedBinaryVersion=0x0
8  CustomizedNumber=0x0
9  Generate_Image_with_OTP_configuration=False
10 Generate_Binfile_for_Programmer=False
11 Power_on_Send_Wup_p6=False
12 Power_on_Send_Wup_p7=False
13 Attach_Hash_Value=False
14 Calibration_Selection=False
15 Califile=Califile
16
17 ./RTL904XToolV2 $BulkTrans \
18                 $InputJson \
19                 $Firmware_Path \
20                 $OutputFilePath \
21                 $Self_definedBinaryVersion \
22                 $CustomizedNumber \
23                 $Generate_Image_with_OTP_configuration \
24                 $Generate_Binfile_for_Programmer \
25                 $Power_on_Send_Wup_p6 \
26                 $Power_on_Send_Wup_p7 \
27                 $Attach_Hash_Value \
28                 $Calibration_Selection \
29                 $Califile
30
```

Parameters in red box is necessary to run this console tool, and those in green box are optional.

Example1:

```
#!/bin/bash

BulkTrans=true
InputJson=INPUTJSON

./RTL904XToolV2 $BulkTrans \
                 $InputJson
```

Example2:

```
#!/bin/bash

BulkTrans=true
InputJson=INPUTJSON
Firmware_Path=Firmware/RTL906X-7XA_Patch-Firmware-Image_v4.9.4.290721.bin
OutputFilePath=Image
Self_definedBinaryVersion=0x0
CustomizedNumber=0x0
Generate_Image_with_OTP_configuration=False

./RTL904XToolV2 $BulkTrans \
                 $InputJson \
                 $Firmware_Path \
                 $OutputFilePath \
                 $Self_definedBinaryVersion \
                 $CustomizedNumber \
                 $Generate_Image_with_OTP_configuration
```

BulkTrans: how many json files to load at a time, true: several files in a folder, false: only one

InputJson: if BulkTrans = true, InputJson = file path of the folder where json files to load;

if BulkTrans = false, InputJson = file path of the json to set.

Firmware_Path: File path for the firmware, normally no need to change

OutputFilePath: if BulkTrans = true, you can choose this file path for output bin files, which default value is '/Image'; if BulkTrans = false, the output bin file is 'fw_config.bin' in exe directory.

Self_definedBinaryVersion: Version number for this .bin file, hexadecimal, 4byte

CustomizedNumber: Customized number (binfile offset: 0x40050~0x40057), hexadecimal, 8byte

Generate_Image_with_OTP_configuration: True, False

Generate_Binfile_for_Programmer: True, False

Power_on_Send_Wup_p6: True, False

Power_on_Send_Wup_p7: True, False

Attach_Hash_Value: True, False

Calibration_Selection: True, False

Califile: Flash tool calibration folder, which can be set in Update Image dialog

2.WinConsole.bat

```
1 @echo off
2 rem Cfglen:True: 4bytes, False: 2bytes
3
4 set BulkTrans=false
5 set InputJson=INPUTJSON
6 set Firmware_Path=Firmware/RTL906X-7XA_Patch-Firmware-Image_v4.9.4.290721.bin
7 set OutputFilePath=Image
8 set Self_definedBinaryVersion=0x0
9 set CustomizedNumber=0x0
10 set Generate_Image_with_OTP_configuration=False
11 set Generate_Binfile_for_Programmer=False
12 set Power_on_Send_Wup_p6=False
13 set Power_on_Send_Wup_p7=False
14 set Attach_Hash_Value=False
15 set Calibration_Selection=False
16 set Califile=Califile
17
18 start RTL904XToolV2.exe %BulkTrans% ^
19                        %InputJson% ^
20                        %Firmware_Path% ^
21                        %OutputFilePath% ^
22                        %Self_definedBinaryVersion% ^
23                        %CustomizedNumber% ^
24                        %Generate_Image_with_OTP_configuration% ^
25                        %Generate_Binfile_for_Programmer% ^
26                        %Power_on_Send_Wup_p6% ^
27                        %Power_on_Send_Wup_p7% ^
28                        %Attach_Hash_Value% ^
29                        %Calibration_Selection% ^
30                        %Califile%
31
32
33 pause
```

Similar to LinuxConsole.sh.

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