[Westlake] SOP of Image Download

BU15-SW Div 2012/2/3

QCN and system data backup



QPST CONFIGURATION

• Check com port setting is as following:

tive Phones P	orts Active (Clients IP Server			
Port	State	Label	Phone	Link	^
<i>⋛</i> СОМ48	Waiting	COM48	N/A	N/A	
SCOM7	Waiting	COM7	N/A	N/A	
SCOM9	Waiting	COM9	N/A	N/A	
₽COM10	Waiting	COM10	N/A	N/A	
₽COM12	Waiting	COM12	N/A	N/A	1
🗶 СОМ13 💠	Not Available	COM13	N/A	N/A	
SCOM14	Waiting	COM14	N/A	N/A	
🖉 СОМ49 🗌	Enabled	COM49	MSM8660 (0)	USB	
COM52	Waiting	COM52	N/A	N/A	
SCOM53	Waiting	COM53	N/A	N/A	
<i>Ş</i> СОМ57	Waiting	COM57	N/A	N/A	~

QPST Backup 1.

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

PST Software Download
ns <u>H</u> elp
oftware Download Restore Backup Julti-image CEFS User Partitions Factory Image I
ort: COM49 MSM8660 00000000 (M8660A-AABQNLYM-1.0.85T) Browse
2CN File: C:\20110415_backup.qcn 💽 Browse
PC: 000000
Start Abort V File:
le: 0% []
otal Progress:

QPST Backup 2.

• Backup finised.

QPST Softwar	e Download	
ions <u>H</u> eip		
Software Downle	ad Restore Backup Multi-image CEFS User Partitions Factory Image I	
Port:	0M49 MSM8660 00000000 (M8660A-AABQNLYM-1.0.85T) Browse	
QCN File:	C:\20110415_backup.qcn 🖌 Browse	
SPC:	000000	
	Start Abort	
V File: C:\201	10415_backup.gcn	
Status: Memory	Backup Completed	
Errors:		
File: 100%		
File: 100% Total Progress:		
File: 100% Total Progress:		
File: 100% Total Progress:		

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



- Install QPST version v2.7 build 378
 - <u>\\ptw-dp-02\BinFiles\Westlake\Tools\QPST2.7.378.zip</u>
 - 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:

- Press start -> execute •
- Type cmd
- Type adb shell "echo c > /proc/sysrq-trigger" ٠







- III

Execute eMMC Software Download



- 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.

	💐 eMMC Sofiware Download	80D					
	Programming Mode						
	Program Boot Loaders						NV Backup
not click	COM63 MSM8660 74	152E01 (PEGA8x60)Modem_v008_31	32)		Browse	SPC 000000
!!	Flash Programmer file name	MPRG8660,hex	Trusted Mode				
	Boot Image	8660_msimage.mbn					
	2. 🔽 Program MMC device	3.	Switch dev	vice to DLOAD)		
	friendly name dev pa	ath devinbr d	drive volume	removal	size	status	bytes/sect
		# 0 0	:\ System	no	32	writable	512
iak 11	ST3320418AS \\?\ide	U U	0	and the state of the	and the second se	and the second se	and the second se

- 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.

 Altic Software Programming Mode Program Boc Program Boc COM63 Flash Programm Boot Image Program MM Fiendly name ST3320418AS Pradicomm MM Search path 1 Search path 1 Search path 2 Search path 3 Offset 458, size 4, file = DISK, commet offset 458, size 4, file = DISK, commet offset 458, size 4, Downlo File Copy Progress Overall Progress 	start 20, value NUM_DISK_SECTORS-8201233. start 200820, value NUM_DISK_SECTORS-8201233. ad CANCEL	P.S If you can't press "Do don't choose the correct N Select friendly name as "Q size about 3xxxx.	wnload" button, you must MMC device. Then check pualcomm MMC" or
Exit		QUALCOMM	PEGATRON

- 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

WriteFile position 0x000000044000000, size 1048576 WriteFile position 0x000000044100000, size 1048576 WriteFile position 0x000000044200000, size 1048576 WriteFile position 0x000000044300000, size 1048576 WriteFile position 0x000000044400000, size 131072	
File write complete MD5: 321FE3872C25536882EBDBEEE08E9258 Download CANCEL	
File Copy Progress	
Exit	QUALCOMM

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Reboot system



• Open Memory Debug App





• Click Browse...

n	
Brows	e]
Allow High-Speed (Unframed) Memory Reads (if supporte	ed)
Reset Phor	ne
	Allow High-Speed (Unframed) Memory Reads (if supporte

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

emory Regio	Select Port	ad Mode			ported)
	Port S COM4	State Enabled	Label COM4	Phone Q/QCP-XXX (Downlos	



Click Reset Phone

骨 QPST (tm) Memory Debug Application	
COM4 Phone in Download Mode	Browse
Memory Regions	Allow High-Speed (Unframed) Memory Reads (if supported)
Get Regions SaveTo	Reset Phone

QCN and system data restore



QCN Restore 0.

■ 命令提示字元	- 🗆 ×
Microsoft Windows XP [版本 5.1.2600]	
<c> Copyright 1985-2001 Microsoft Corp.</c>	
C:\Documents and Settings\Jack1_Huang>cd \	
C:∖≻adb reboot bootloader	
C:\ <mark>\</mark> 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.

QPST Software Download	
Options <u>H</u> elp	
Software Download Restore Backup Multi-image CEFS User Partitions Factory Image Port: COM49 MSM8660 000000000 (M8660A-AABQNLYM-1.0.85T) Factory Image QCN File: D:\Project\Lafuma\Bin_file\1088_emmc\W10FC38K0_02Nov2010 Factory Image SPC: 000000 Allow phone/file ESN mismatch File: NV File: Status: File: 0%	e I I I I I I I I I I I I I I I I I I I
Total Progress:	

QCN Restore 2.

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

ons Help								
						10.0		
Software Downl	load Restore E	ackup Multi-ima,	ze CEFS Us	er Partitions	Factory In	nage 🛛 I 🛸	~	
Port:	OM49 MSM8660	74152947 (M866	QA-AABQNLYM-1	.0.85T)		Browse]	
QCN File:	C:\Program	Files'Qualcomm'QH	ST\bin\NV Back	.p\74152947_	_0.qc1 🗸	Browse		
SPC:	000000		Allow phone/	file ESN misn	oatch: 🔽			
		<u>S</u> tart	Abort					
		<u>Start</u>	Abort				_	
VV File: D:\Pro	oject\Lafuma\Bin_	<u>Start</u> file\1088_emmc\N	Abort	ov2010_13hC)2m22s.qc	n		
NV File: D:\Pro Status: Memor	oject\Lafuma\Bin_ ry Restore Comple	<u>S</u> tart file\1088_emmc\N ted	Abort	ov2010_13hC)2m22s.qc	n		
NV File: D:\Pro Status: Memor	oject\Lafuma\Bin_ ry Restore Comple	<u>S</u> tart file\1088_emmc\N ted		ov2010_13hC)2m22s.qc	n		
VV File: D:\Pro Status: Memor Errors:	oject\Lafuma\Bin_ ry Restore Comple	<u>S</u> tart file\1088_emmc\N ted	Abort	ov2010_13hC	12m22s.qc	n		
NV File: D:\Pro Status: Memor Errors: File: 100%	oject\Lafuma\Bin_ ry Restore Comple	<u>S</u> tart file\1088_emmc\N ted	Abort	ov2010_13hC	12m22s.qc	n		
NV File: D:\Pro Status: Memor Errors: File: 100%	oject\Lafuma\Bin_ ry Restore Comple	<u>Start</u> file\1088_emmc\N ted	<u>Abort</u>	ov2010_13hC)2m22s.qc	n		
NV File: D:\Pro Status: Memor Errors: File: 100% Total Progress:	oject\Lafuma\Bin_ ry Restore Comple	<u>Start</u> file\1088_emmc\N ted	Abort	ov2010_13hC)2m22s.qc	n		
NV File: D:\Pro Status: Memor Errors: File: 100% Total Progress:	oject\Lafuma\Bin_ ry Restore Comple	<u>Start</u> file\1088_emmc\N ted	<u>Abort</u>	ov2010_13hC	12m22s.qc	n		

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。