



1. Technical Specifications

Particular	Remarks
Key Matrix For Flashing	N/A
Chipset	MT6582M
Android Version	android 5.0
Frequency	Quad 1.3GHz
Network Mode	GSM: 900/1800/850/1900; WCDMA : 900/2100
ROM	8GB
RAM	1GB
Internal SD Card memory	NO
Expandable Memory	32GB

2. CAUTIONS

- I. Flashing & Servicing must be undertaken by qualified personnel only.
- II. Ensure all work is carried out at an anti-static workstation and that an anti-static wrist strap is worn.
- III. Use only approved Tools & components as specified in the parts list.
- IV. Ensure all components, modules, screws, and insulators are correctly re-fitted after servicing and alignment
- V. Ensure all cables and wires are repositioned correctly if Handset disassembled
- VI. Electrostatic discharge can easily damage the sensitive components of electronic products. Therefore, Service Centre must adhere the precautions which mentioned above.

3. WriteStation User Guide

1) . Environment Requirement

1.1. Hardware environment

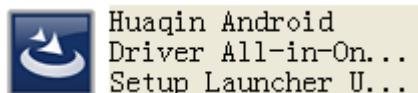
- 1.1.1. Computer, CPU 1.7GHz or above, 512M ram or above
- 1.1.2. Monitor, the resolution is 1024×768 or above
- 1.1.3. Stabilized D.C. source (4.0V/2A) or full charged battery of mobile phone
- 1.1.4. Mobile phone
- 1.1.5. HQ WriteStation Tool uses Version: **"HQ_WriteStation_V2.1.29_141208"**
- 1.1.6. HQ Framework uses Version: **"HQ_Framework_v3.2_150123"**
- 1.1.7. USB driver uses Version: **"Huaqin Android Driver All-in-One"**
- 1.1.8. USB driver installation

Note:

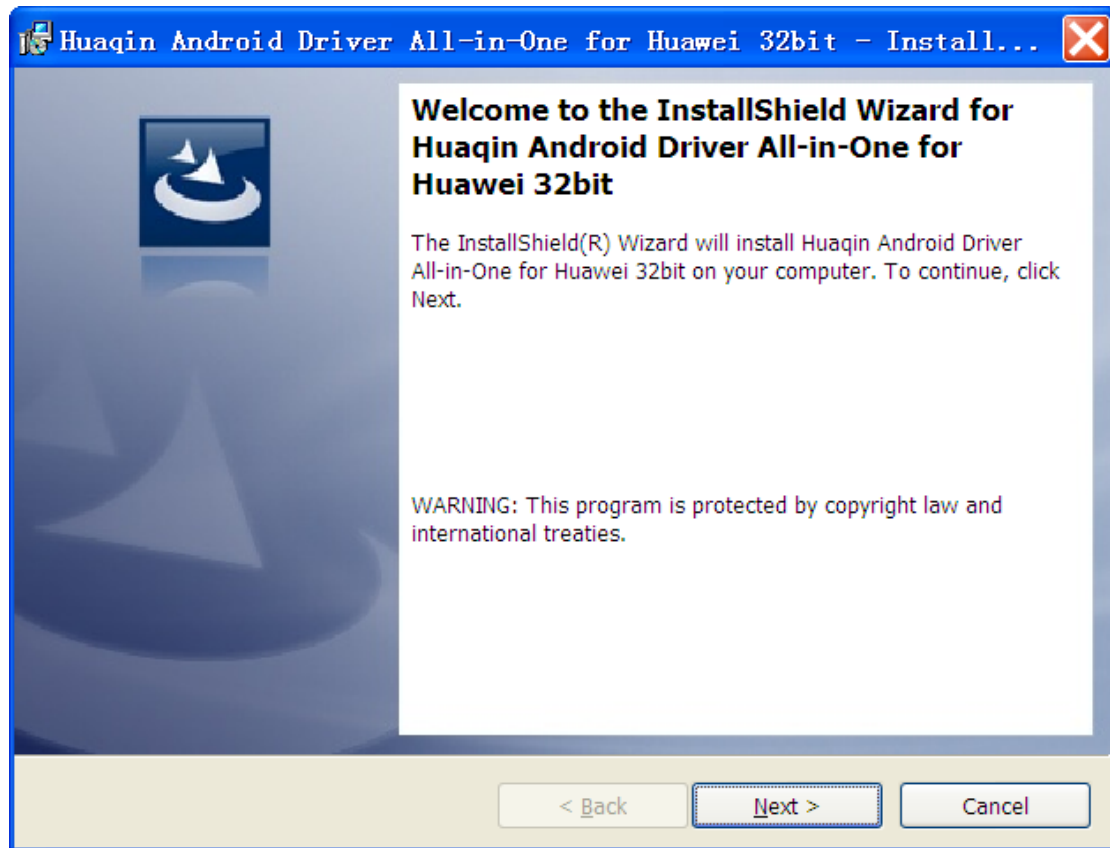
Usually, you should upgrade your target via USB communication mode, so 32 bit system user should install "Huaqin Android Driver All-in-One 32 bit V1.00.exe" or above USB driver; 64 bit system user should install "Huaqin Android Driver All-in-One 64 bit V1.00.exe" or above USB driver.

Huaqin Android Driver All-in-One 32 bit V1.00.exe driver install (Huaqin Android Driver All-in-One 64 bit V1.00.exe driver install method same as this)

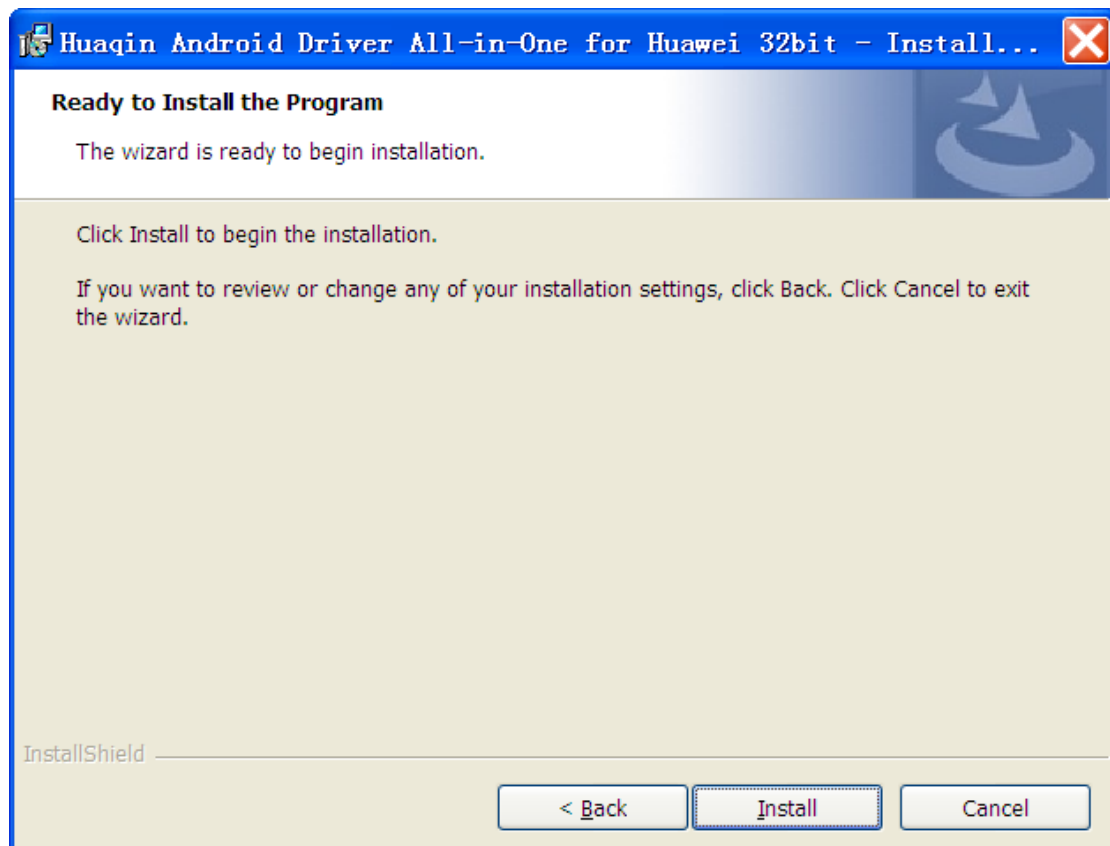
a. Please double click below picture to install driver.



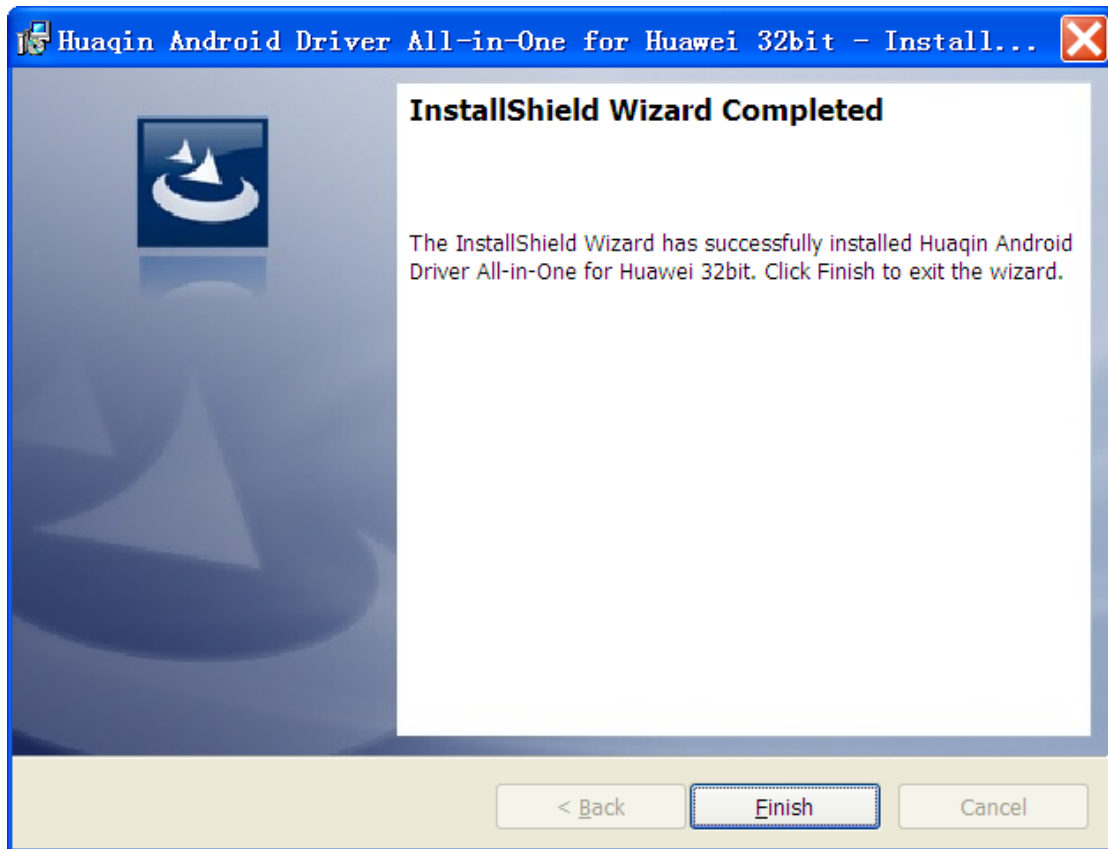
b. Please click "next" button in the below picture.



c. Click "Install" button in the below picture to install driver.



d. Click "Finish" button in the below picture to finish driver installation.



1.2. Software environment

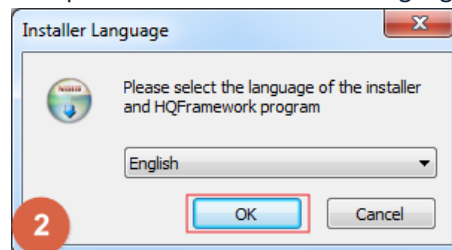
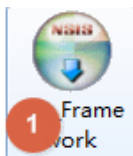
1.2.1. OS: Window2000, XP, Windows7

1.2.2. WriteStation program and HQFramework

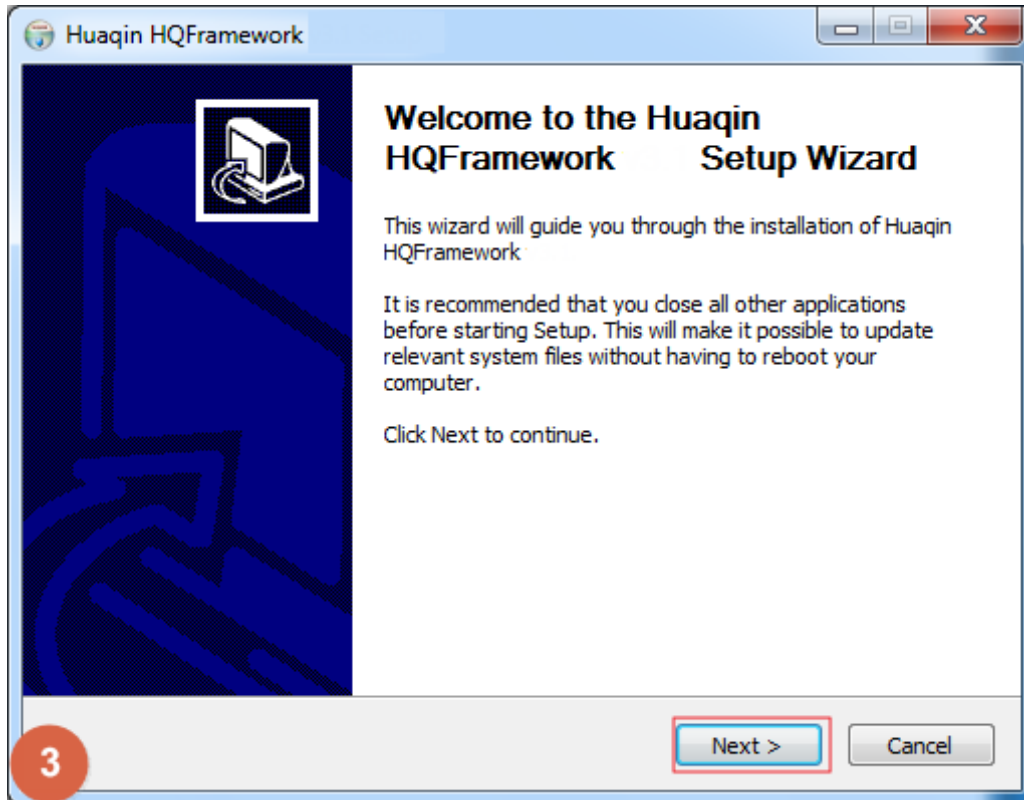
1.2.2.1

(a) First you should install the HQFramework on your computer. Unzip the.rar file below and you will get a .exe file you should install it

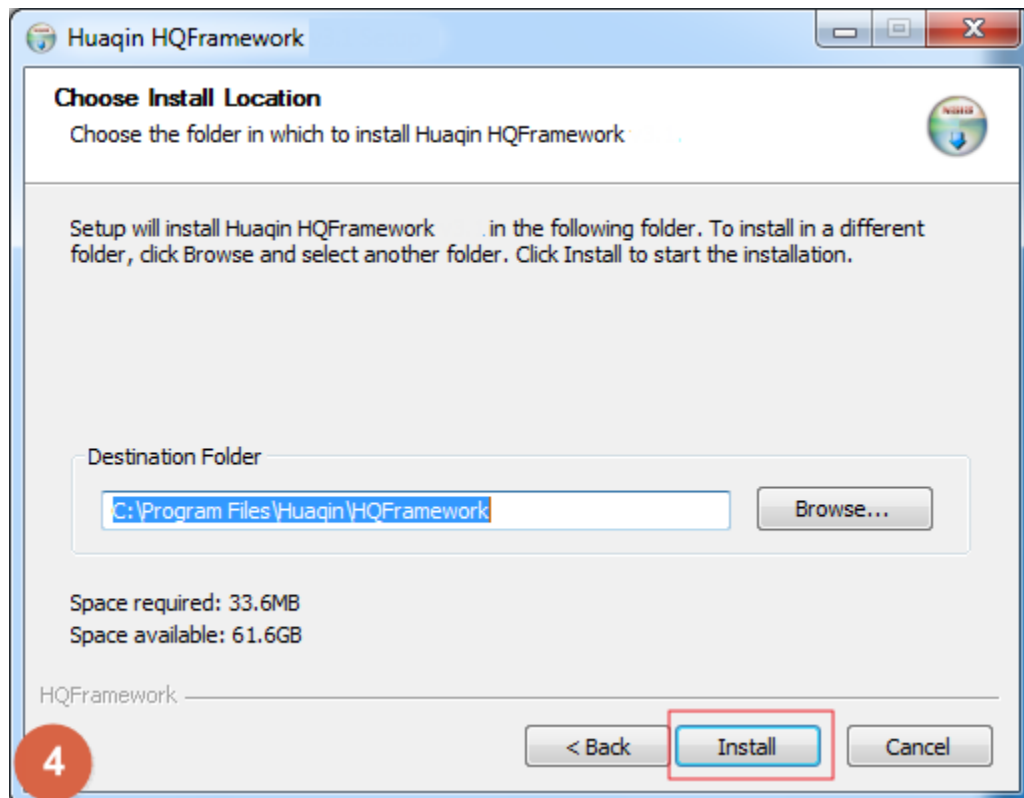
(b) Then you will get a dialog as blow, choose the second item in drop down list to choose the Language of English,

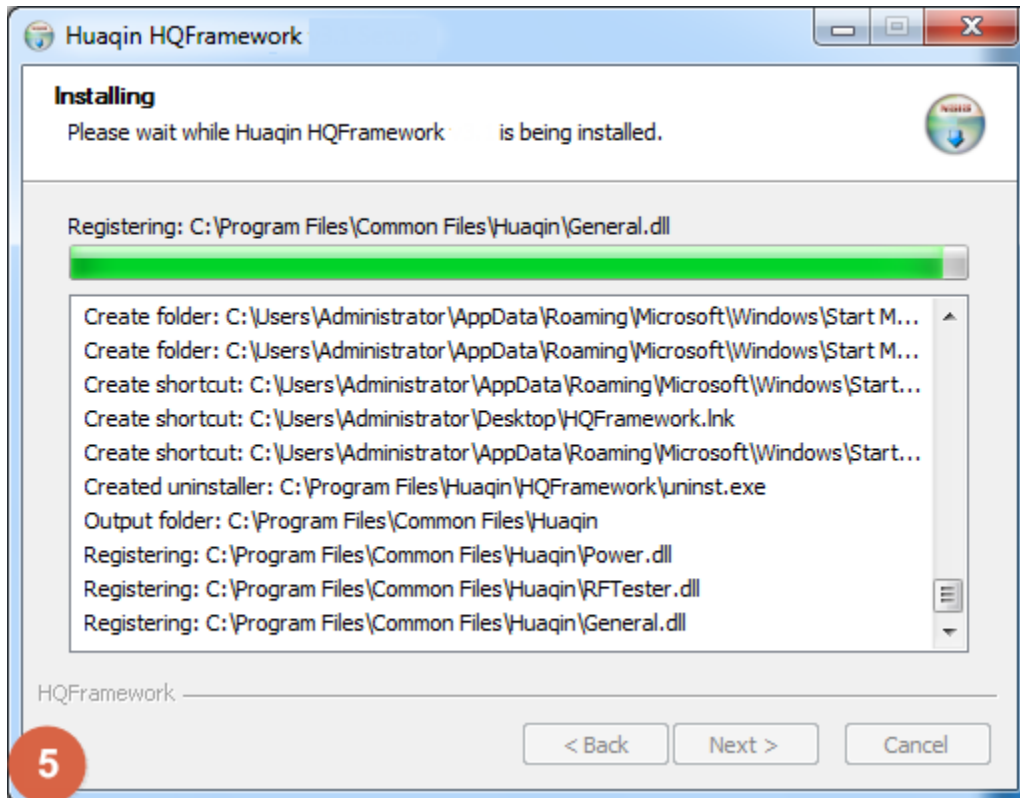


(c) Click "ok" you will get the next step:

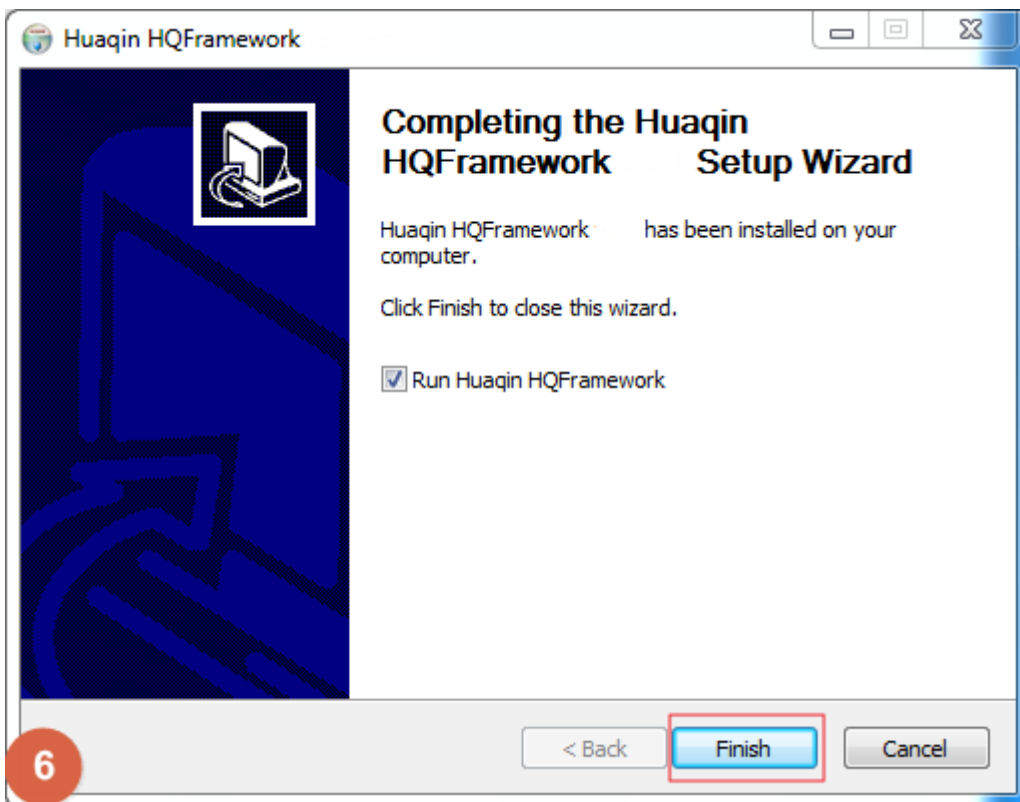


(d) Click next get Dialog below. Click the install button and the software will install on your computer.

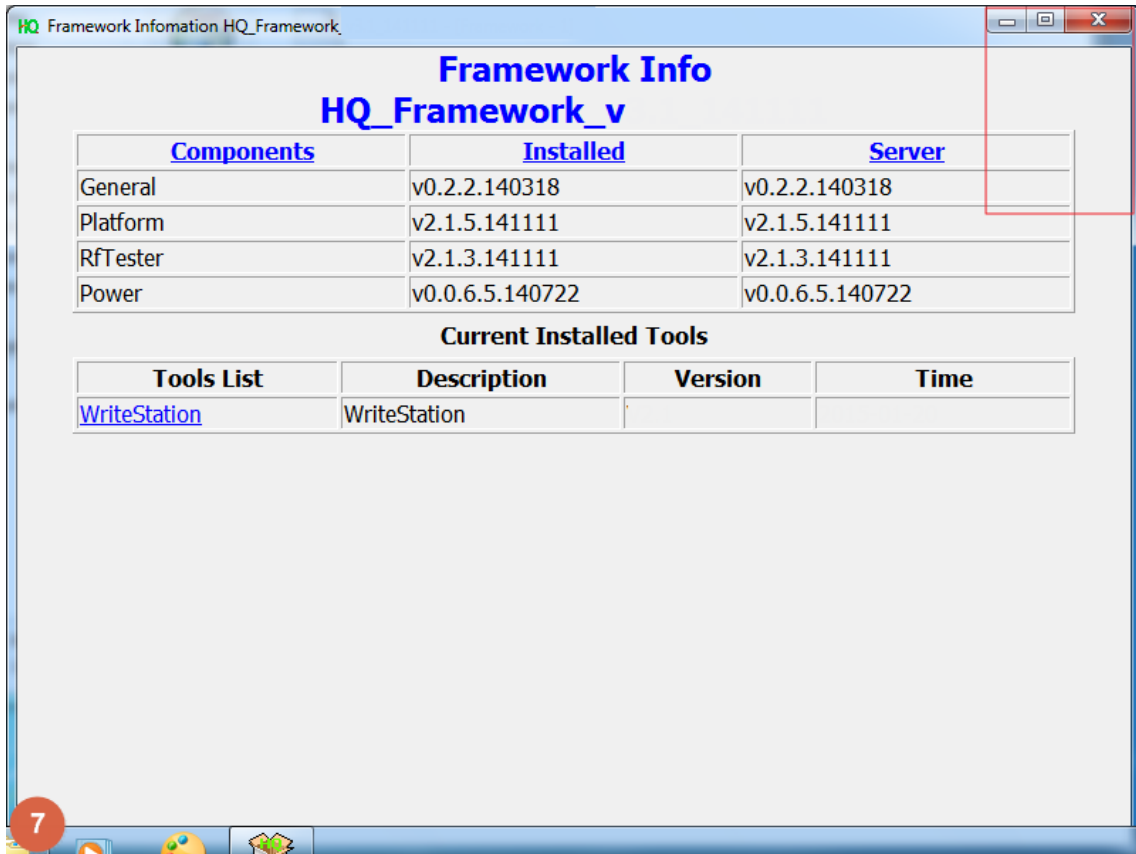




(e) Click finish and a dialog like Dialog 2 will appear that means you have installed the software successfully.



(Dialog1)

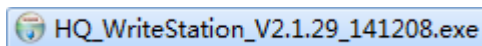


(Dialog2)

(f) Your desktop will appear a new icon like this:



1.2.2.2 Install Writestation TOOL:



After install the software successfully, and your desktop will appear a new icon like this:

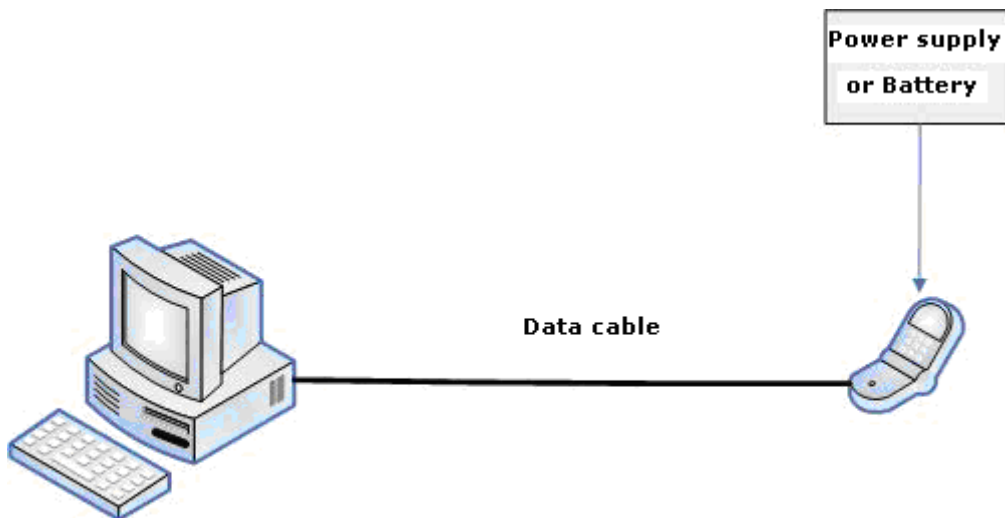


1.3. Others

- 1.3.1. Power cable
- 1.3.2. USB data cable

1.3.3. USB Hub when needed. Please note that USB Hub should be powered.

2): Connection



3): Setup

2.1. Driver should be installed first, "Huaqin Android Driver All-in-One" or above should be installed if USB is chosen as communication mode, and Driver - USB VCOM Driver (binary) should also be installed if your handset is smart phone.

2.2. HQFramework should be installed before WriteStation tool was installed. Please keep default settings while installing.

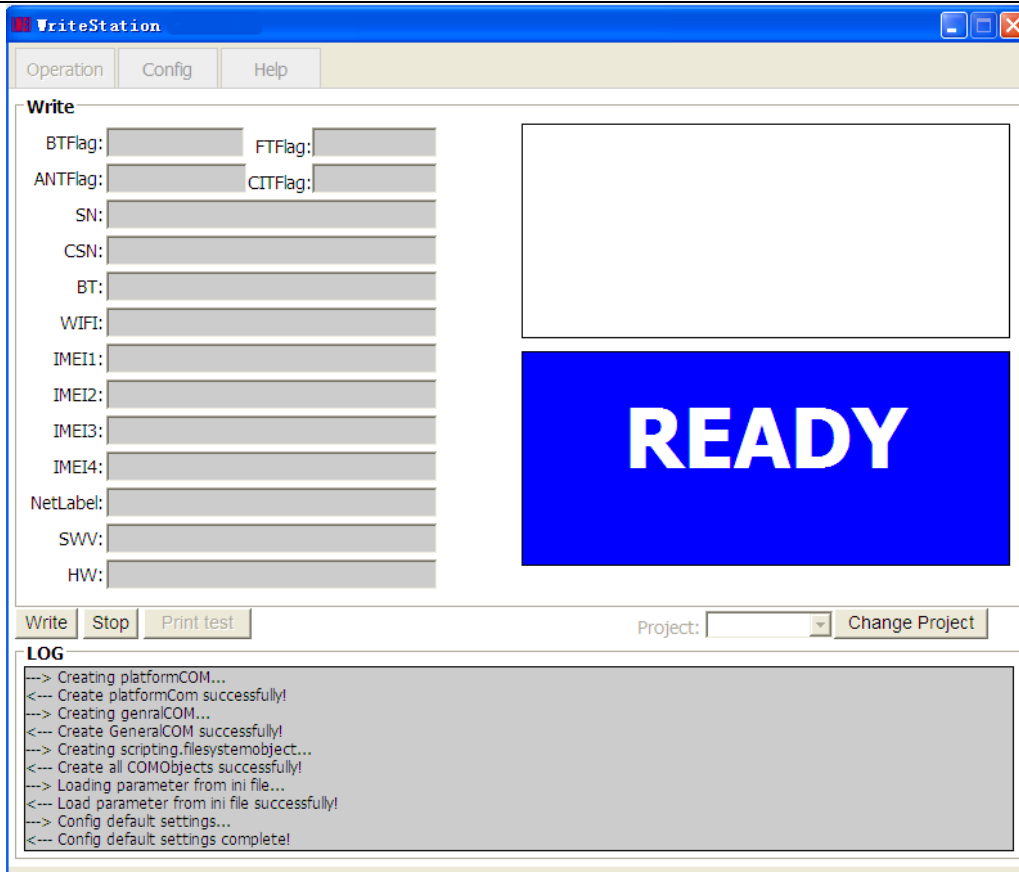
2.3. At last, WriteStation tool should be installed, and please keep default settings while installing.

4): Write

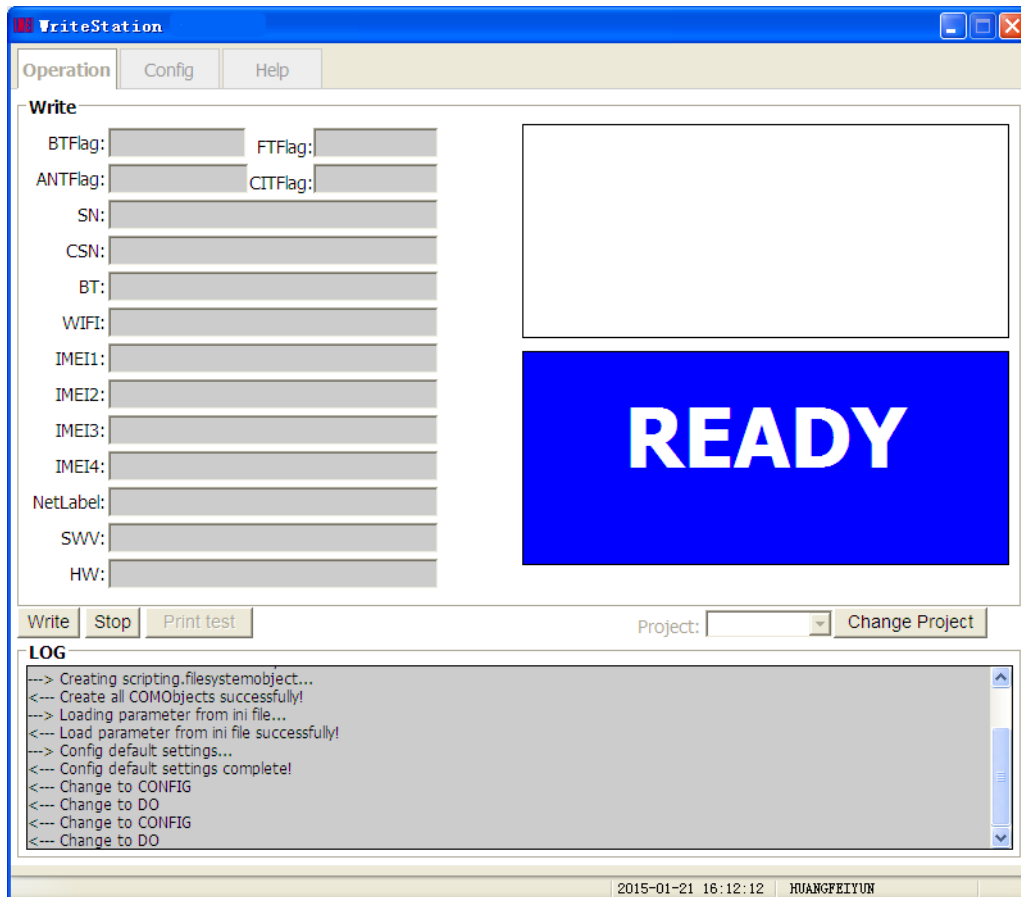
4.1. Double click the icon show as below picture to run WriteStation:

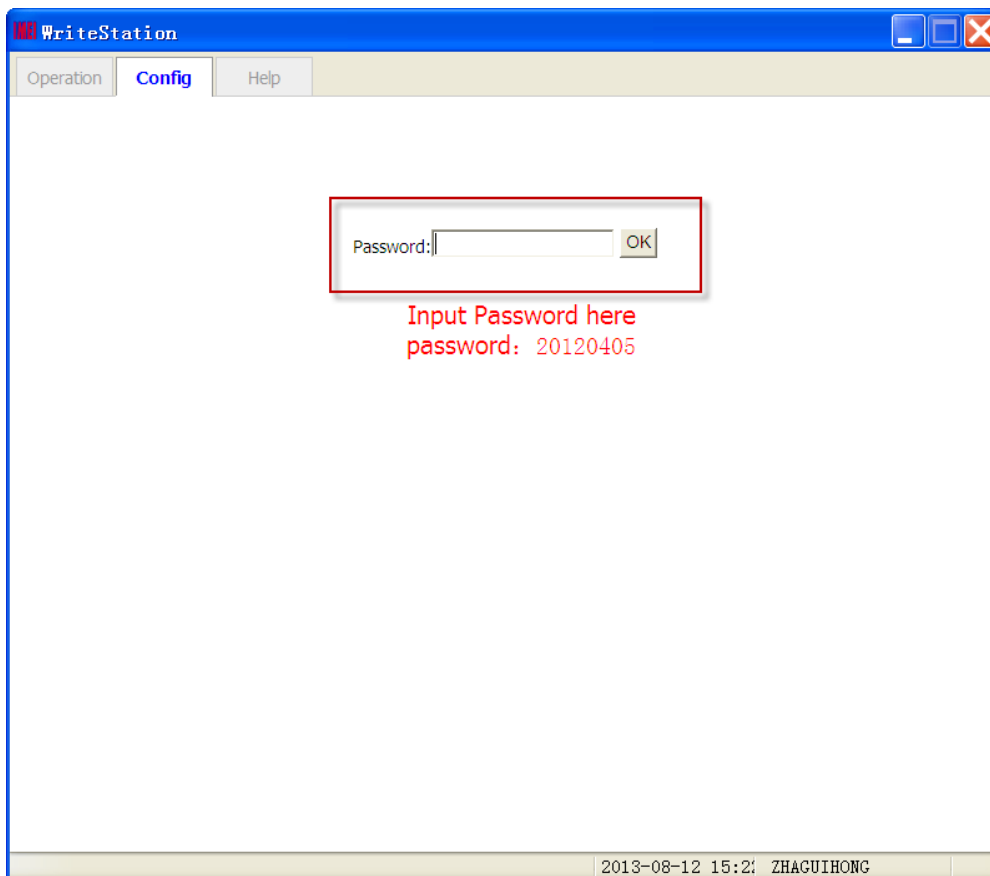


4.2. User interface of WriteStation



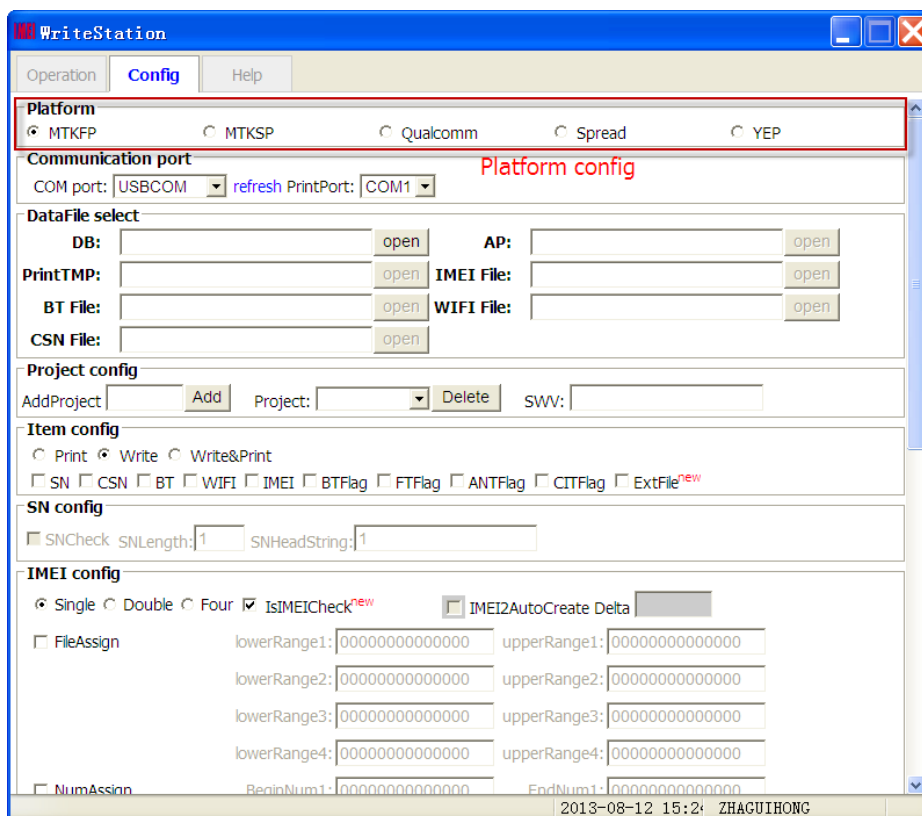
4.3. Set parameters





Password: 20120405

4.4. Set platform information



MTKFP: indicates feature phone platform of MTK,

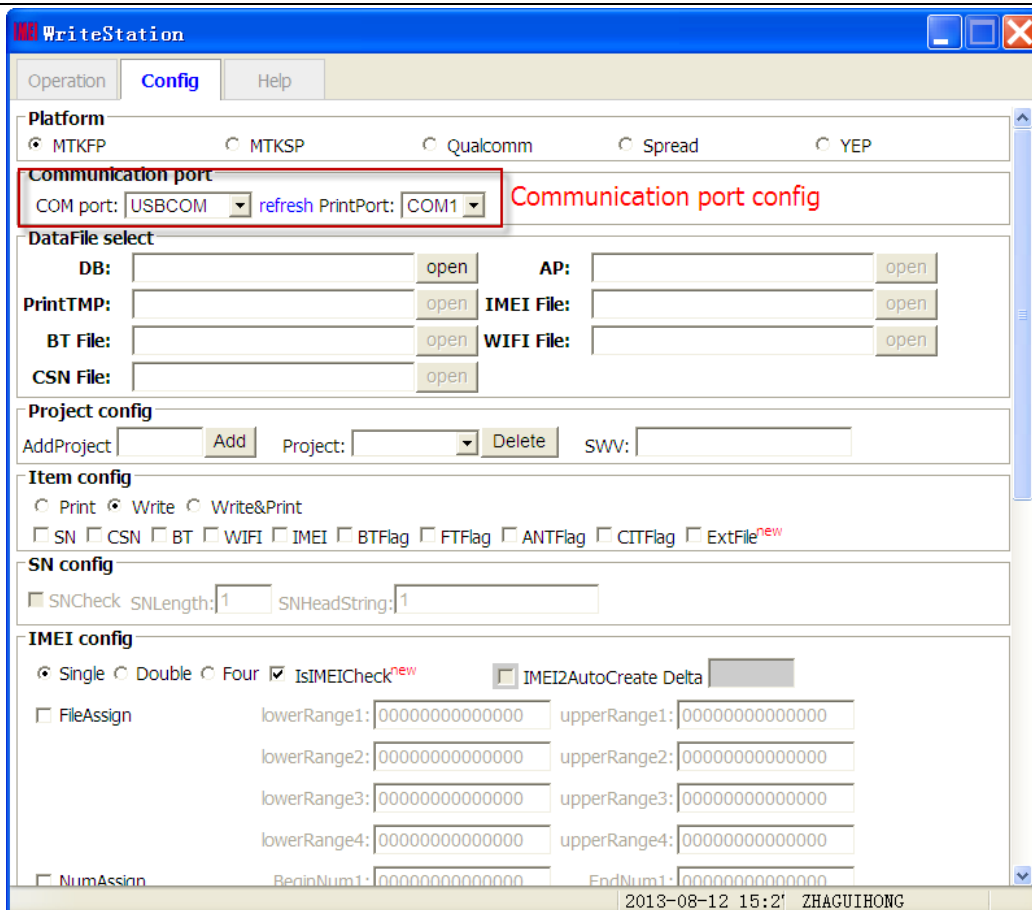
MTKSP: indicates smart phone platform of MTK

Qualcomm: indicates Qualcomm platform,

Spread: indicates Spread platform,

YEP: indicates platform for Xi'an institute;

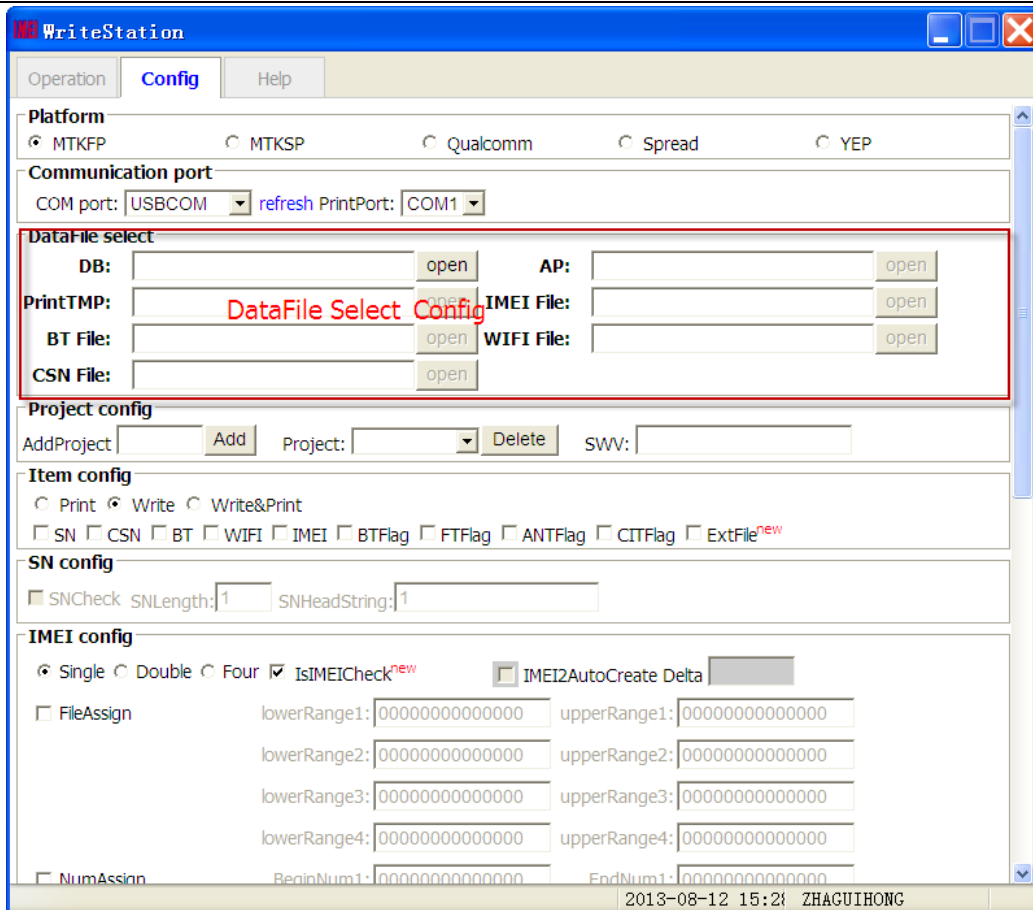
4.5. Communication port set



COM port: Set a communication port here, COM...should be set if UART is chosen as communication mode while USBCOM if USB is chosen as communication mode.

Refresh: The list of com ports will be refreshed when “refresh” is clicked.

PrintPort: User should choose a print port if user want to use print function.



DB: please choose a database file here, database file should begin with “BPLGUIInfoCustomApp” and with no suffix;

AP: please choose an AP file, AP file should begin with “APDB” and with no suffix.

PrintTMP: Please choose a print template file. The template file should as much like as supplied in help section.

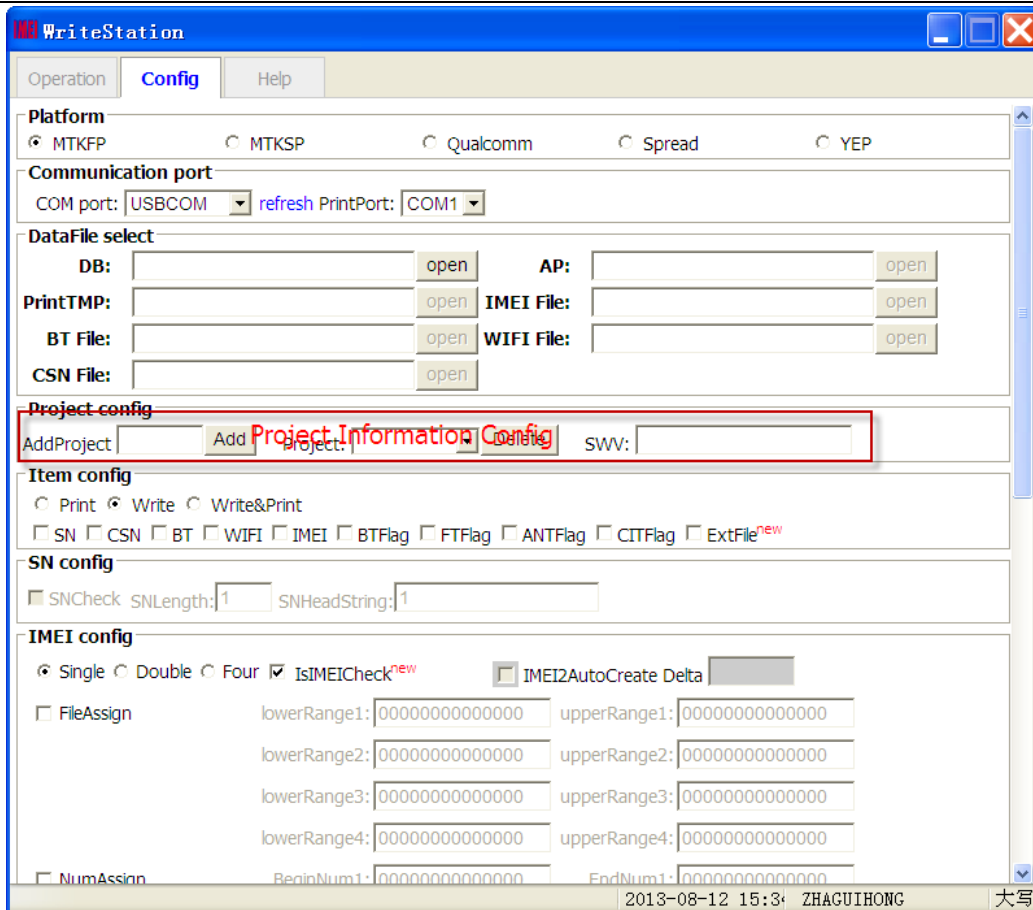
IMEI File: Please choose an excel file filled with IMEI.

BT File: Please choose an excel file filled with BT.

WIFI File: Please choose an excel file filled with WIFI.

CSN File: Please choose an excel file filled with CSN.

4.7. Project information config

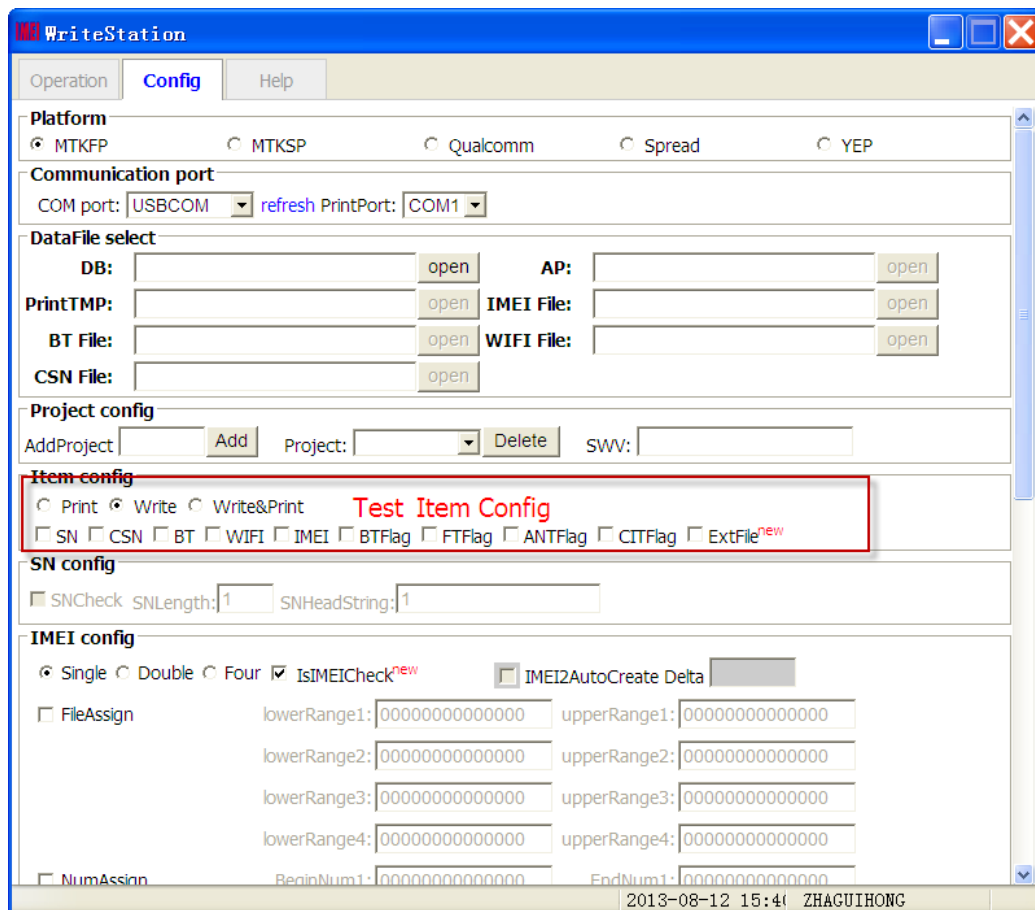


AddProject: User can add Project name to Project list by Add button;

Project: Include Project name, every Project name have different Numbers; can use Delete button to delete Project name that selected;

SWV: Please enter your software version here to check software version matching and it can be omitted.

4.8. Test Item Config



Print: print only

Write: write number only

Print&Write: write number first and then print these numbers.

SN: SN writing will be enabled if this box is checked and disabled will unchecked.

CSN: CSN writing will be enabled if this box is checked and disabled will unchecked.

BT: BT writing will be enabled if this box is checked and disabled will unchecked.

WIFI: BT writing will be enabled if this box is checked and disabled will unchecked.

IMEI: BT writing will be enabled if this box is checked and disabled will unchecked.

BTFlag: BTFlag writing or checking will be enabled if this box is checked and disabled while unchecked. Generally, if BTFlag is checked, tool will check the BTFlag.

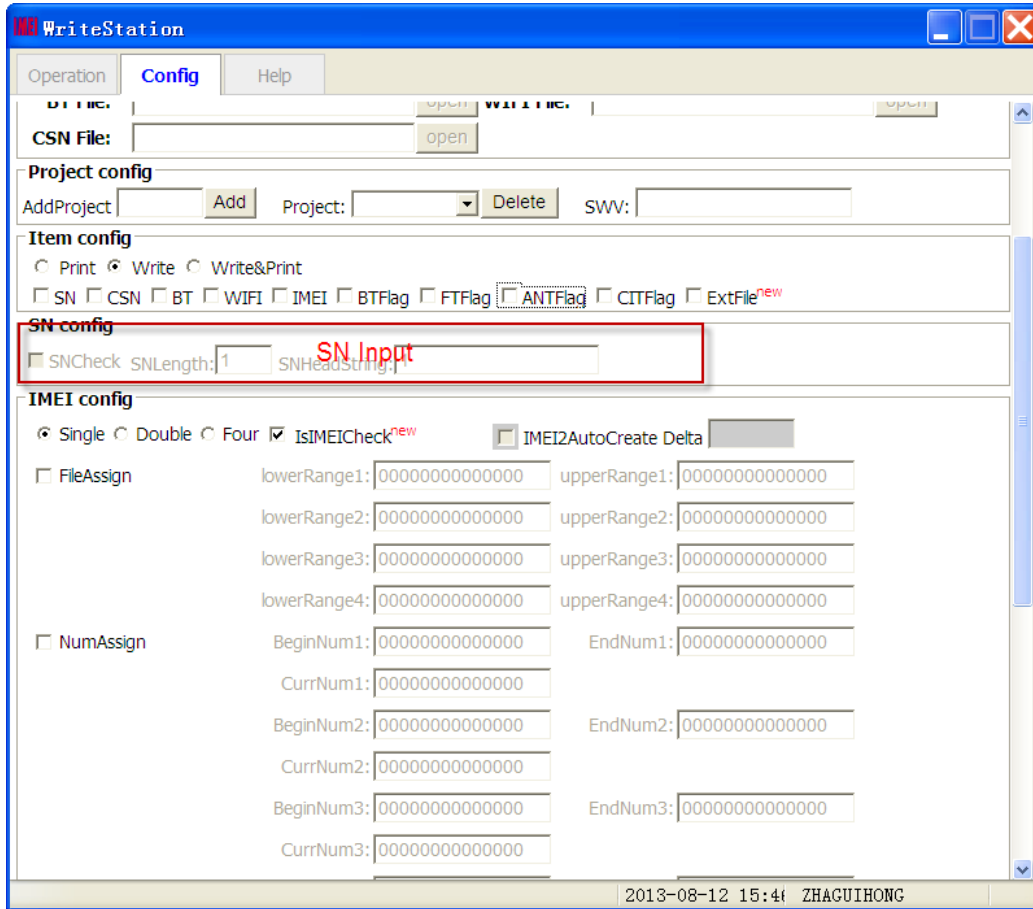
FTFlag: FTFlag writing or checking will be enabled if this box is checked and disabled while unchecked. Generally, if FTFlag is checked, tool will check the FTFlag.

ANTFlag: ANTFlag writing or checking will be enabled if this box is checked and disabled while unchecked. Generally, if ANTFlag is checked, tool will check theANTFlag.

CITFlag: CITFlag writing or checking will be enabled if this box is checked and disabled while unchecked. Generally, if CITFlag is checked, tool will check the CITFlag.

ExtFile: If this box is checked, you can write extend File, otherwise, cannot write extend File;

4.9. SN Input Config

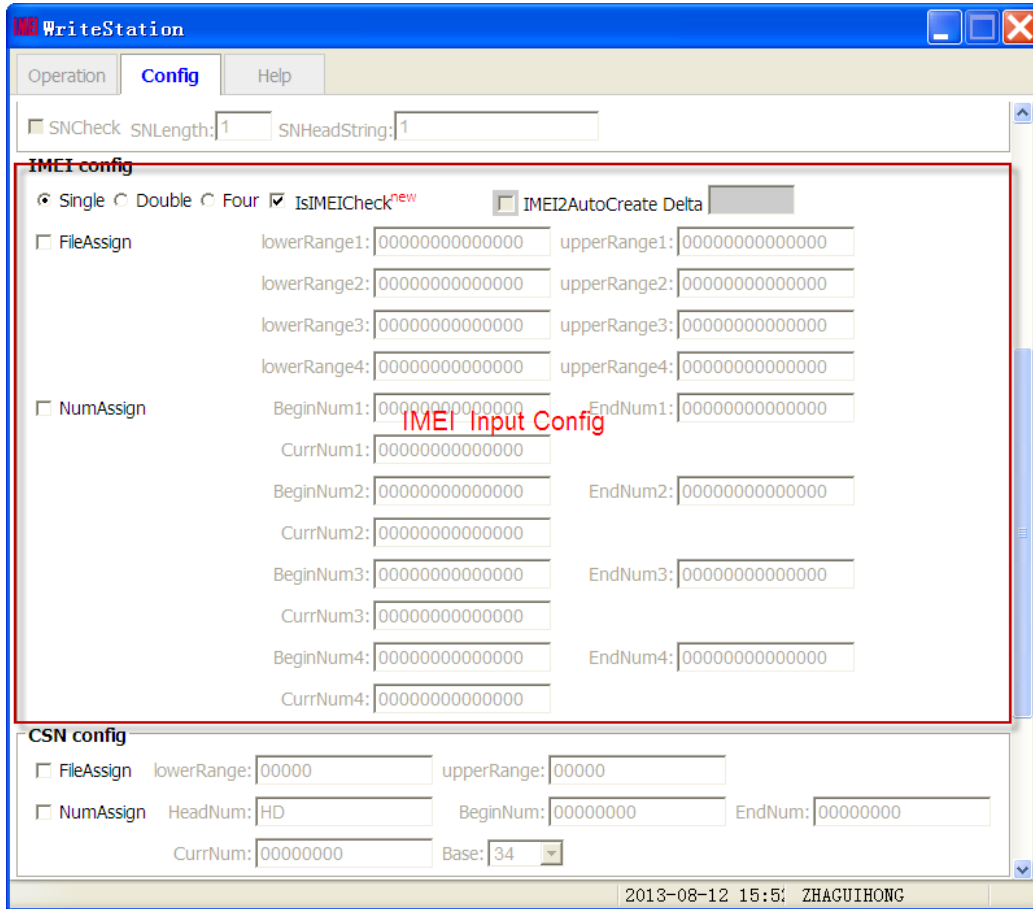


SNCheck:User can checked this box and check while write SN;

SNLength: Check SN Length;

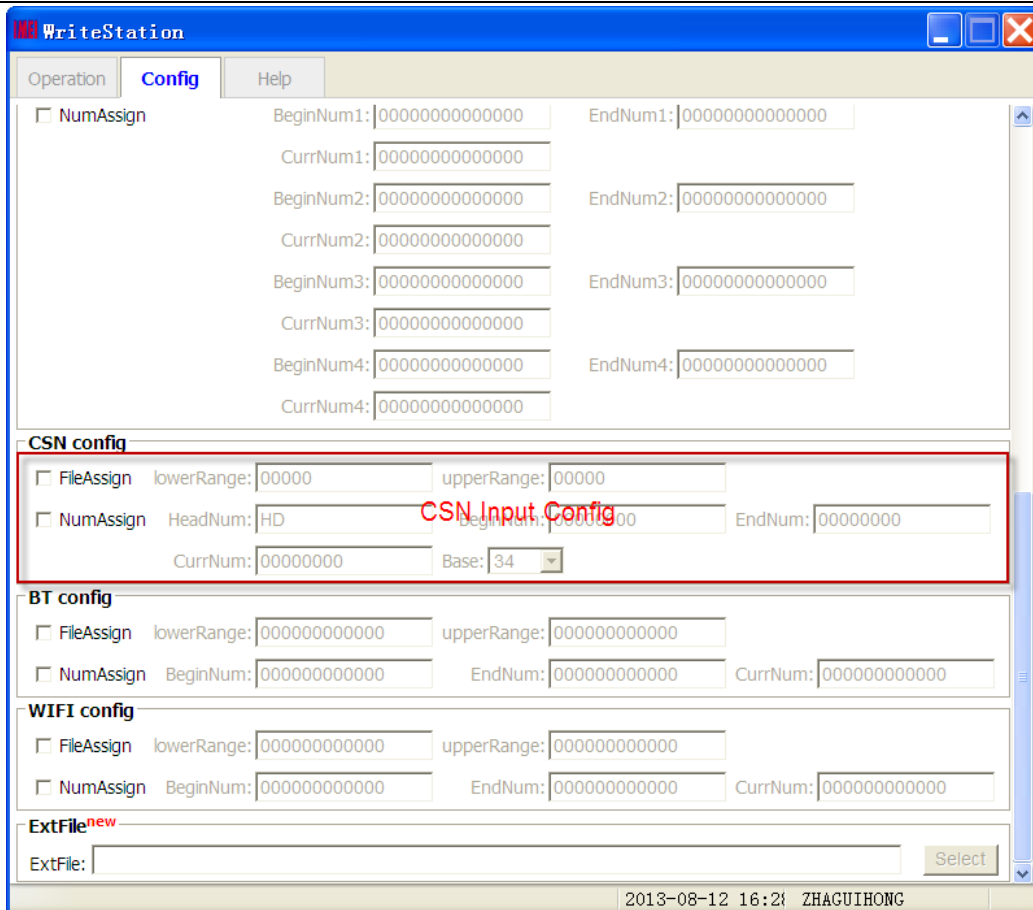
SNHeadString: check SN Head String;

4.10. SN Input Config



- Single: indicates that you want write one IMEI only into your handset;
- Double: indicates that you want to write two IMEI into your handset;
- Four: indicates that you want to write four IMEI into your handset;
- IMEI2-AutoCreate: IMEI2 will automatically counted according to IMEI1 if checked;
- D-value: the delta value between IMEI1 and IMEI2;
- FileAssign: decide if IMEI will be assigned automatically from the IMEI excel file configured at "IMEI File";
- lowerRange1 and upperRange1 : indicate the lower range and upper range of IMEI1 respectively, if the low range value less than or equal to the upper range value, the tool will check IMEI1.
- lowerRange2 and upperRange2 , lowerRange3 and upperRange3, lowerRange4 and upperRange4: the function of lowerRange1 and upperRange1 similar respectively;
- NumAssign: decide if IMEI will be assigned automatically by Number in tool interface;
- BeginNum1,EndNum1 and CurrNum1:indicate the begin number, end number and current number of IMEI1 respectively;
- BeginNum2,EndNum2 and CurrNum2, BeginNum3,EndNum3 and CurrNum3, BeginNum4,EndNum4 and CurrNum4: function of BeginNum1,EndNum1 and CurrNum1 similar respectively;

4.11 CSN Input Config



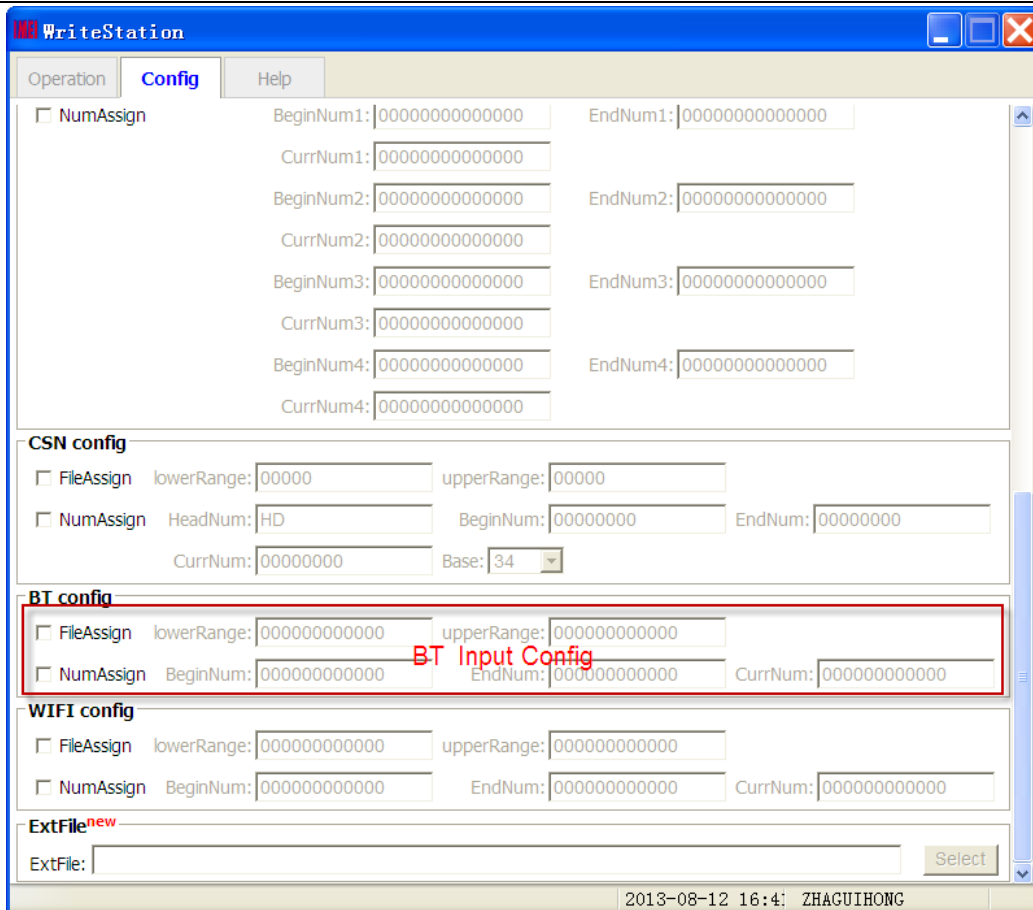
FileAssign: decide if CSN will be assigned automatically from the CSN excel file configured at “CSN File”;

LowerRange and upperRange: indicate the lower range and upper range of CSN respectively, if the low range value less than or equal to the upper range value, the tool will check CSN.

NumAssign: decide if CSN will be assigned automatically by Number in tool interface;

HeadNum,BeginNum,EndNum,CurrNum and Base: indicate the head number, the begin number, end number, current number and radix of CSN respectively;

4.12. BT Input Config



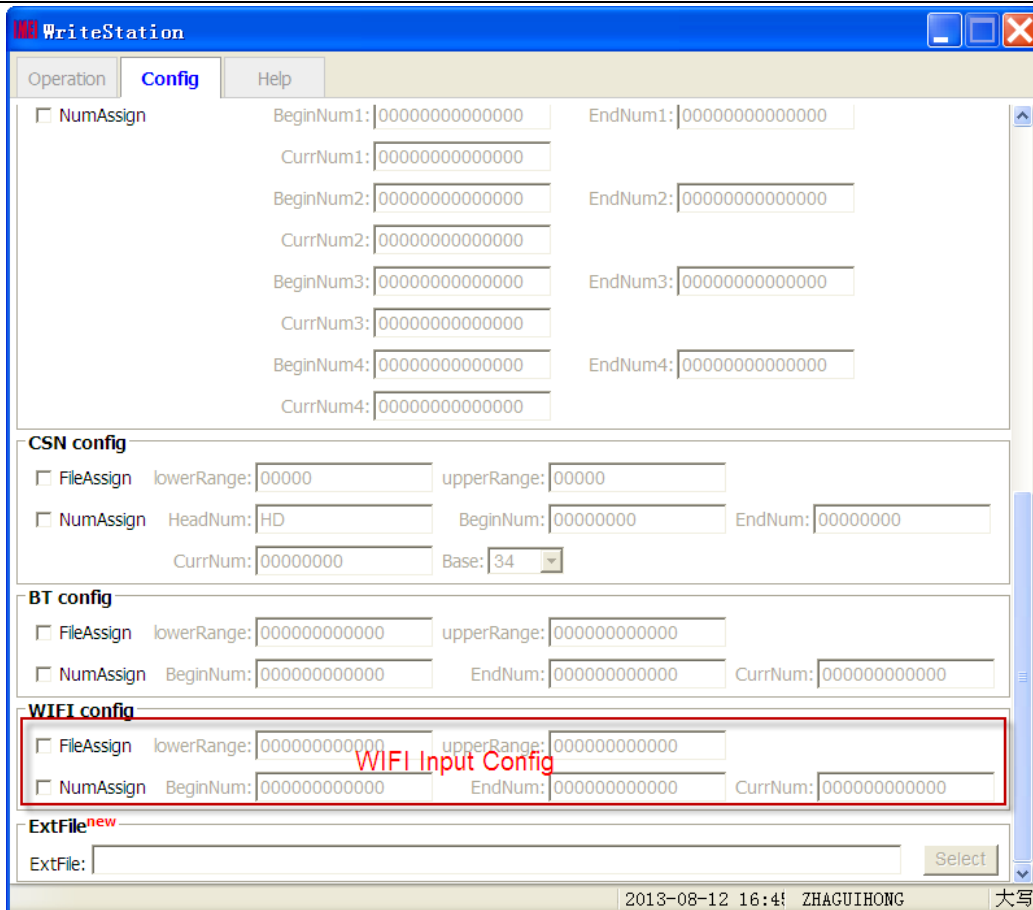
FileAssign: decide if BT will be assigned automatically from the BT excel file configured at “BT File”;

LowerRange and upperRange: indicate the lower range and upper range of BT respectively, if the low range value less than or equal to the upper range value, the tool will check BT.

NumAssign: decide if BT will be assigned automatically by Number in tool interface;

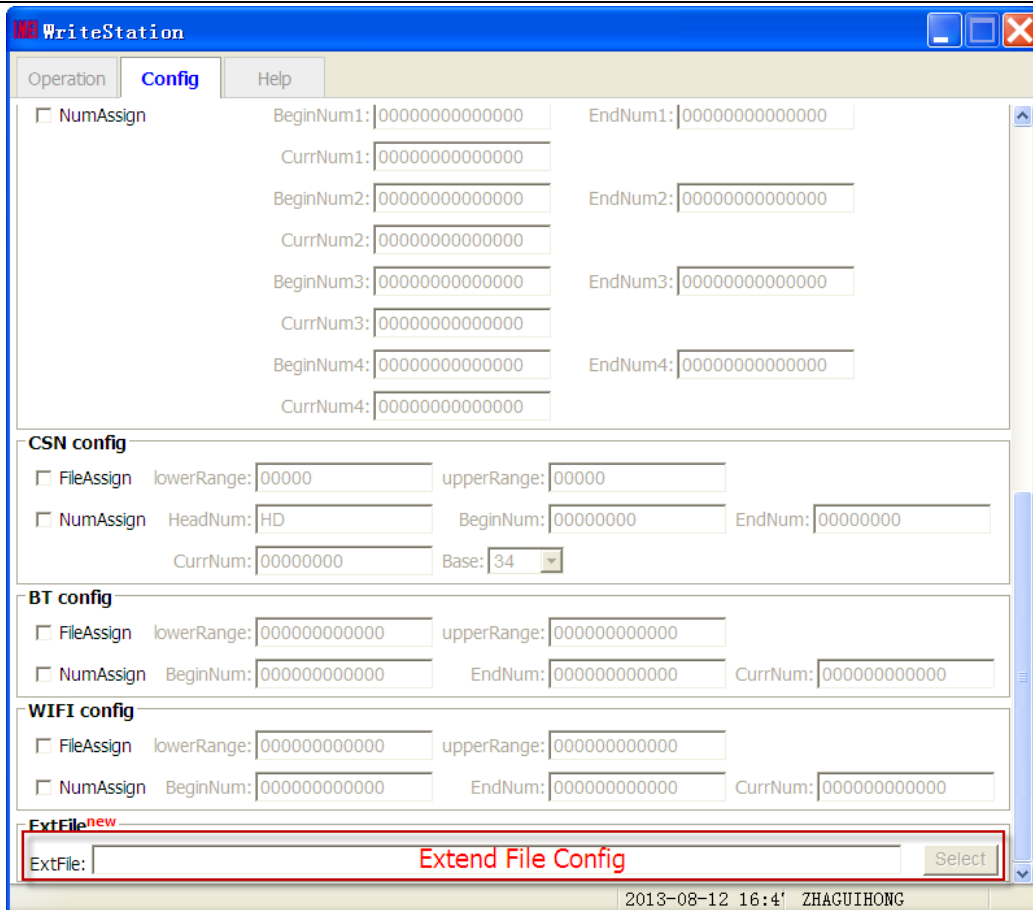
BeginNum,EndNum and CurrNum: indicate the begin number, end number, current number and radixof BT respectively;

4.13. WIFI Input Config



- FileAssign: decide if WIFI will be assigned automatically from the WIFI excel file configured at “WIFI File”;
- LowerRange and upperRange: indicate the lower range and upper range of WIFI respectively, if the low range value less than or equal to the upper range value, the tool will check WIFI。
- NumAssign: decide if WIFI will be assigned automatically by Number in tool interface;
- BeginNum,EndNum and CurrNum: indicate the begin number, end number, current number and radixof WIFI respectively;

4.14. Extend File Config



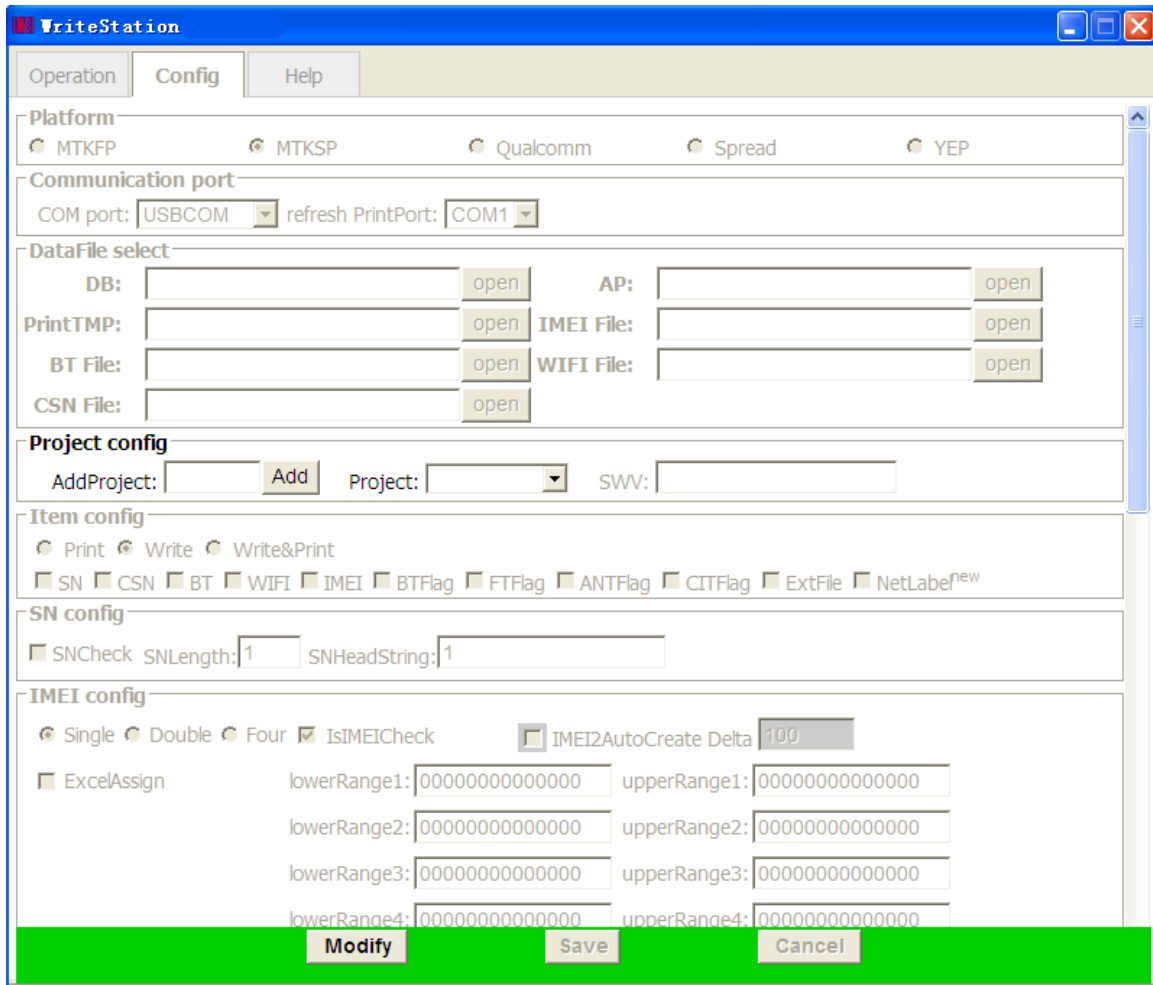
ExtFile: User can Select extend File by Select button;

5) : Write demonstration

Note: all operation should be done when phone is powered off.

A: Input SN and IMEI numbers by manual, others number like this;

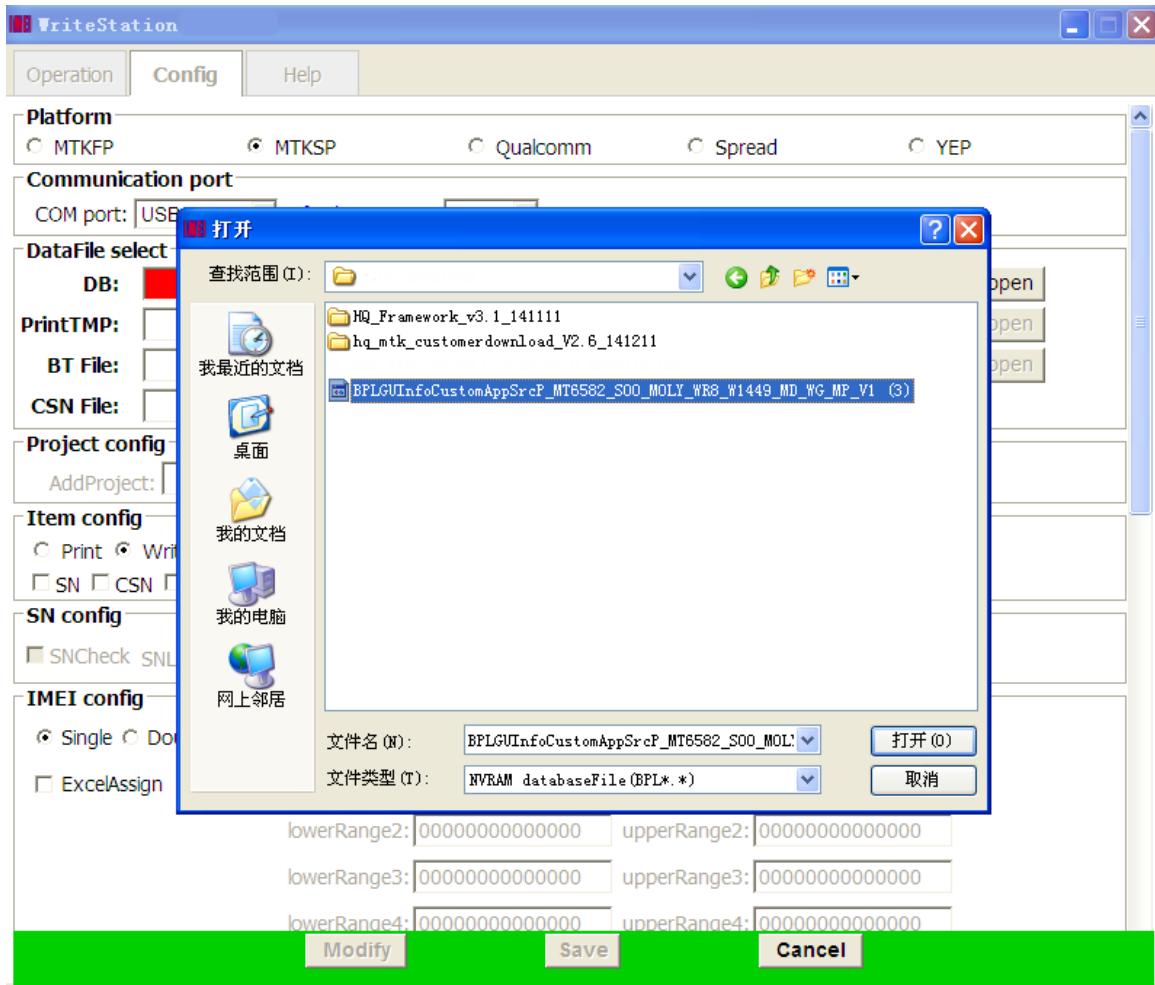
5.A.1. Config the tool

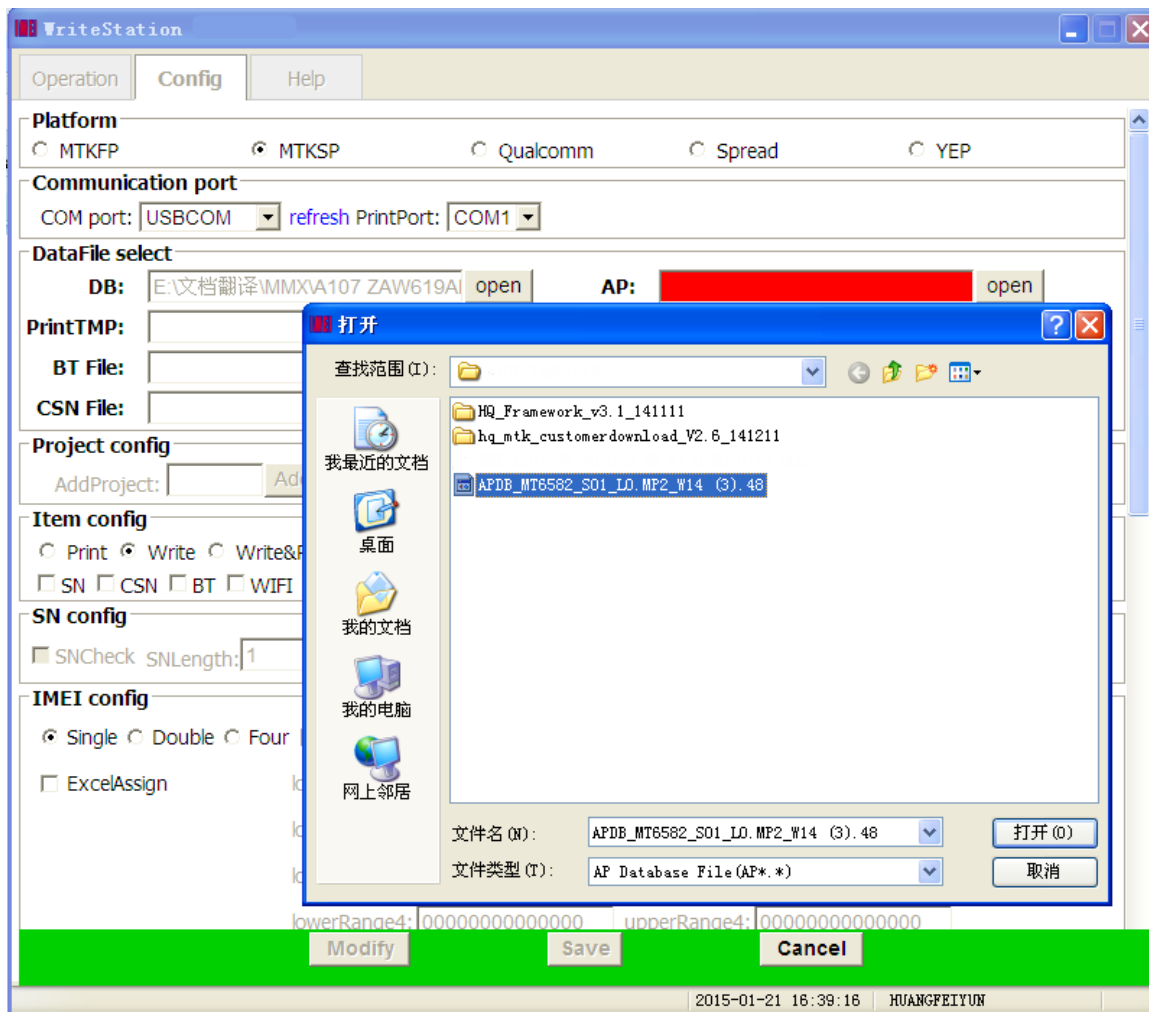


The screenshot shows the 'WriteStation' software interface with the 'Config' tab selected. The interface is organized into several sections:

- Platform:** Radio buttons for MTKFP, MTKSP (selected), Qualcomm, Spread, and YEP.
- Communication port:** COM port: USBCOM (dropdown), refresh button, PrintPort: COM1 (dropdown).
- DataFile select:** Fields for DB (highlighted in red), AP, PrintTMP, BT File, CSN File, IMEI File, and WIFI File, each with an 'open' button.
- Project config:** AddProject: (text), Add button, Project: (dropdown), SWV: (text).
- Item config:** Radio buttons for Print, Write (selected), and Write&Print. Checkboxes for SN, CSN, BT, WIFI, IMEI, BTFlag, FTFlag, ANTFlag, CITFlag, ExtFile, and NetLabel^{new}.
- SN config:** Checkboxes for SNCheck, SNLength: 1, and SNHeadString: 1.
- IMEI config:** Radio buttons for Single (selected), Double, and Four. Checkboxes for IsIMEICheck (checked) and IMEI2AutoCreate Delta (100). An ExcelAssign checkbox is also present. Four pairs of text boxes labeled lowerRange1-4 and upperRange1-4, all containing 0000000000000000.

At the bottom of the window, there are three buttons: Modify, Save, and Cancel.

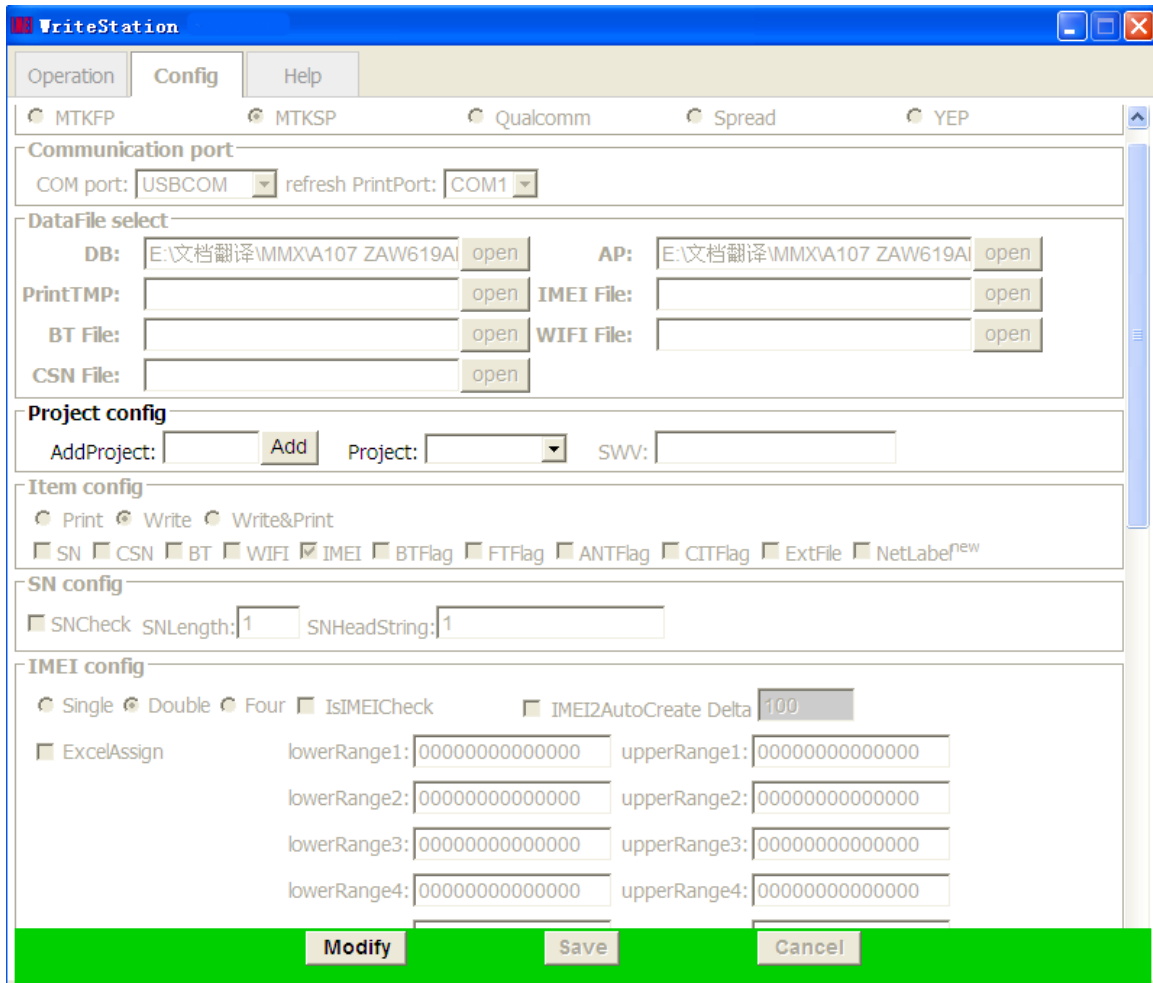




The screenshot shows the 'WriteStation' software interface with the following sections:

- Operation:** MTKFP, **MTKSP** (selected), Qualcomm, Spread, YEP
- Communication port:** COM port: USBCOM, refresh, PrintPort: COM1
- DataFile select:** DB: E:\文档翻译\MMXA107 ZAW619A\, AP: E:\文档翻译\MMXA107 ZAW619A\, PrintTMP, BT File, CSN File, IMEI File, WIFI File (all with 'open' buttons)
- Project config:** AddProject: [], Add, Project: [], SWV: []
- Item config:** Print, **Write** (selected), Write&Print, SN, CSN, BT, WIFI, **IMEI** (checked), BTFlag, FTFlag, ANTFlag, CITFlag, ExtFile, NetLabel^{new}
- SN config:** SNCheck, SNLength: 1, SNHeadString: 1
- IMEI config:** Single, **Double** (selected), Four, IsIMEICheck, IMEI2AutoCreate Delta: 100, ExcelAssign, lowerRange1-4, upperRange1-4 (all with text input fields)

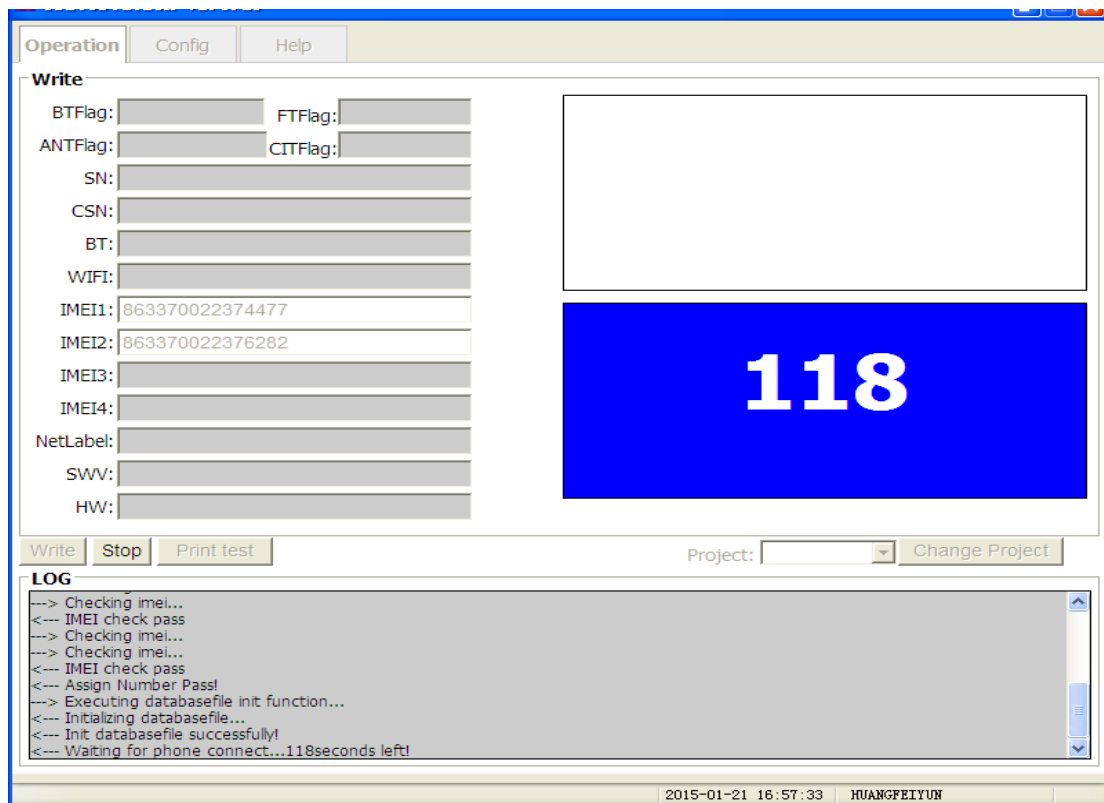
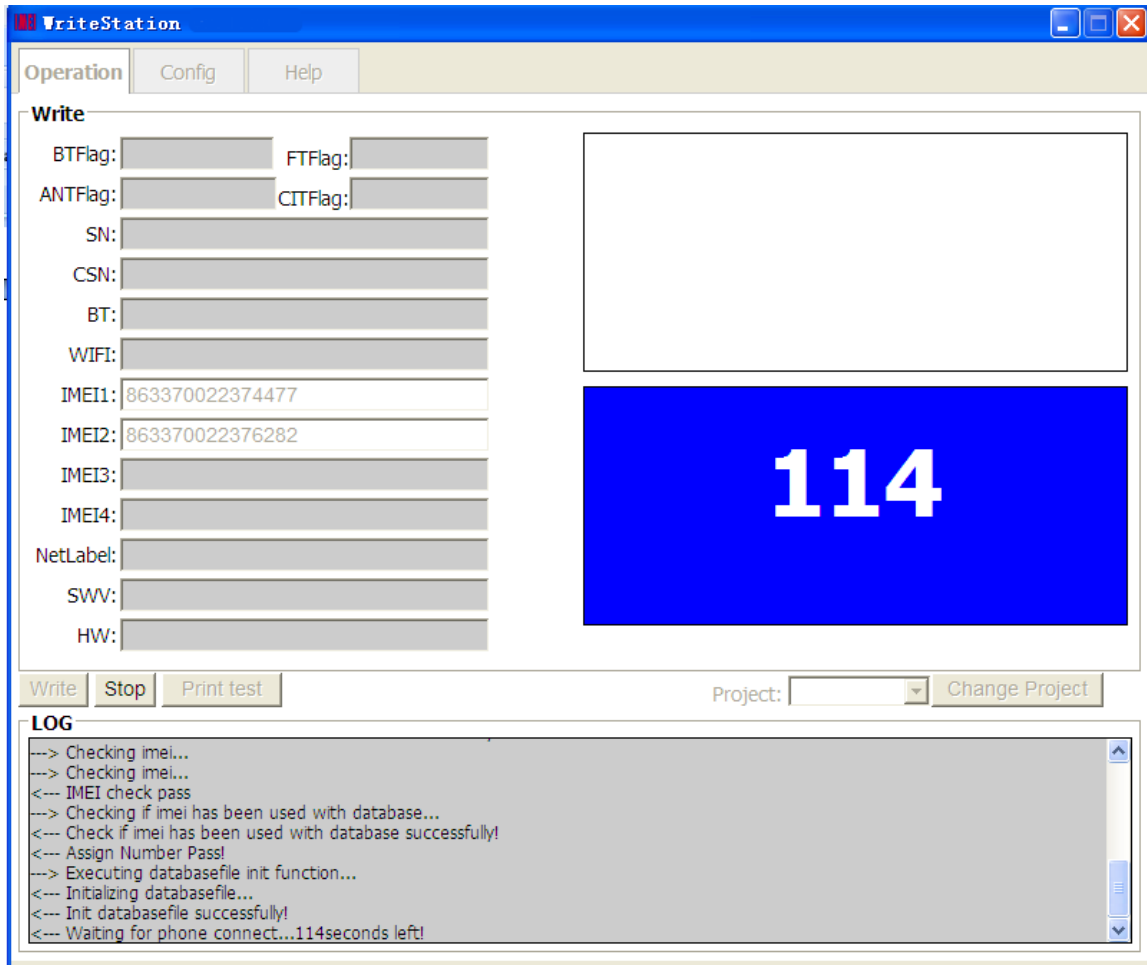
Buttons at the bottom: Modify, Save, Cancel

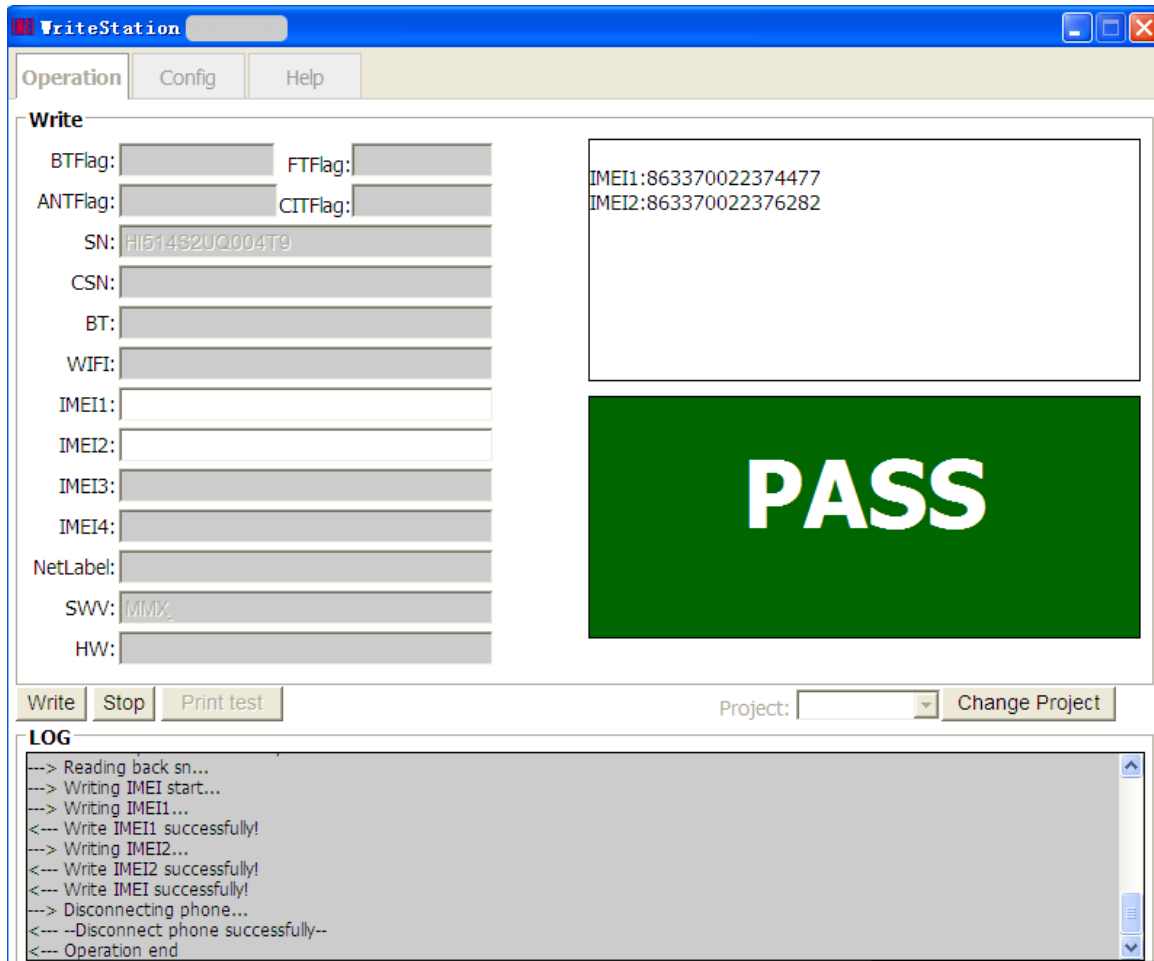


5.A.2. Change to “Operation” panel, and then input SN, BT, WIFI, and IMEI correctly, and then click “Start” or press “Enter” directly to start write number. Tool will wait two minutes before phone connected, otherwise tool will stop automatically.

The screenshot shows the WriteStation software interface. At the top, there are tabs for 'Operation', 'Config', and 'Help'. The main area is titled 'Write' and contains several input fields for configuration: BTF, ANT, SN, CSN, BT, WIFI, IMEI1 (863370022374477), IMEI2 (863370022376282), IMEI3, IMEI4, NetLabel, SWV, and HW. To the right of these fields is a large blue box with the word 'READY' in white. Below the input fields are buttons for 'Write', 'Stop', and 'Print test'. At the bottom right, there is a 'Project:' dropdown menu and a 'Change Project' button. A 'LOG' window at the bottom displays the following text:

```
<--- IMEIupper check pass!  
--> Checking IMEI2lower...  
<--- IMEI2lower check pass!  
--> Checking IMEI2upper...  
<--- IMEI2upper check pass!  
--> Saving parameter into file...  
<--- Save parameter into file successfully!  
<--- Change to DO  
--> Checking imei...  
<--- IMEI check pass
```





User should power to the phone and then connect PC and phone via usb cable when count occur showing as the upper picture.

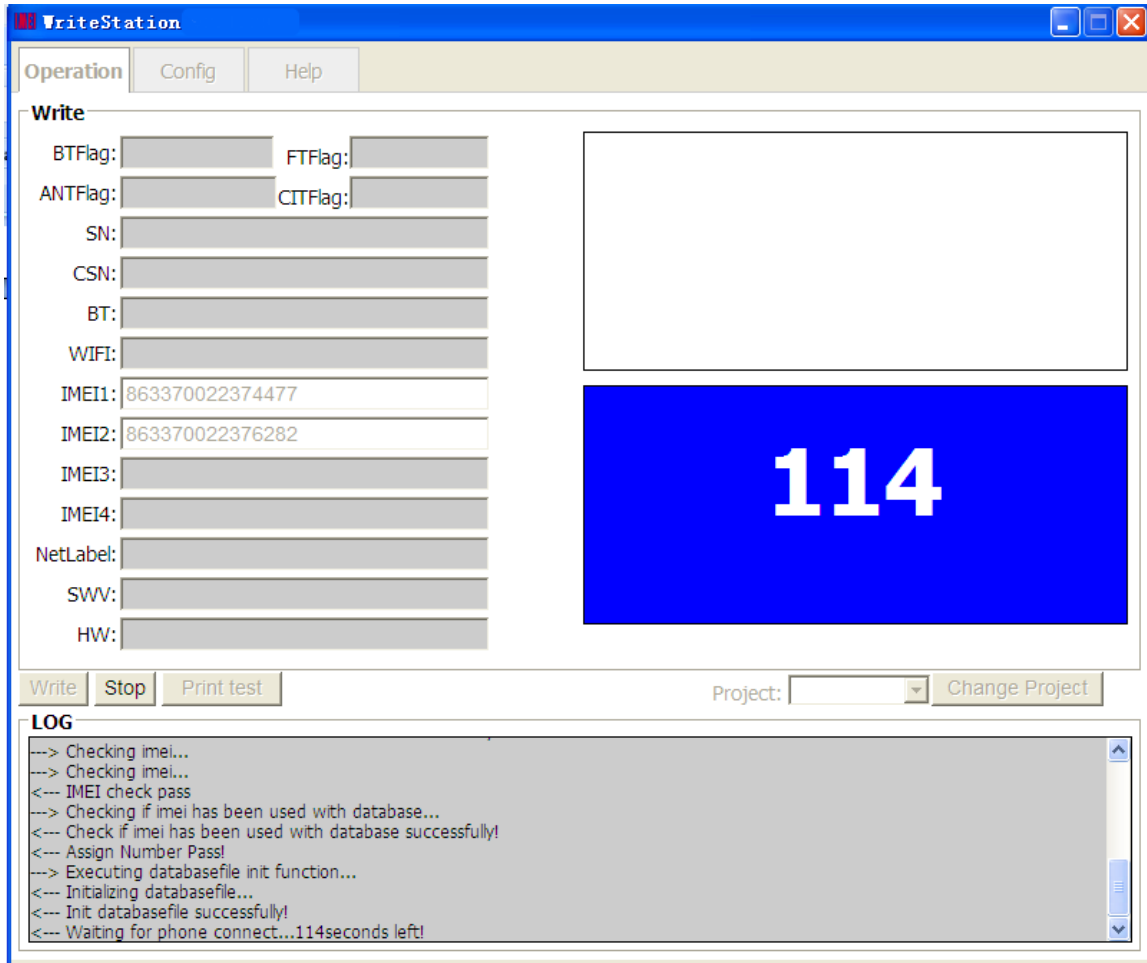
5.A.3. Operation complete

The screenshot shows the WriteStation software interface. At the top, there are tabs for 'Operation', 'Config', and 'Help'. The main area is titled 'Write' and contains several input fields for configuration: BTFIag, FTFIag, ANTFIag, CITFIag, SN (with value H151482JQ004T9), CSN, BT, WIFI, IMEI1, IMEI2, IMEI3, IMEI4, NetLabel, SWV (with value MMX), and HW. To the right of these fields, a text box displays the IMEI values: IMEI1:863370022374477 and IMEI2:863370022376282. Below this, a large green box with the word 'PASS' in white indicates a successful operation. At the bottom, there are buttons for 'Write', 'Stop', and 'Print test', along with a 'Project:' dropdown menu and a 'Change Project' button. A 'LOG' section at the bottom shows the following text: ---> Reading back sn... ---> Writing IMEI start... ---> Writing IMEI1... <--- Write IMEI1 successfully! ---> Writing IMEI2... <--- Write IMEI2 successfully! <--- Write IMEI successfully! ---> Disconnecting phone... <--- --Disconnect phone successfully-- <--- Operation end

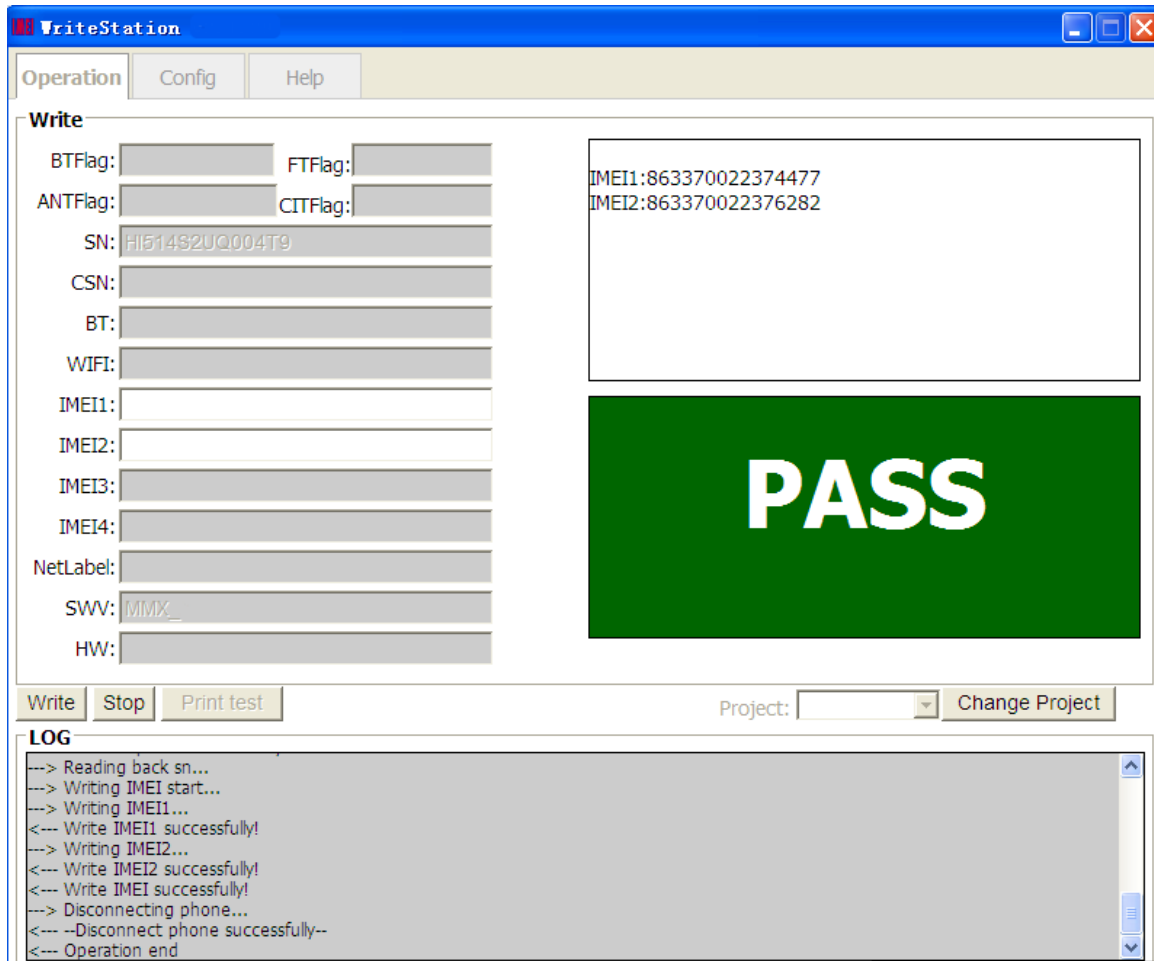
B:File assign IMEI number, others like this;

5.B.1. Change to “Operation” panel, and then click “Start” or press “Enter” directly to start write number.

Tool will wait two minutes before phone connected, otherwise tool will stop automatically.



5.B.2. User should power to the phone and then connect PC and phone via USB cable when count occur showing as the upper picture.



Write IMEI successfully

Appendix 1: The fabrication ofPrint Template File

Use WriteStation print function have to be according to the model production ,For example:

Users need to print the following label:

```
*****
111111111111119
*****
```

Only the following settings.(IMEI1 is 111111111111119 hypothesis)

```
*****
{IMEI1_15}
*****
```

Users need to print the following label:

```
*****
111111111111111
*****
```

Only the following settings.(IMEI1 is 111111111111119 hypothesis)

```
*****
{IMEI1_14}
*****
```

IMEI2,IMEI3,IMEI4 is similar, Only need to replace {IMEI1_15}and{IMEI1_14}with{IMEI2_15}and {IMEI2_14},{IMEI3_15}and {IMEI3_14},{IMEI4_15}and {IMEI4_14}; SN,CSN,BT,WIFI is {SN},{CSN},{BT}, {WIFI}。

Appendix 2: The fabrication of IMEI file

ID	IMEI1	IMEI2	IMEI3	IMEI4	STATUS
1	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	valid
2	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	valid
3	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	XXXXXXXXXXXXX (14 digit)	valid
.....

- 1: The IMEI file is required for the EXCEL form
- 2: Excel file have only one form, Please delete the redundant form
- 3: ID, IMEI and STATUS only contains values corresponding column, Cannot contain expressions (Such as formula, function, etc)
- 4: The value of the ID column is digital and can not be repeated.

Appendix 3: The fabrication of BT file

ID	BT	STATUS
----	----	--------

1	XXXXXXXXXXXX(12 digit)	valid
2	XXXXXXXXXXXX(12 digit)	valid
3	XXXXXXXXXXXX(12 digit)	valid
.....

- 1: The BT file is required for the EXCEL form
- 2: Excel file have only one form, Please delete the redundant form
- 3: ID, IMEI and STATUS only contains values corresponding column, Cannot contain expressions (Such as formula, function, etc)
- 4: The value of the ID column is digital and can not be repeated.

Appendix 4: The fabrication of WIFI file

ID	WIFI	STATUS
1	XXXXXXXXXXXX(12 digit)	valid
2	XXXXXXXXXXXX(12 digit)	valid
3	XXXXXXXXXXXX(12 digit)	valid
.....

- 1: The WIFI file is required for the EXCEL form
- 2: Excel file have only one form, Please delete the redundant form
- 3: ID, IMEI and STATUS only contains values corresponding column, Cannot contain expressions (Such as formula, function, etc)
- 4: The value of the ID column is digital and can not be repeated.

Appendix 5: The fabrication of CSN file

ID	CSN	STATUS
1	XXXXXXXXXX	valid
2	XXXXXXXXXX	valid
3	XXXXXXXXXX	valid
.....

- 1: The CSN file is required for the EXCEL form
- 2: Excel file have only one form, Please delete the redundant form
- 3: ID, CSN and STATUS only contains values corresponding column, Cannot contain expressions (Such as formula, function, etc)
- 4: The value of the ID column is digital and can not be repeated.

Thanks

For any Query or suggestion, Please write to tech.help@micromaxinfo.com