

[Westlake] SOP of Image Download

BU15-SW Div
2012/2/3

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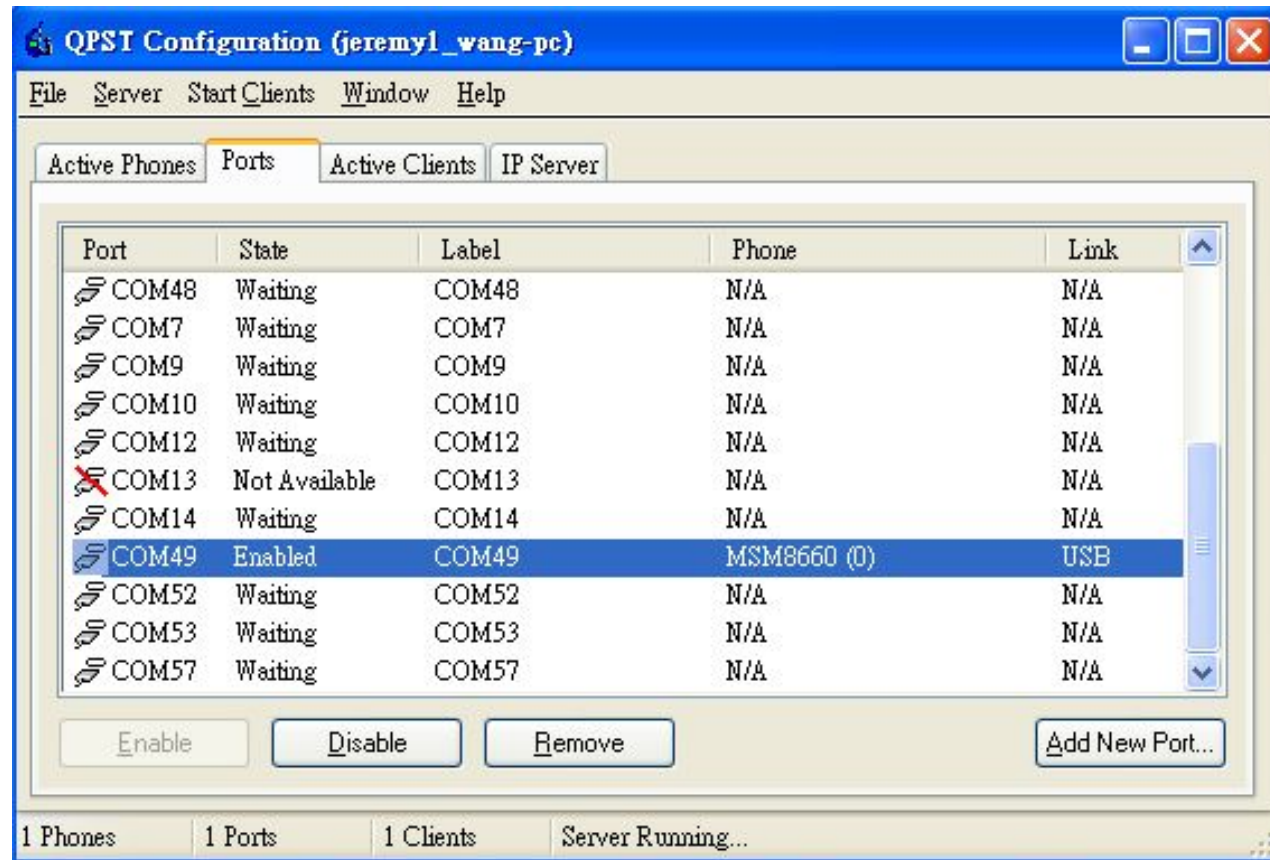
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QCN and system data backup

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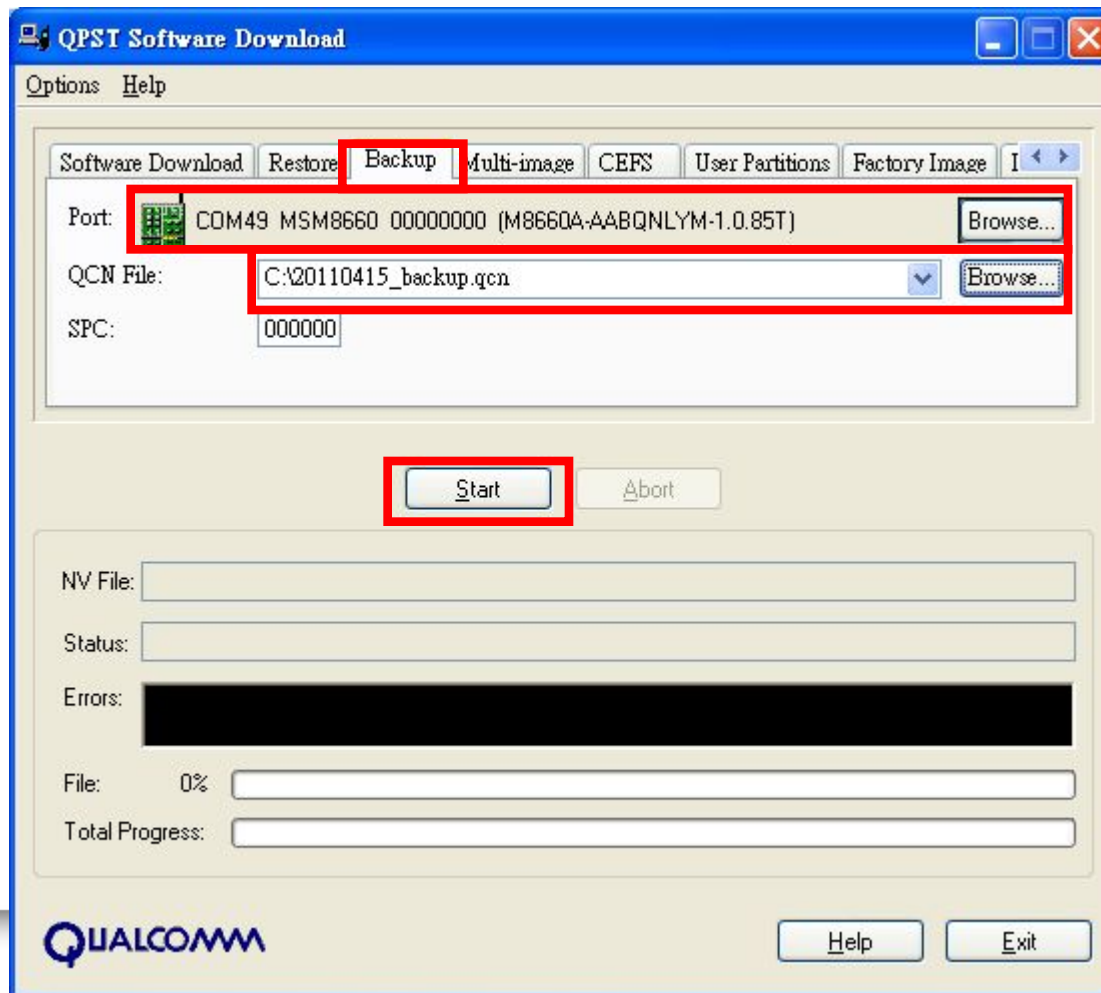
QPST CONFIGURATION

- Check com port setting is as following:



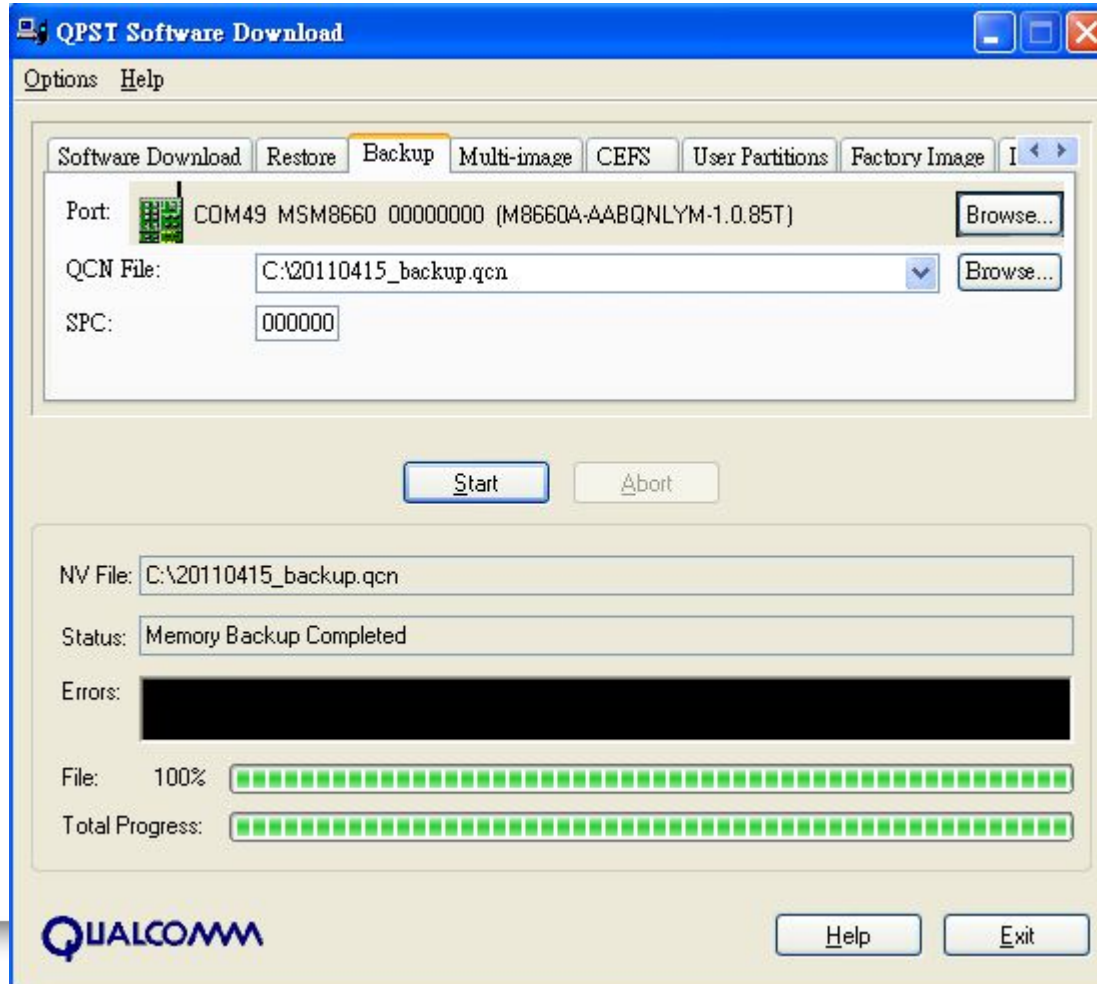
QPST Backup 1.

- Check com port setting is as following, and where the location you want to backup.



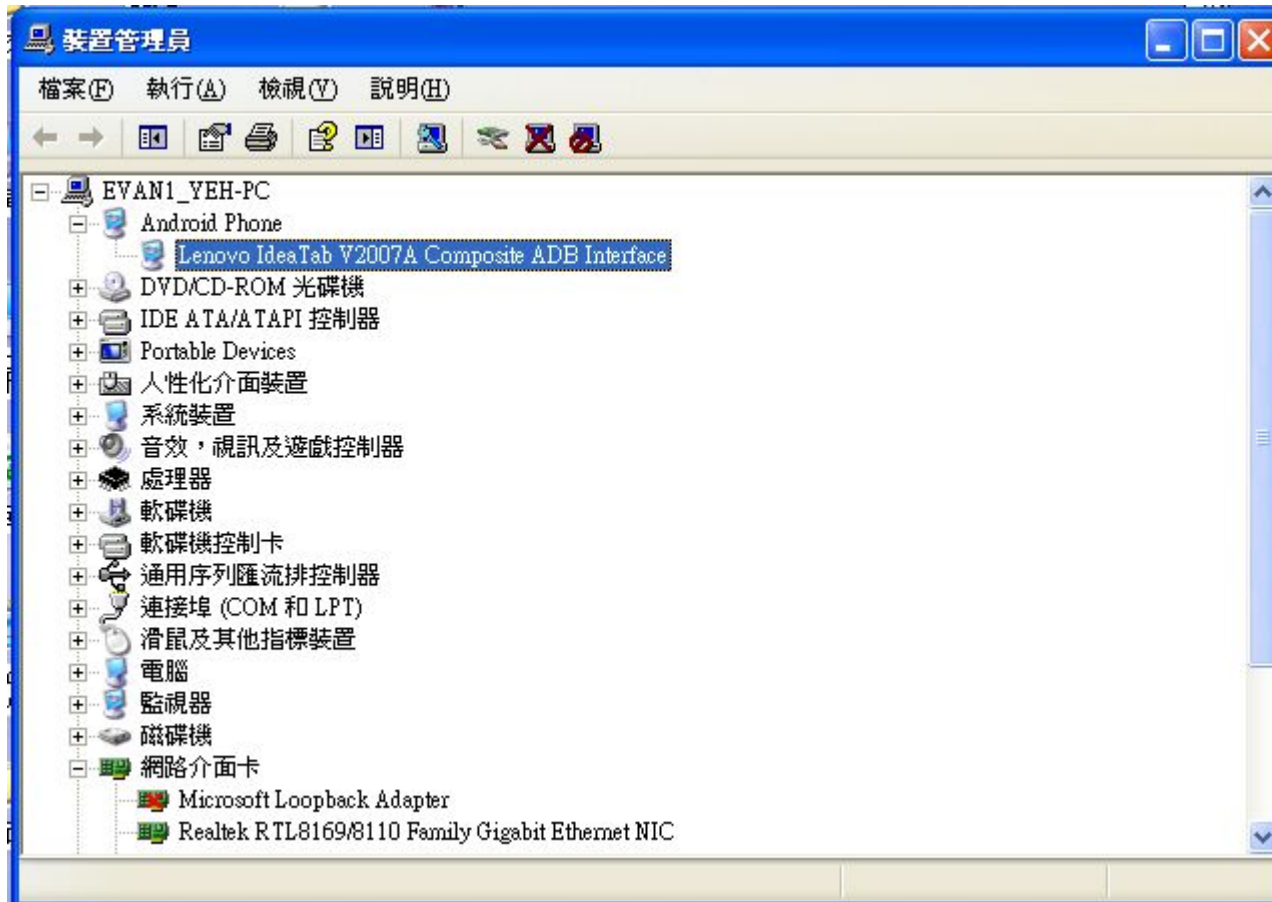
QPST Backup 2.

- Backup finished.



System Data Backup 1.

- Check com port for ADB is available:



System Data Backup 2.

Use adb command to backup System Data, the command line is as bellow:

```
adb pull persist/bt_nv.bin
```

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Image download

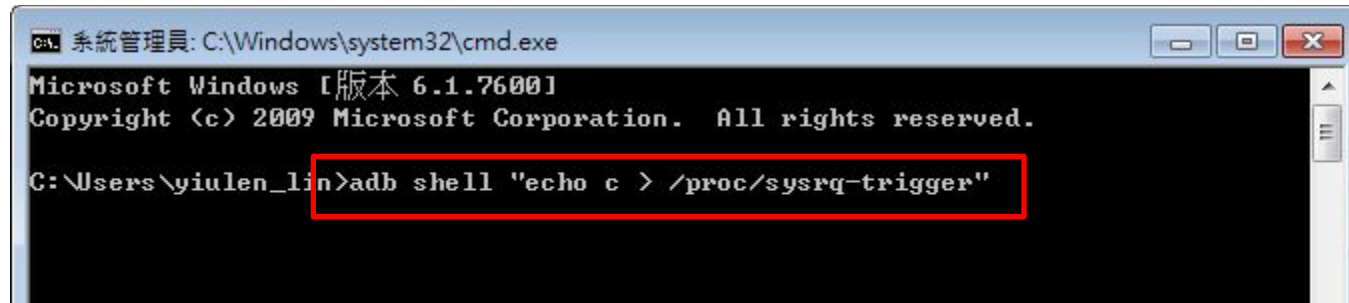
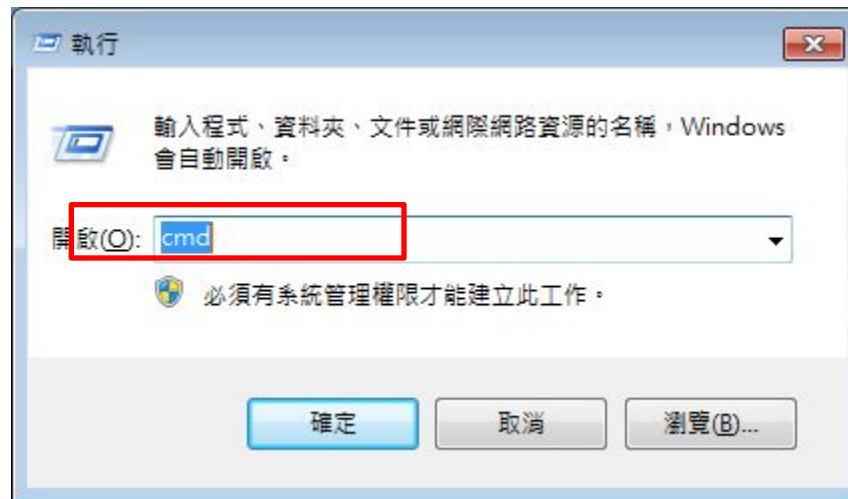
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Step 0

- Install QPST version v2.7 **build 378**
 - <\\ptw-dp-02\BinFiles\Westlake\Tools\QPST2.7.378.zip>
 - Install USB driver for download mode
- Before download image by QPST, please execute backup QCN
- Prepare related images and hexs
 - Modem part
 - Application part
- The modem and application parts are in the same folder:

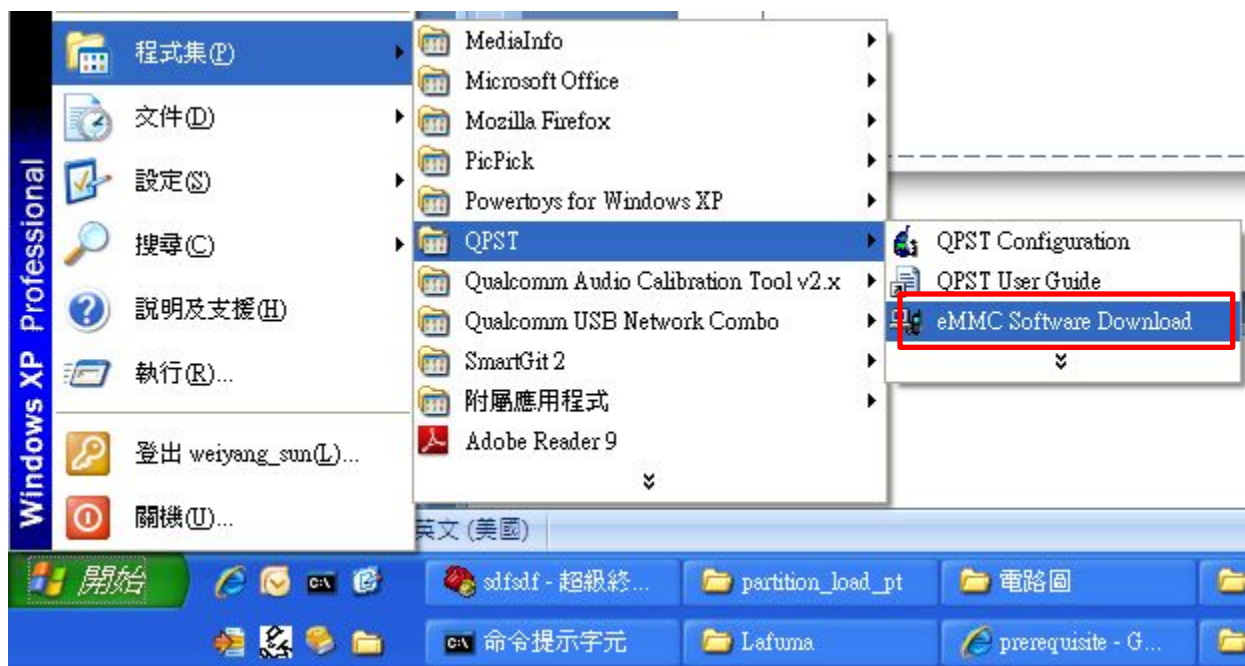
Step1

- Press start -> execute
- Type `cmd`
- Type `adb shell "echo c > /proc/sysrq-trigger"`



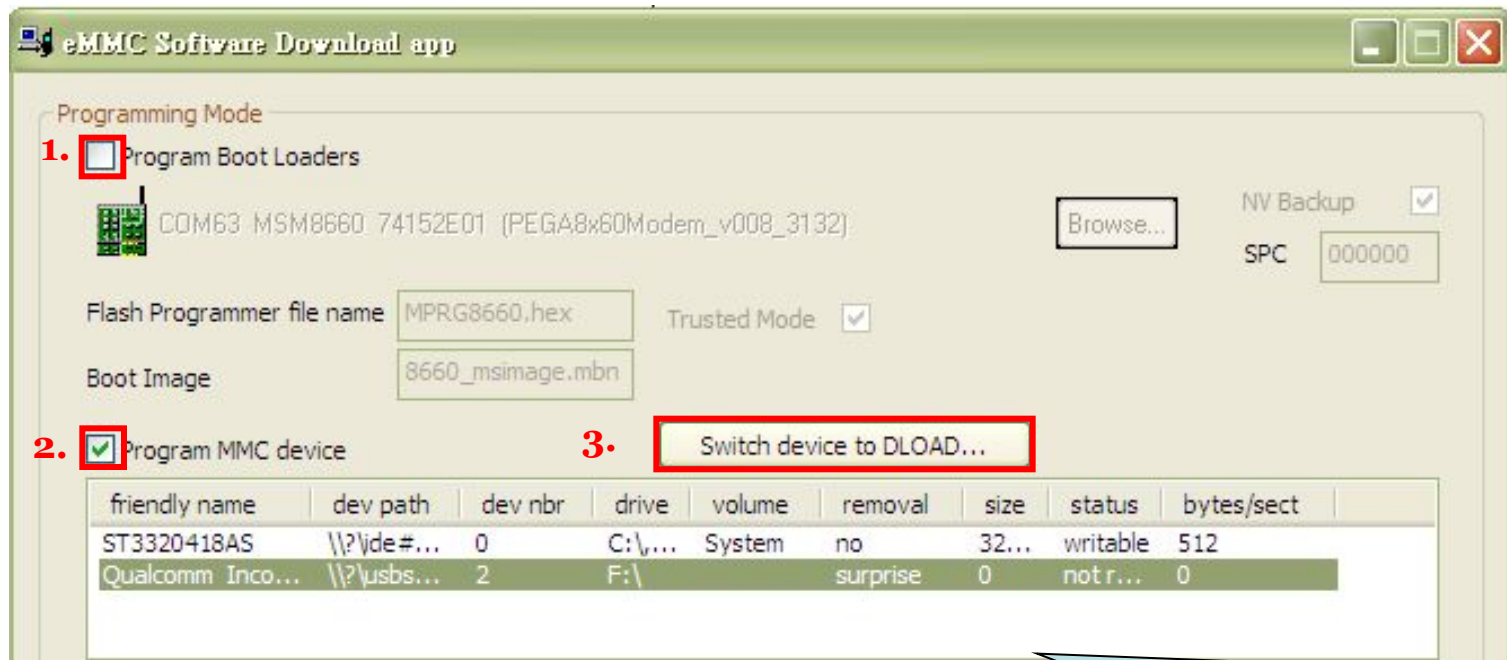
Step 2

- Execute eMMC Software Download



Step 3

- 1. Do not click “Program Boot Loaders” button.
- 2. Click “Program MMC device” button.
- 3. Make sure modem is in download mode or not, or you can click “Switch device to DLOAD...” button to force modem enter download mode.



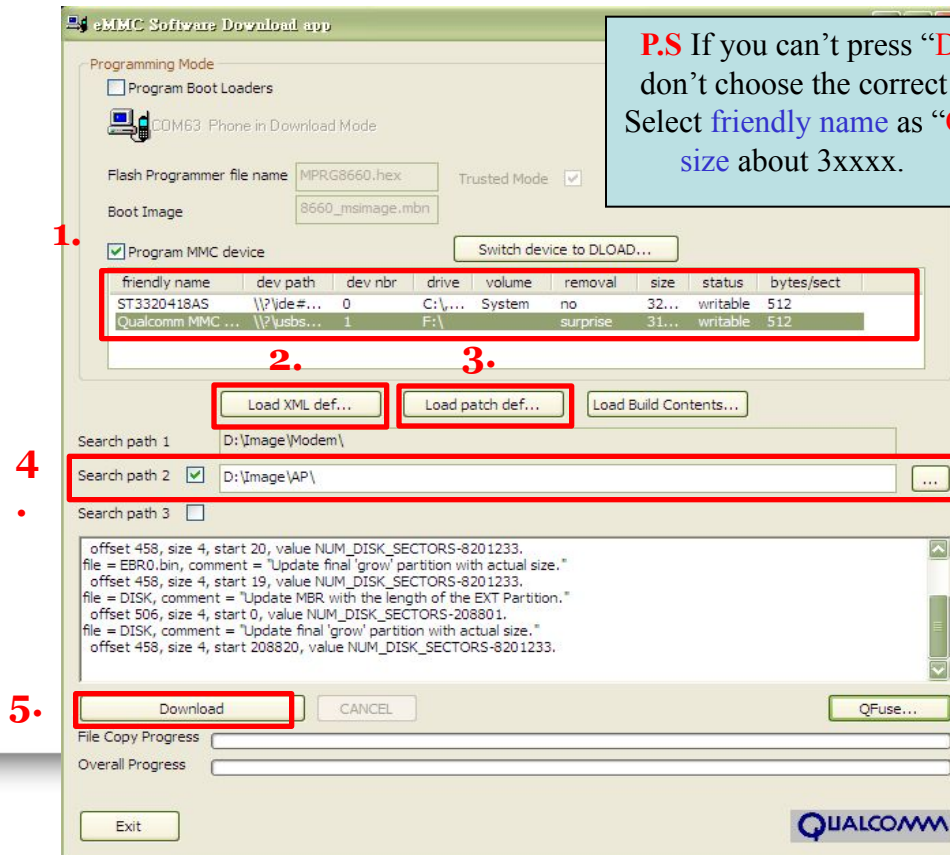
Do not click !!

Click !!

P.S Click this only when your COM port is not at Download mode.

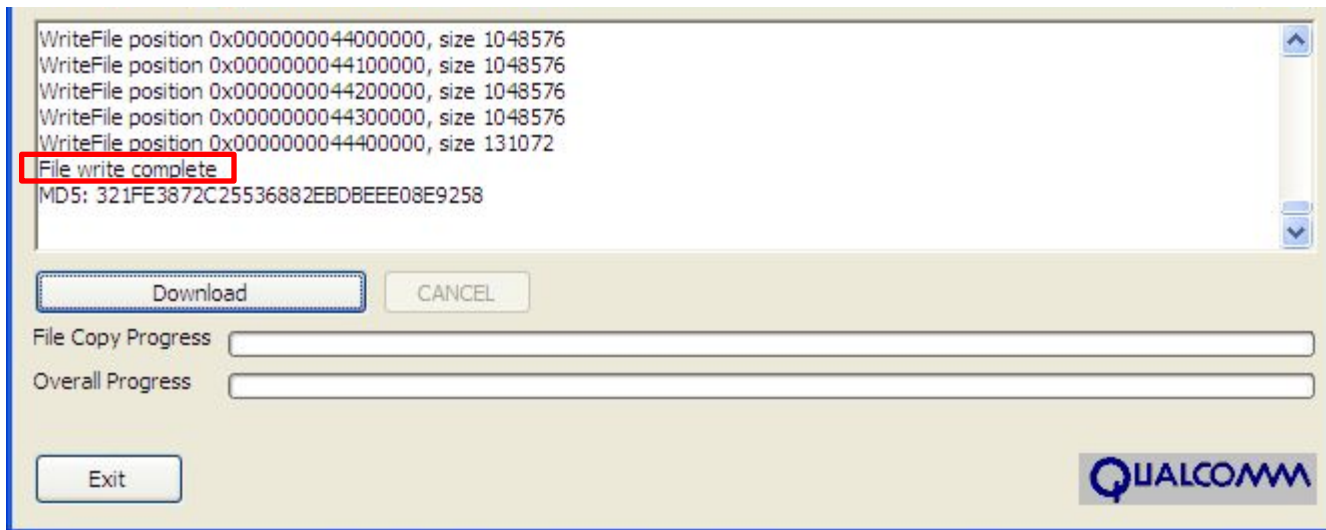
Step 4

- 1. Select friendly name as “Qualcomm MMC ...”
- 2. Click “Load XML def...” button to select sparse-rawprogram0.xml from modem image
- 3. Click “Load patch def...” button to select patch0.xml from modem image
- 4. Click “Search path 2” and select to AP image folder.
- 5. Finally, Click “Download” button.



Step 5

- After about 1 min, you should see the message “File write complete”.
- Reboot target manually since QPST won't do that.
- After download image by QPST, please execute restore QCN



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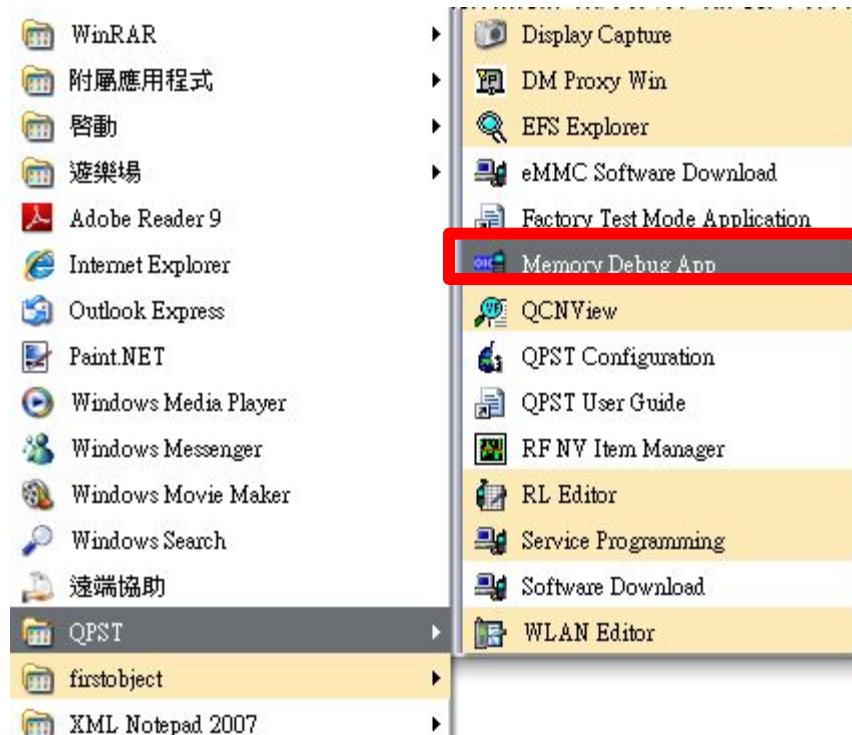
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Reboot system

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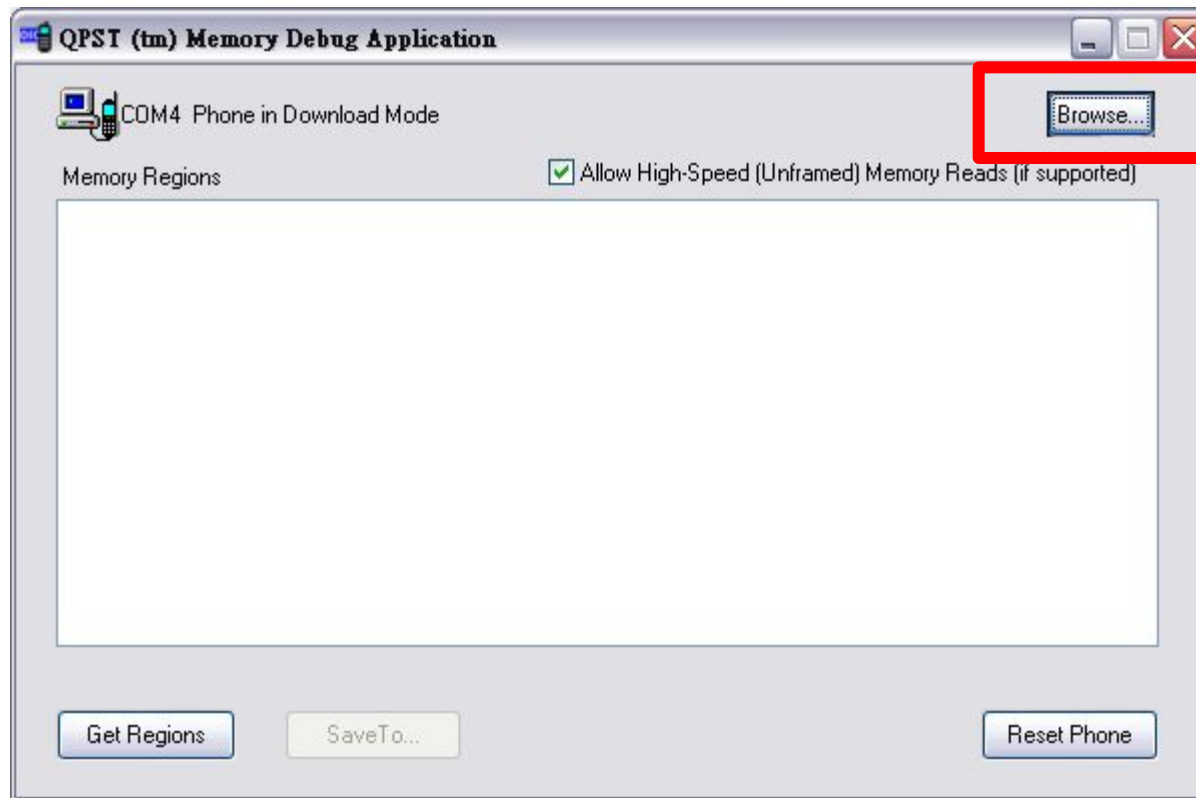
Step 1

- Open **Memory Debug App**



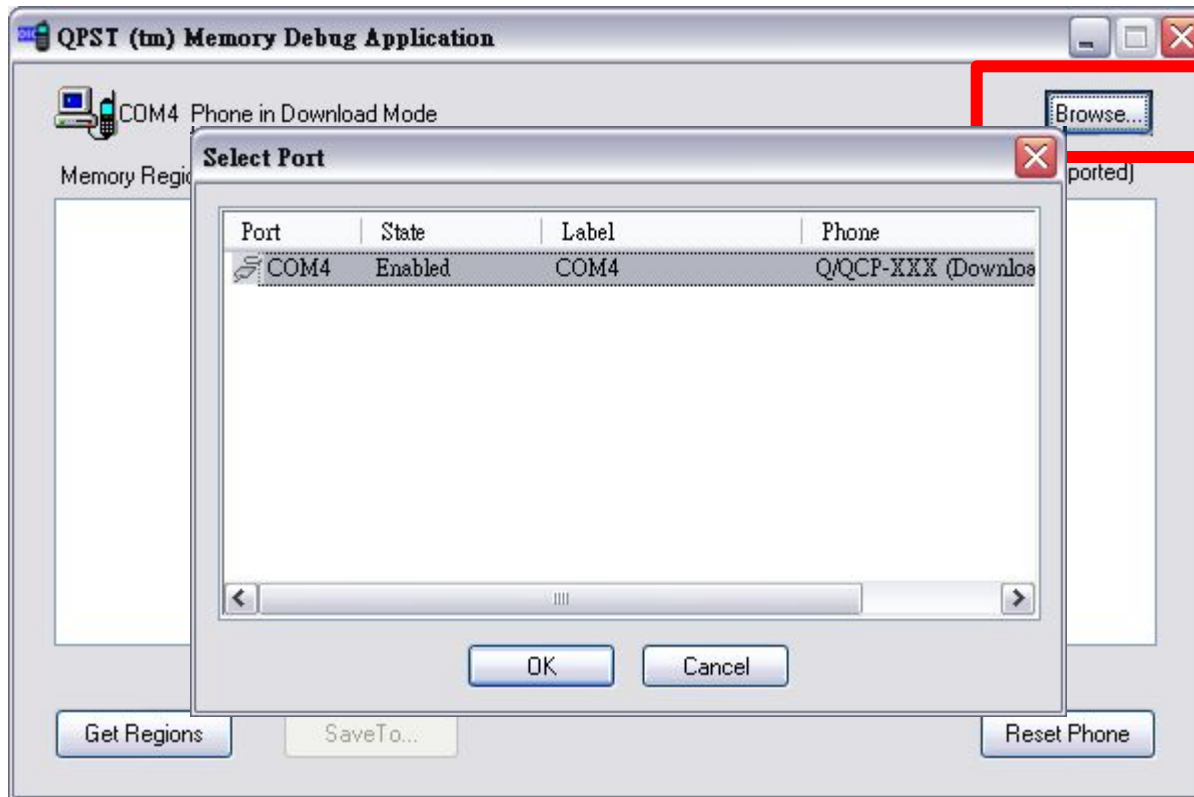
Step 2

- Click **Browse...**



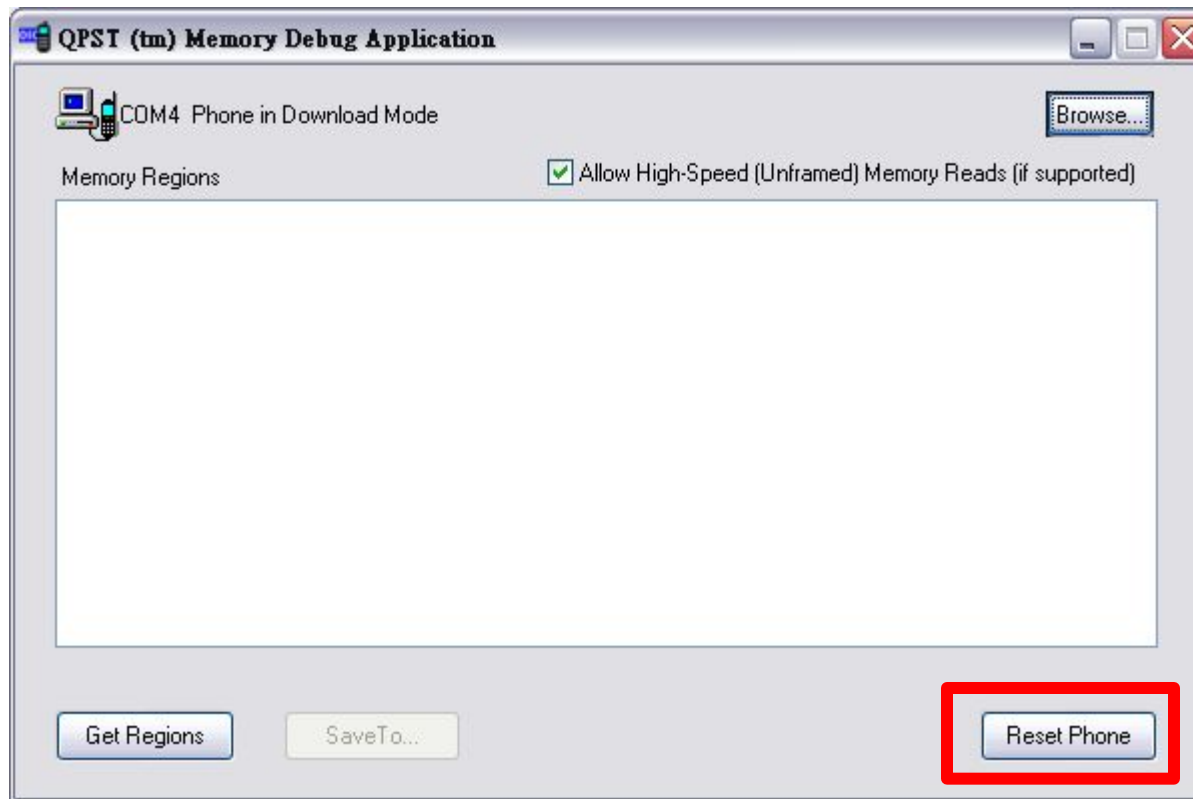
Step 3

- Choose the COM port that named Q/QCP-XXX (Download mode)
- Click OK



Step 4

- Click **Reset Phone**



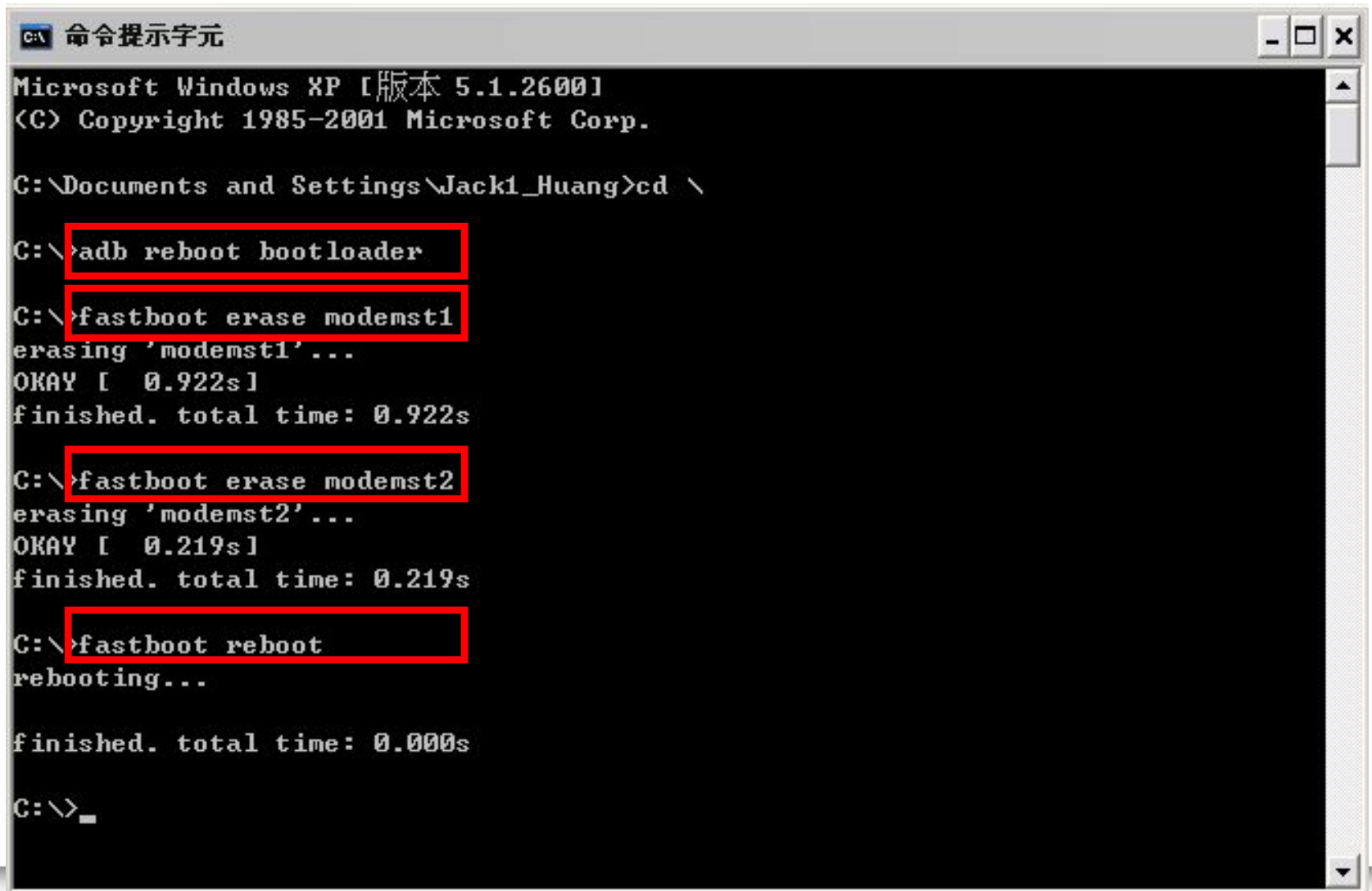
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QCN and system data restore

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QCN Restore 0.



```
命令提示字元
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jack1_Huang>cd \

C:\>adb reboot bootloader

C:\>fastboot erase modemst1
erasing 'modemst1' ...
OKAY [ 0.922s]
finished. total time: 0.922s

C:\>fastboot erase modemst2
erasing 'modemst2' ...
OKAY [ 0.219s]
finished. total time: 0.219s

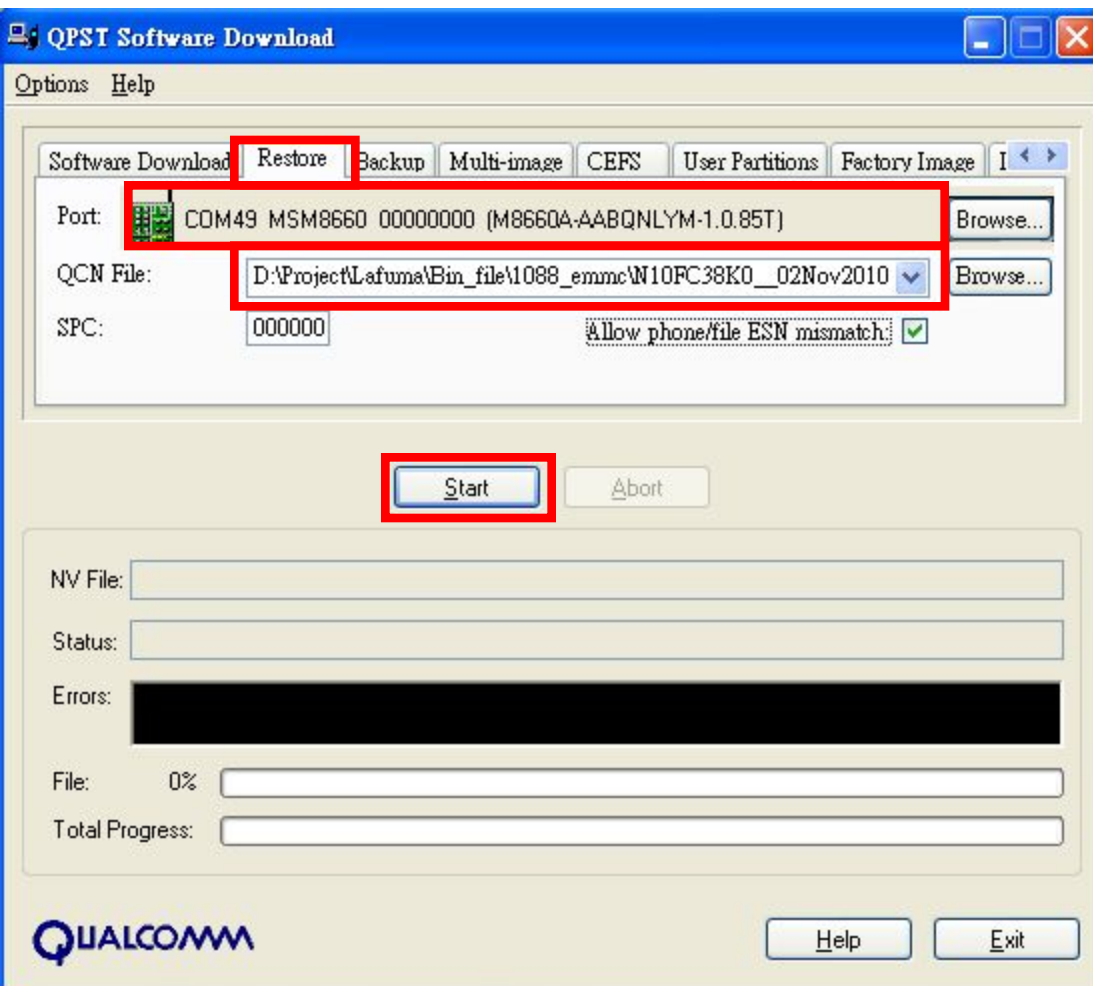
C:\>fastboot reboot
rebooting...

finished. total time: 0.000s

C:\>_
```

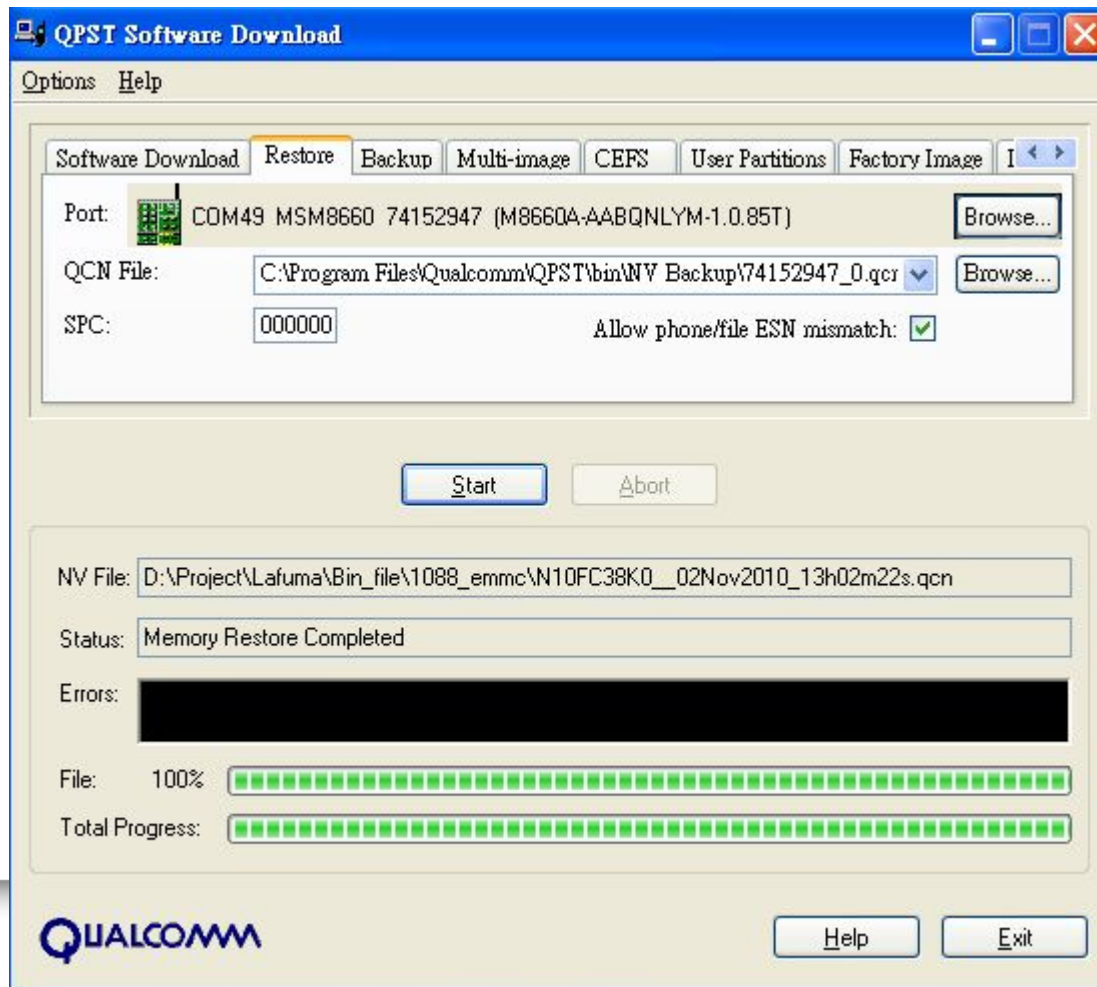
QCN Restore 1.

- Choose restor tab, correspond Port and QCN file
- Press start to restore QCN.



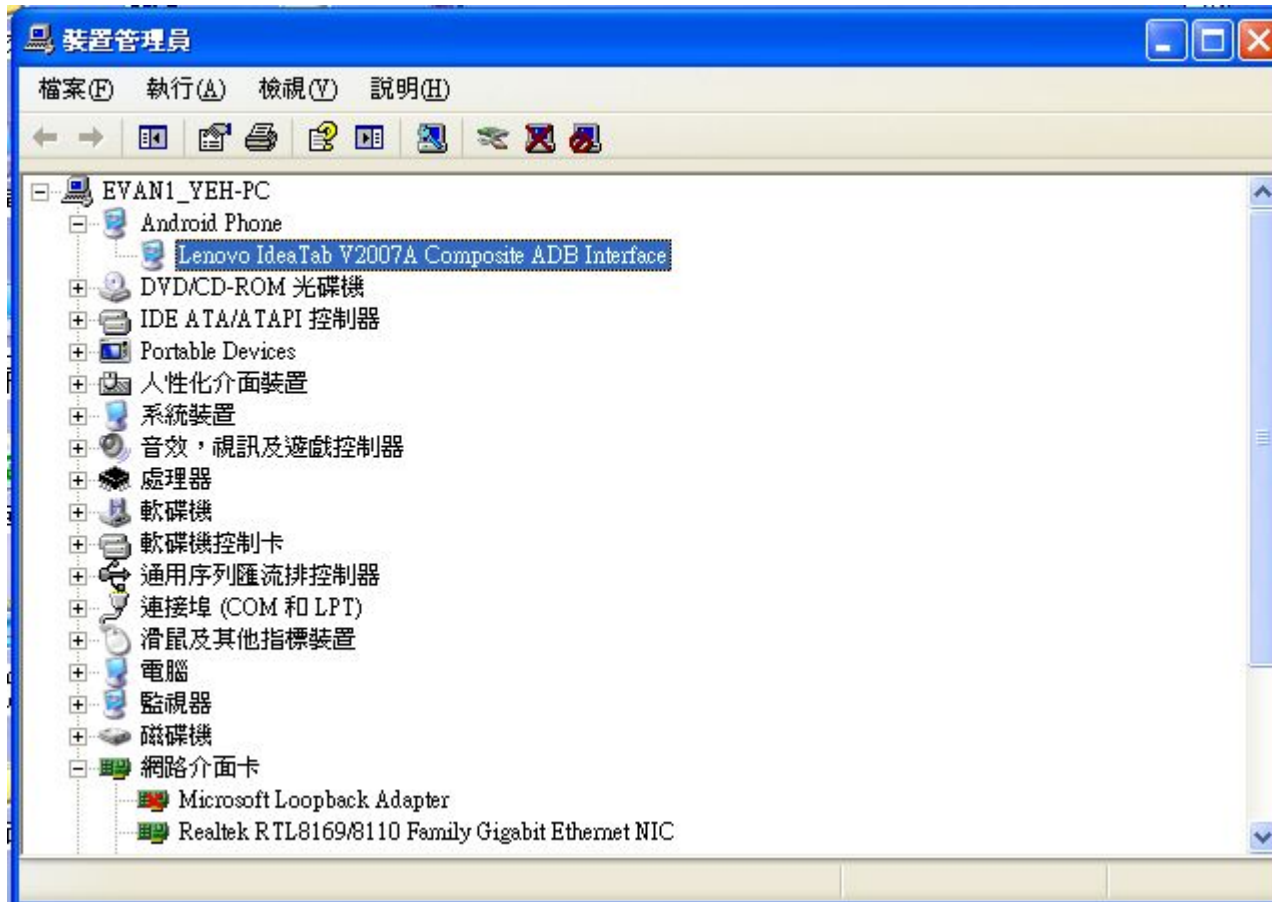
QCN Restore 2.

- After finished download, the device will reboot automatically.
- Plug your SIM card to check call function is workable.



System Data Backup 1.

- Check com port for ADB is available:



System Data Backup 2.

Use adb command to restore System Data, the command line is as bellow:

```
adb push bt_nv.bin persist/
```

System Data Backup 3.

注意:自V007後,都要這個步驟

現在資料夾多了兩個檔案, `push_WCNSS_ini.zip`和`WCNSS_qcom_cfg.ini`

`push_WCNSS_ini.zip`解壓縮後會有一個 `push_WCNSS_ini.bat`,
請大家 download 完 QPST 之後,要再執行 `push_WCNSS_ini.bat`, 將
`WCNSS_qcom_cfg.ini`
送進device, 這樣 Wi-Fi 才可以正常開啟。