

Service Documentation

BenQ XCSD Tool L2

TI-Platform

Release	Date	Department	Notes to change
R 1.0	01.08.2006	ISC S CES	New document

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1 Introduction

1.1 Purpose

This Service Repair Documentation is intended to carry out software downloads on BenQ mobile phones for repair level 1-3.

1.2 Scope

This document is the reference document for all BenQ authorised Service Partners which are released for software update of BenQ mobile phones.

1.3 Terms and Abbreviations

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2 System Requirements

Hardware:

Operation system:	Win98 / WinNT / Win2000 / WinXP
CPU:	Pentium 100 Mhz or higher.
Hard Disk:	Free 10MB space.
Memory:	64MB RAM.
Input Device:	Keyboard and mouse
Mobile connection:	USB boot cable with USB foxlink driver (for TI Platform) F30032-P601-A1 USB boot cable (for P50) F30032-P603-A1

Software for TI Platform:

Latest version of "XCSD" Tool >> available via C-Market
 Latest version of USB to serial Driver for Cable F30032-P601-A1

Core software according to release tables	(ending with .mot)
Language software according to release tables	(ending with .mot)
Configuration files according to release tables	(ending with .ppf)
Database file for configuration	(ending with .bin)

Software for P50:

Latest version of "XCSD" Tool >> available via C-Market

Boot loader software (OS EP) according to release tables	(ending with .bin)
Windows Mobile SW (OS Image) according to release tables	(ending with .bin)
Modem Software (GPRS file) according to release tables	(ending with .mot)

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3 Setup of the Software

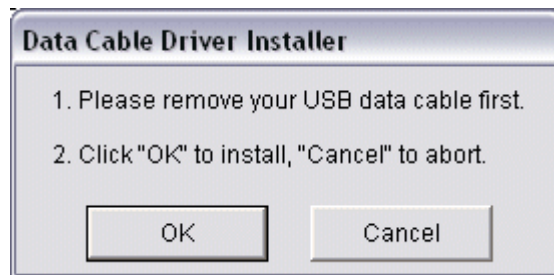
Download of the required software:

Download the driver, Microsoft ActiveSync (only for P50 software update) and the XCSD software mobile software (core-software and language files) from the Technical Support Page:

<https://market.benqmobile.com/so/welcome.lookup.asp>

Installation of USB – Serial converter boot cable:

Start the “DataCableDrvInstaller.exe” file and follow the instructions of the installer.



Plug in the Data cable and follow the installation instructions to complete the process.

**Check the Comport number of the data cable in the device manager.
(XCSD tool supports only Comport 1 to 10)**

Installation of Microsoft ActiveSync (only required for P50 Software Update) :

Start “active_sync_41_setup.exe” and follow the instructions of the installer.
After successful installation the PC must be rebooted.

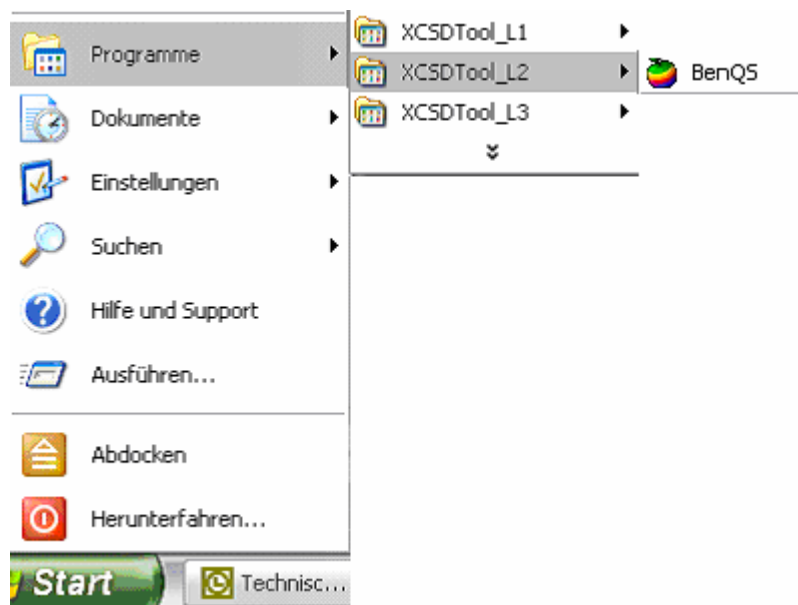
After reboot active sync should be closed. Not required to “search” for hardware.

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Installation of XCSD tool:

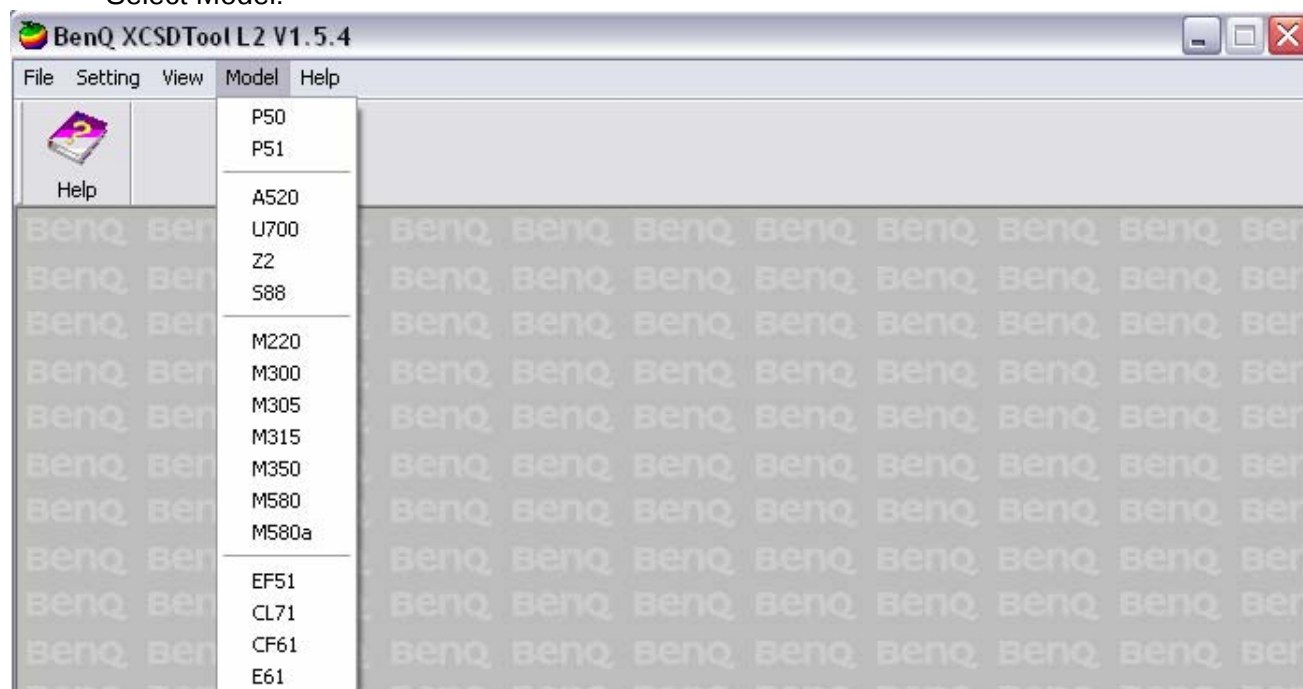
Start "setup.exe" file and follow the instructions.

The installer creates a shortcut in the start menu bar. Start – Programs – XCSDTool_L2 – BenQS



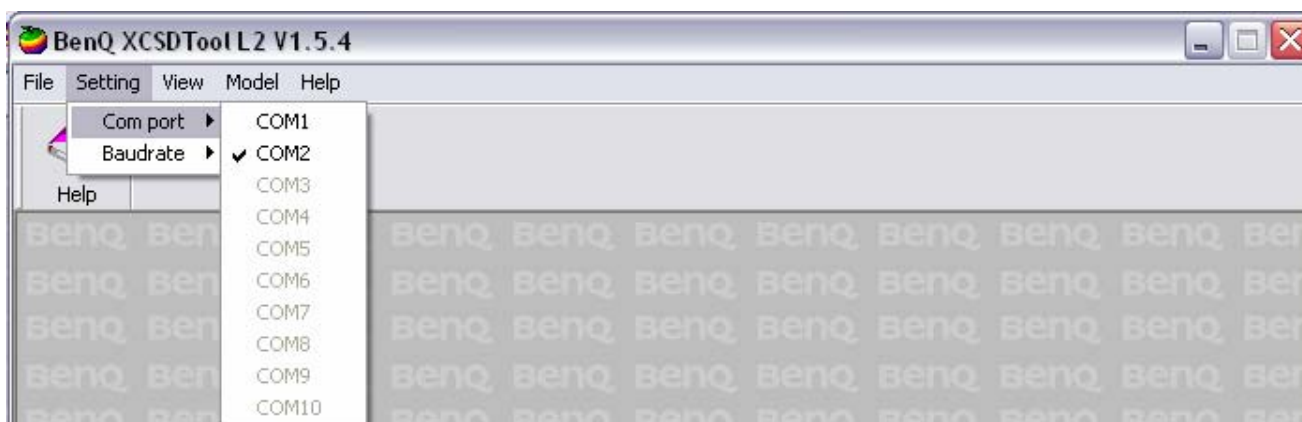
4 Software basic settings

- Start the software (BenQS.exe). The XCSD tool will be shown on the screen
- Select Model:



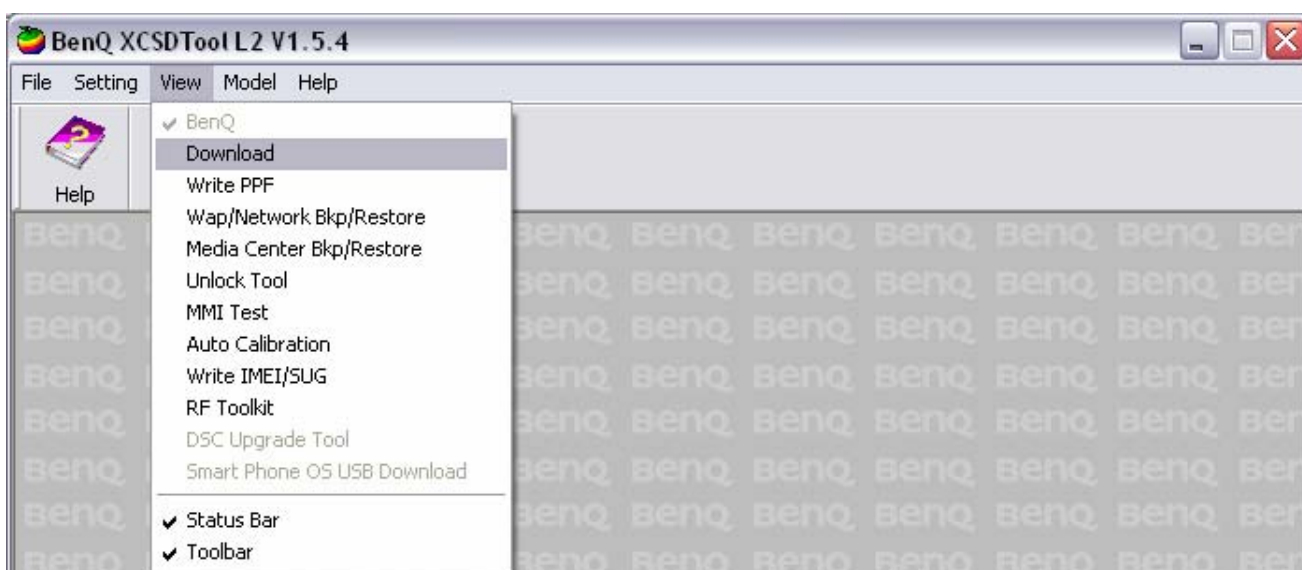
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- Select Com port (Setting – Com port):
(Not required for P50 USB software update)



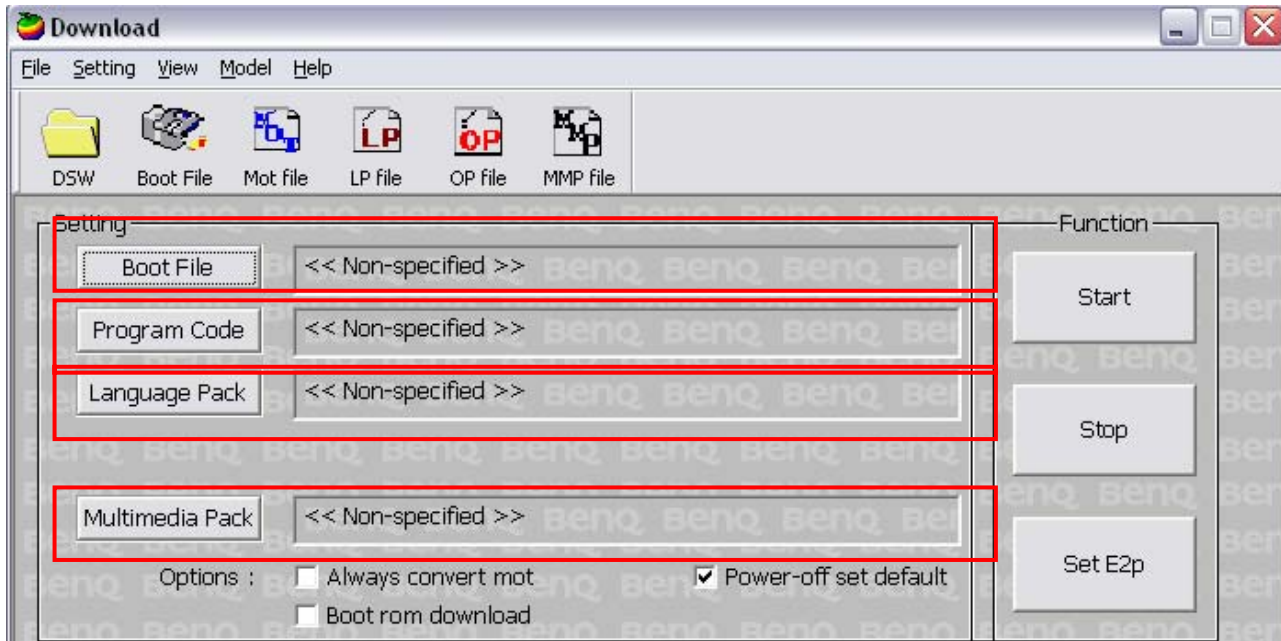
5 Software Download procedure

- Select Download Option (View – Download):

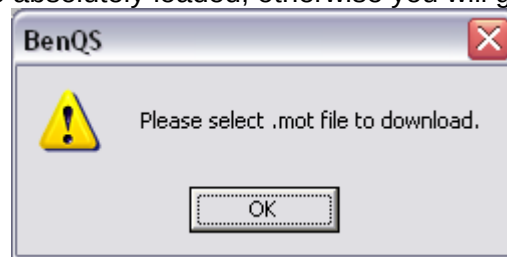


- The only difference between the L2 XCSD and the L1 XCSD Tool is the option of downloading “Boot file” for dead phones (Same as Flash Recovery).

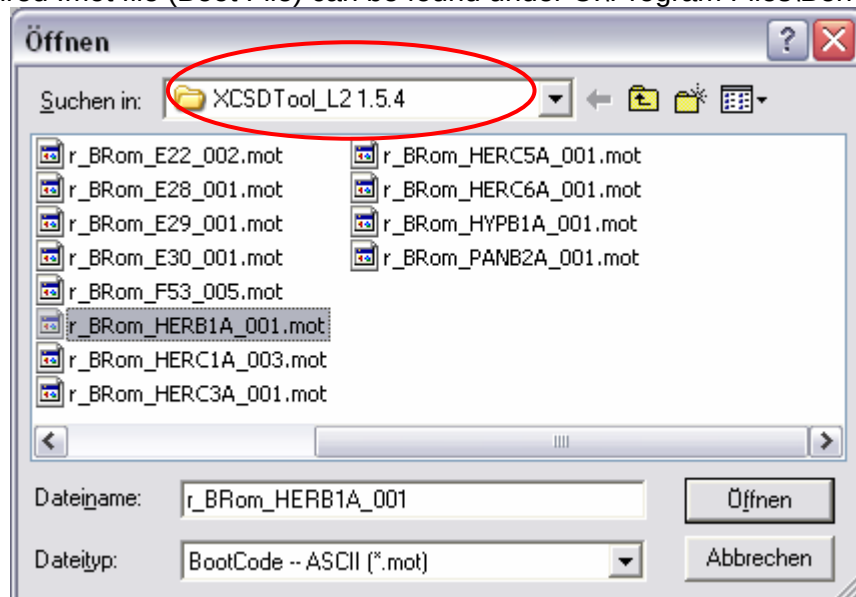
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- The Boot File should be loaded only if the phone cannot power up (dead phone).
- If this Boot File is loaded, the option "Boot rom download" **has to be activated**, and a Program Code has to be absolutely loaded, otherwise you will get an error message.



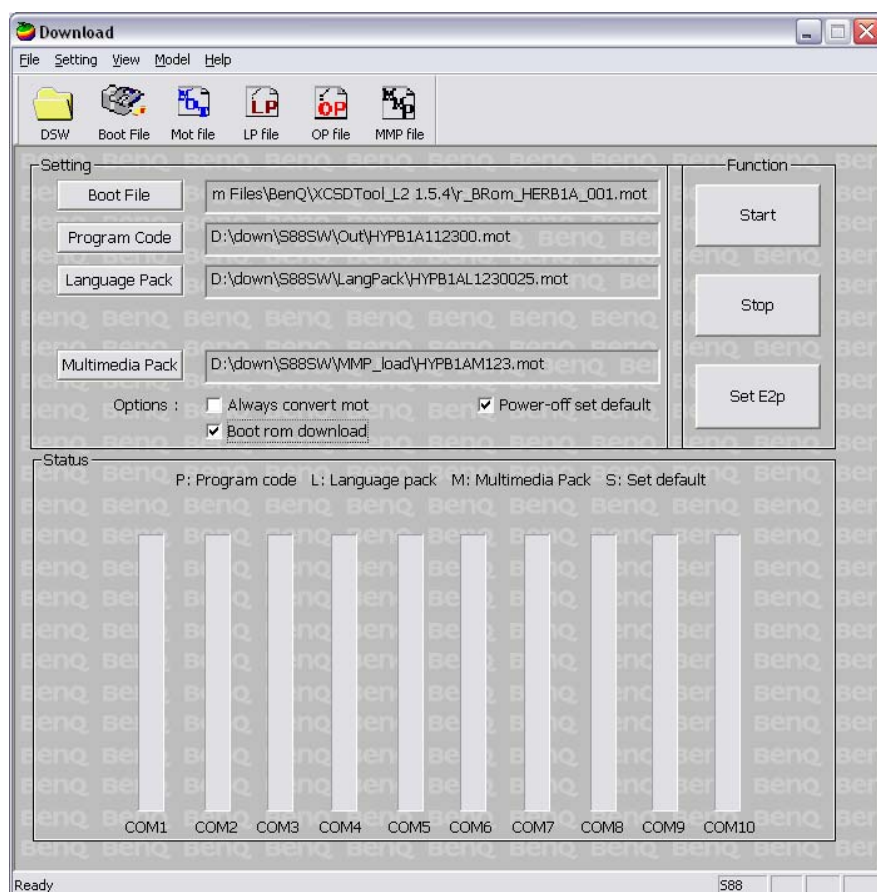
- The required .mot file (Boot File) can be found under C:\Program Files\BenQ\XCSDTool_L2



- Select
Boot File (example: r_BRom_HYPB1A_001.mot)

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Program Code (example: HYPB1A112300.mot)
Language Pack (example: HYPB1AL1230025.mot)
Multimedia Pack (example: HYPB1AM123.mot)



Status bar colour scheme:

Yellow	waiting for update
Blue	update in progress
Red	error occurred
Black	Comport not available
Green	Update successful

- Connect mobile phone with data cable. Phone must be switched off. Click on “Start” button and press the power on button shortly on the handset to start the download. **(Only for AP75)**
- Click on “Start” button and connect the mobile phone with data cable to start the download. Phone must be switched off. **(For all the other models).**
- During download process status bar shows the state of the process of P = Program code, L = Language file and S = Set default (if activated). After successful SW download, the status bar of the used Com port is changed to green.

Erase of customer data:

Select the “Power-off set default” option to erase all customer data of the phone during the download process.

- Click the “Set E2p” to erase the customer data without software update.

SW files naming rules:

Boot File	r_BRom_HYPB1A_001
Program Code	HYPB1A112300

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Language Pack **HYPB1AL1230025**
Multimedia Pack **HYPB1AM123**

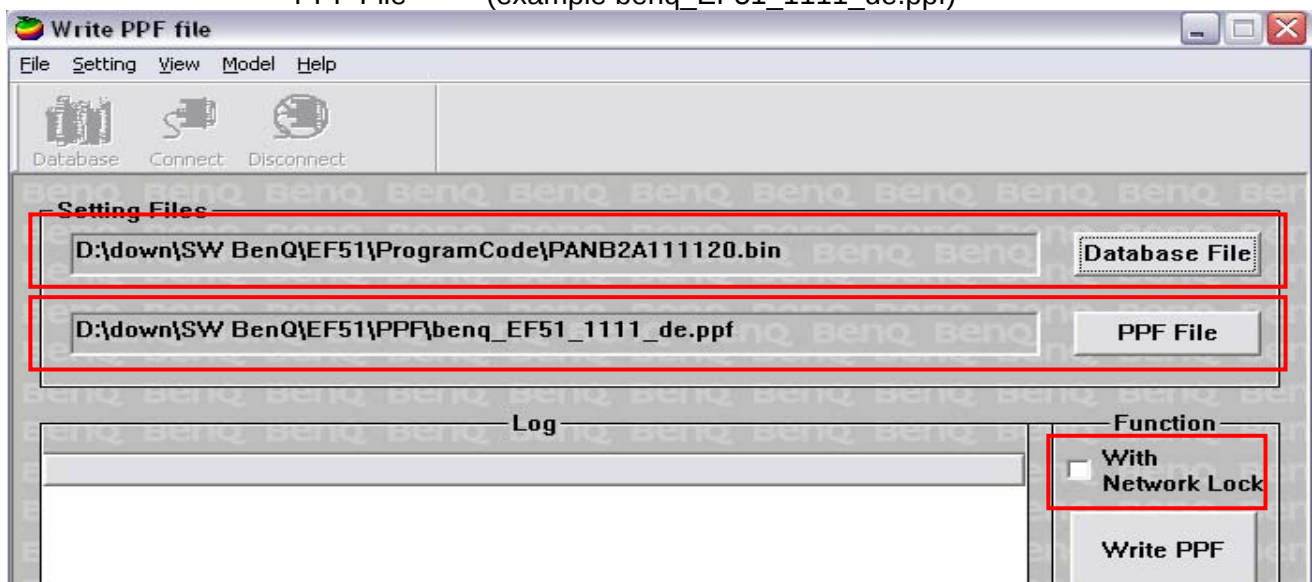
HYPB1A Project name
123 Program Code
L Language Pack
123 Version
M Multimedia Pack
00/25 Program Code ID

6 Download PPF (Handset configuration)

- Select write PPF option (View – Write PPF):



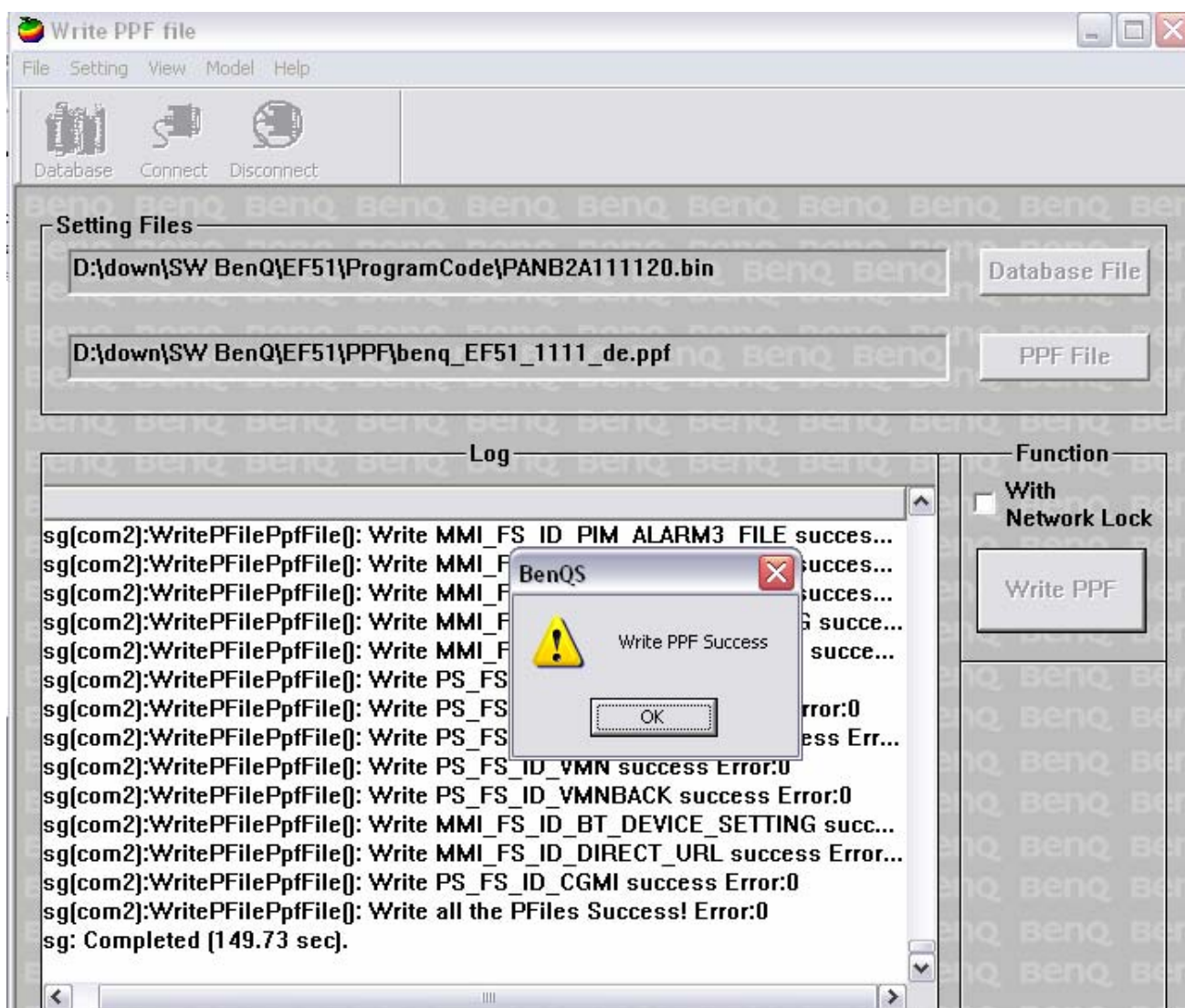
- Select Database File (example: PANB2A111120.bin) and PPF File (example benq_EF51_1111_de.ppf)



- Database File: Can be found under Programcode or Out folder depending on the model.
- PPF File : File containing operator or retailer specific settings
- With Network Lock : This option is without effect

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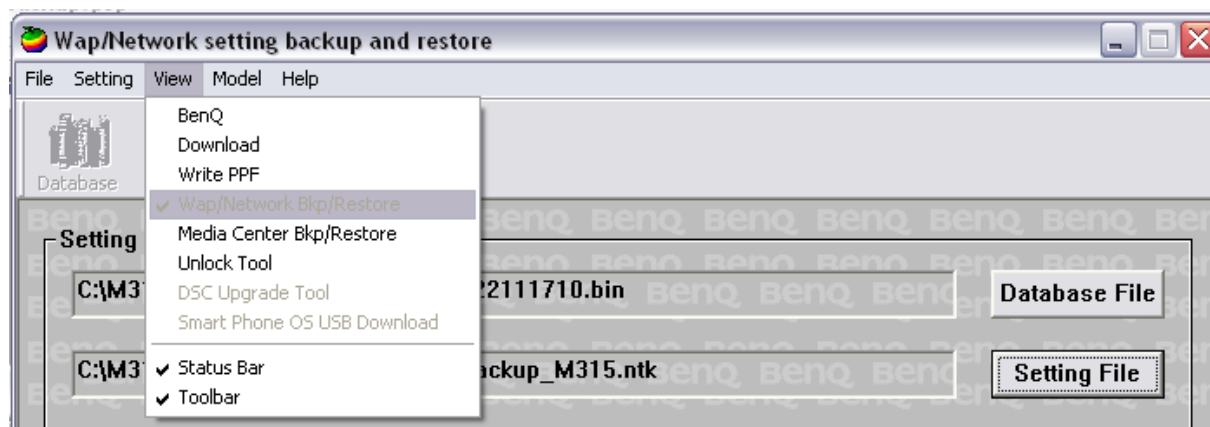
- Connect mobile phone with data cable. **Phone must be switched on.** Click to “Write PPF” button to start the process.
- Confirmation about successful write of PPF appears after process is completed.



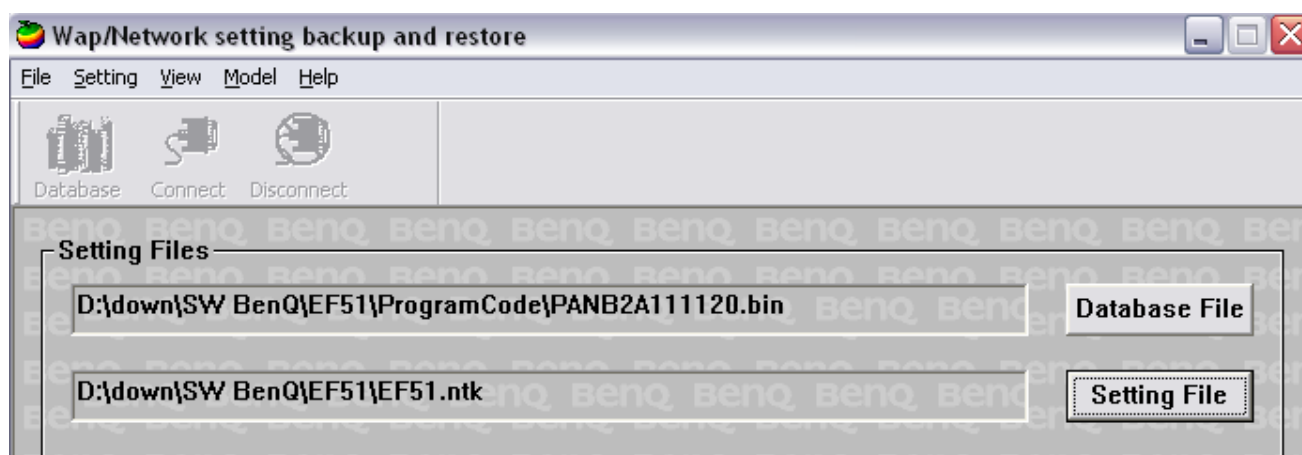
7 Backup and Restore of Wap and Network settings

- Select Back and Restore of Wap and Network settings option (View – Wap/Network Bkp/Restore):

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- Select Database File (example: E2211710.bin) and Setting File (create new txt file and rename it to ntk file for settings backup)



- Connect mobile phone with data cable. Phone can be switched on or off.
- Click to "Backup" button to start the transfer the settings into the selected file.
- Click to "Restore" button to start the transfer from selected file into handset.

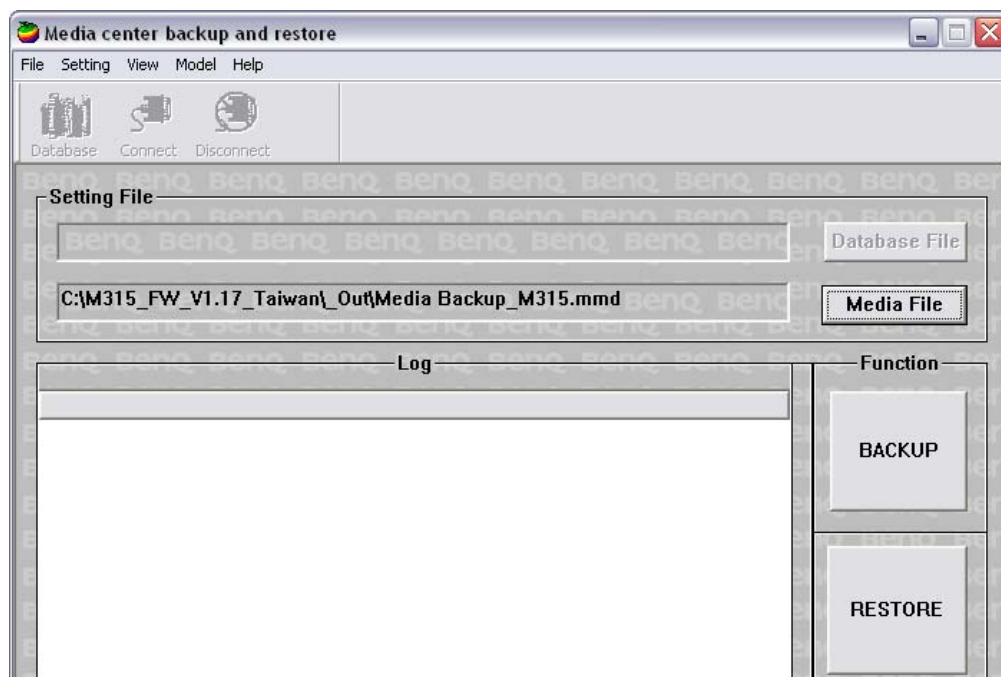
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8 Backup and Restore of Media Center content

- Select Back and Restore of Media center (View – Media center Bkp/Restore):



- Select **Media File** (create new txt file and rename it to mmd file)

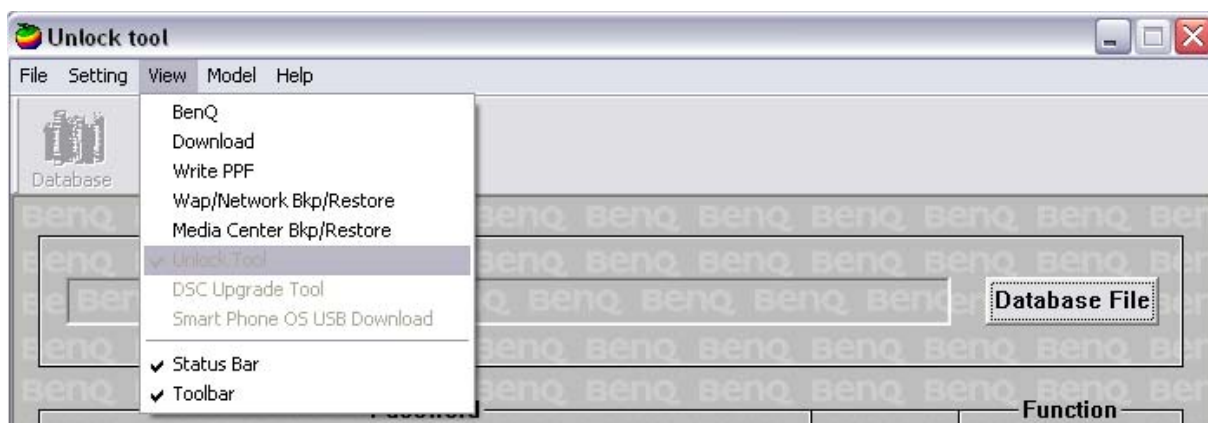


- Connect mobile phone with data cable. Phone can be switched on or off.
- Click to “Backup” button to start the transfer the settings into the selected file.
- Click to “Restore” button to start the transfer from selected file into handset.

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9 Unlock Tool

- Select Unlock tool function (View – Unlock Tool):

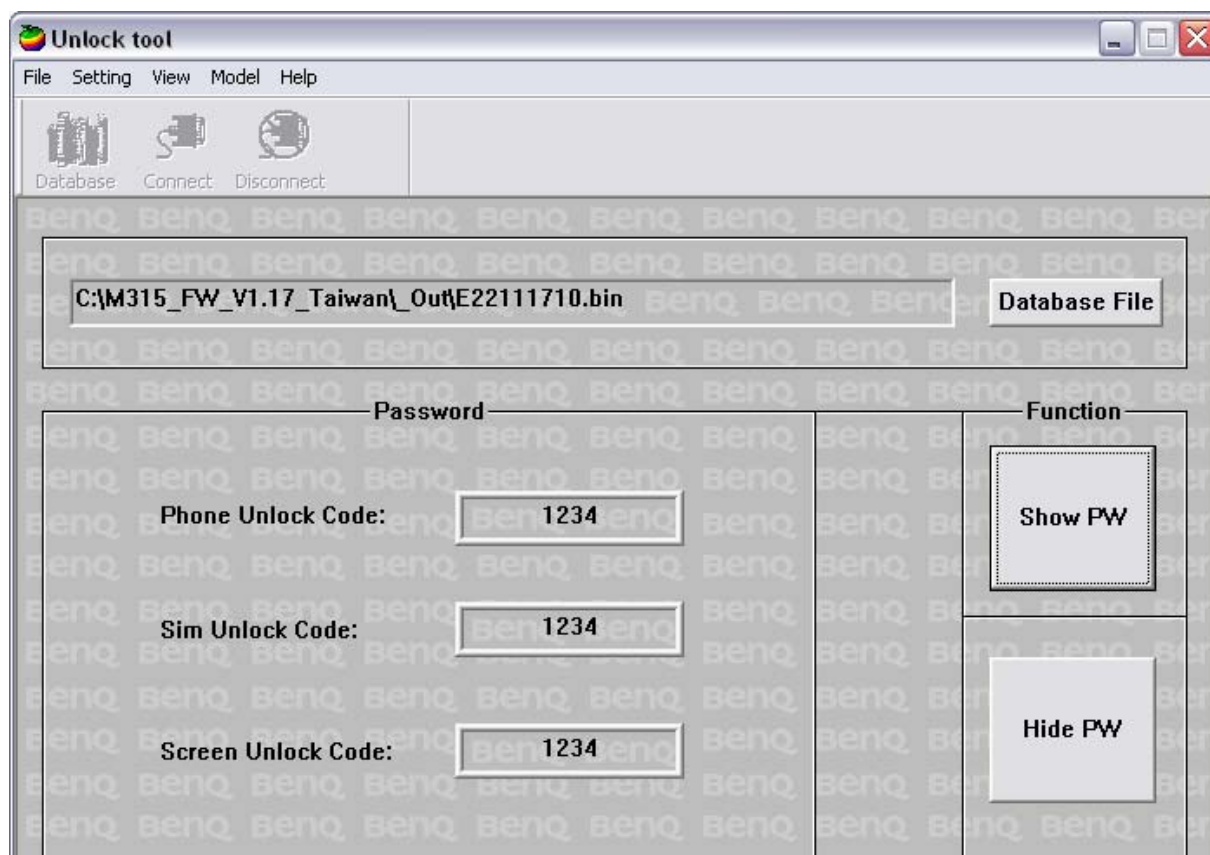


Select Database File (example: E2211710.bin)



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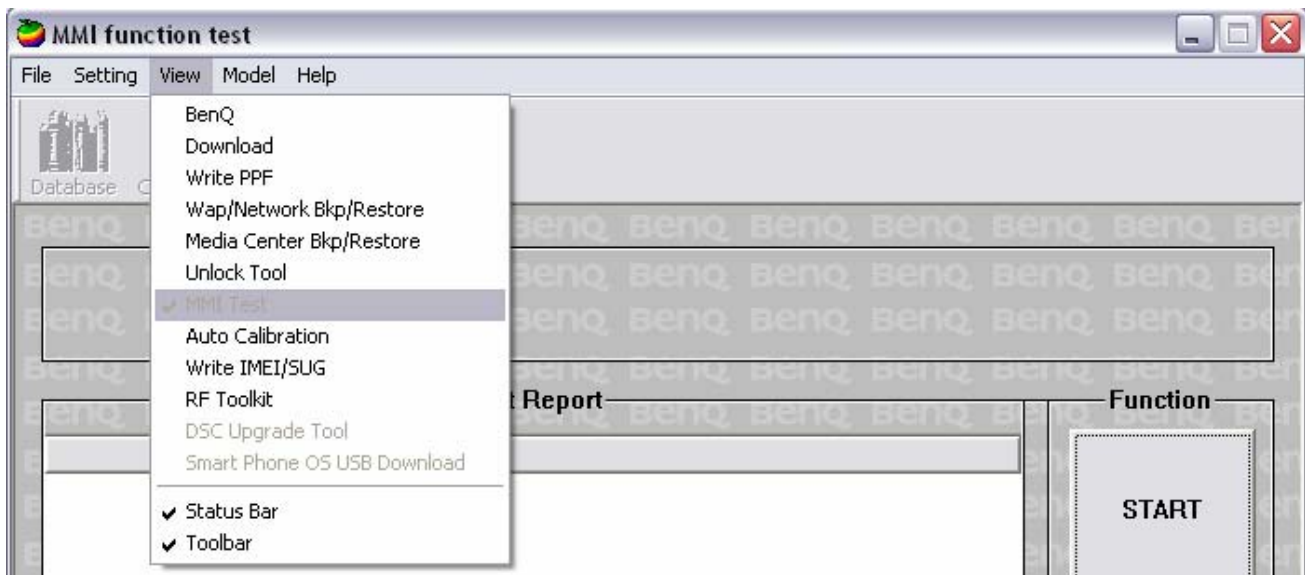
- Click to “Show PW” button to get the codes.
- Unlock the codes in the mobile phone menu.
- Click to “Hide PW” button to hide the codes.



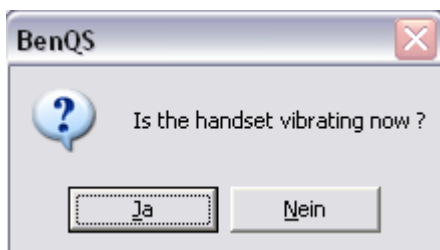
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10 MMI Test

- Select MMI Test function (View – MMI Test):



- Switch the mobile on.
- Click the START button.
- MMI Test will check : Vibrator, Loud Speaker, Back Light, Digital Camera, RTC (Real Time Clock)



Vibrator Test



Loud Speaker Test

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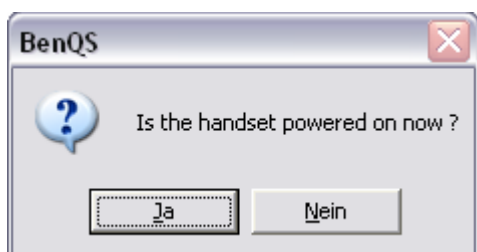
Back Light Test



Picture



Picture Test



RTC Test



Success MMI Test

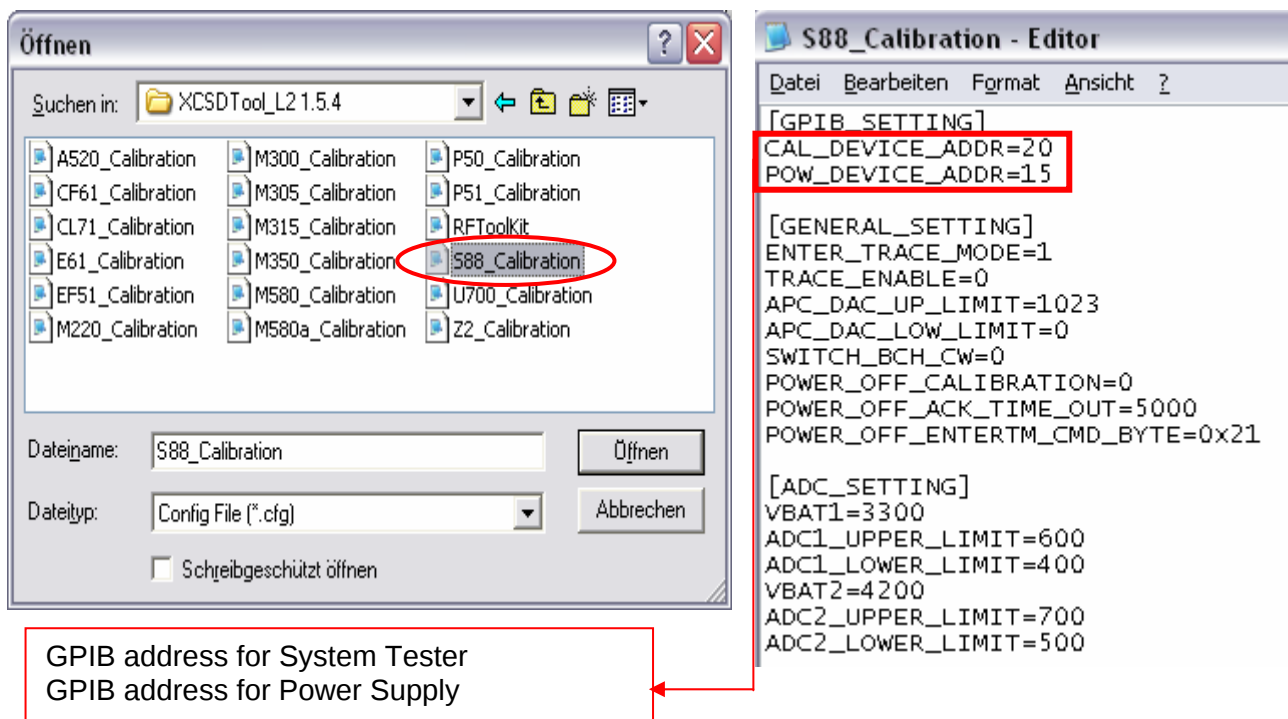
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11 Auto Calibration

- Select Auto Calibration function (View – Auto Calibration):
- For this operation, only the CMU200 and the Agilent 8960 are supported.



- Select the required Config File (example: S88_Calibration.cfg)
- Before loading the configuration file, open it with a text editor (Notepad)

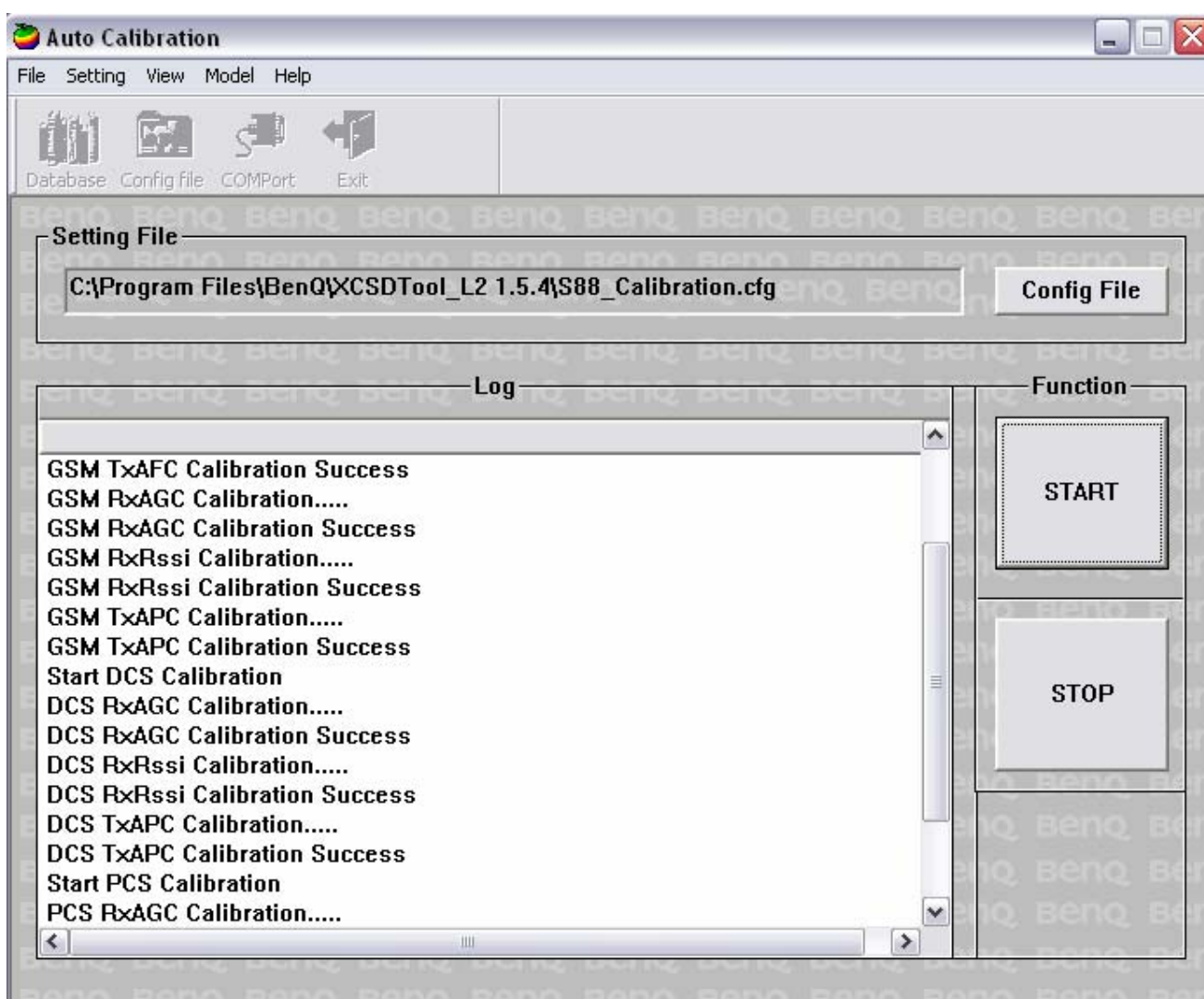


- Change the GPIB setting of the CMU200 in the .cfg file and save it, before loading it into the tool

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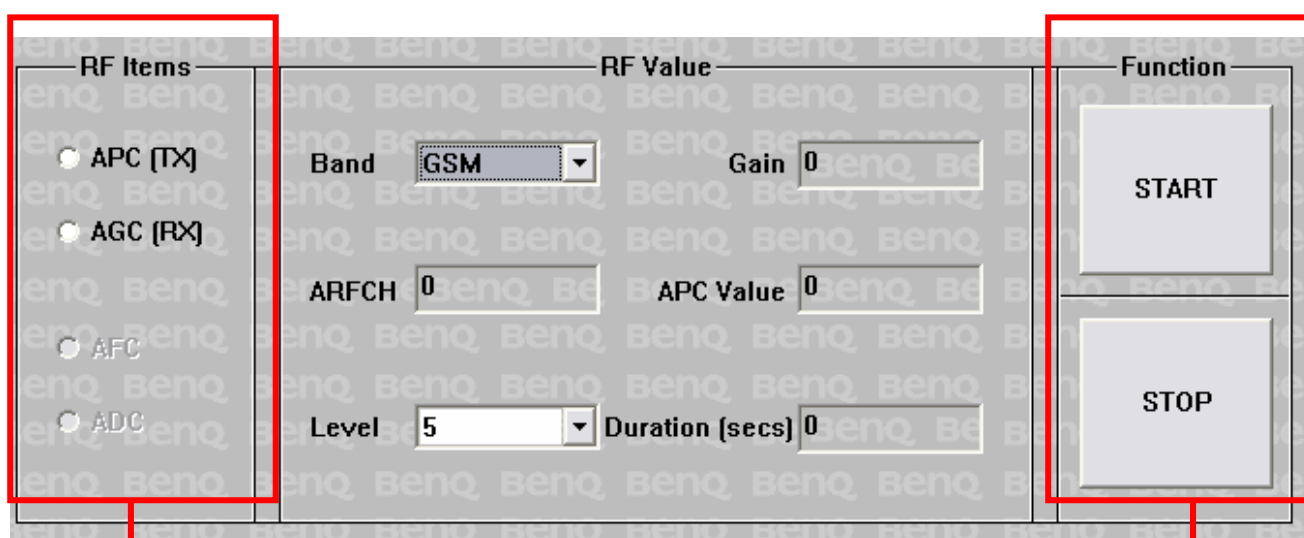
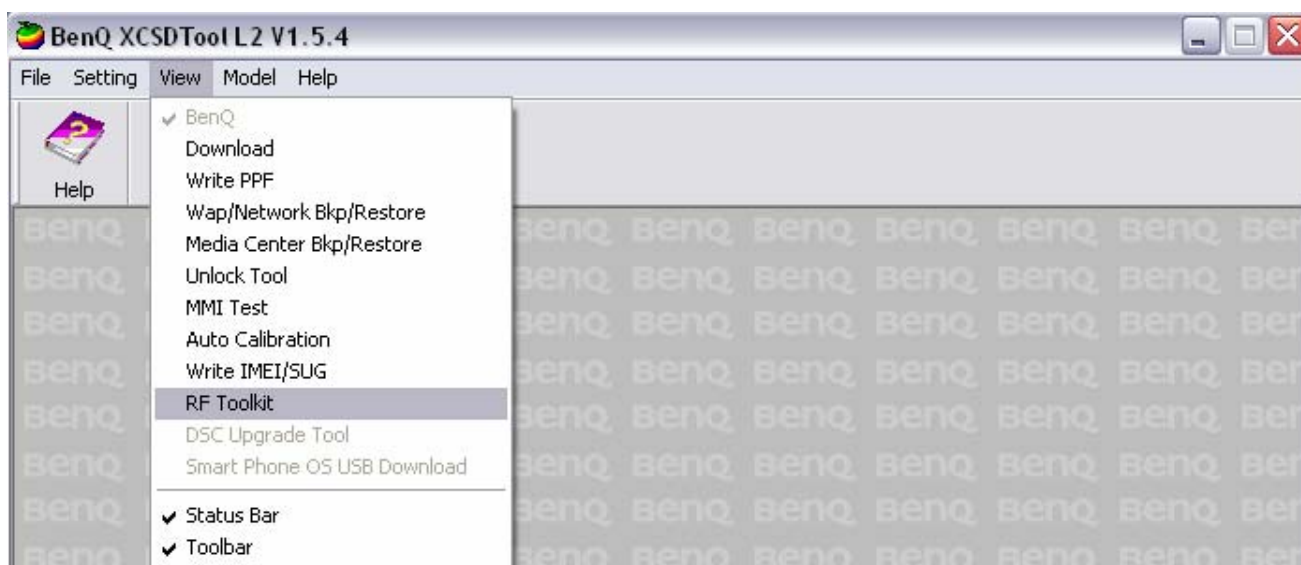
- Switch on the phone
- Press the Start button and the calibration will automatically start.



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12 RF Toolkit

- Select RF Toolkit from the menu.



Select which path (TX/RX) you want to activate:
APC: Automatic Phase Controller
AGC: Automatic Gain Controller

- Select RF Toolkit from the menu.

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RF toolkit

File Setting View Model Help




Database Connect Disconnect

RF Items

- ☒ APC (TX)
- ☐ AGC (RX)
- ☐ AFC
- ☐ ADC

RF Value

Band
Gain

ARFCH
APC Value

Level
Duration (secs)

Function

START

STOP

RF Report :

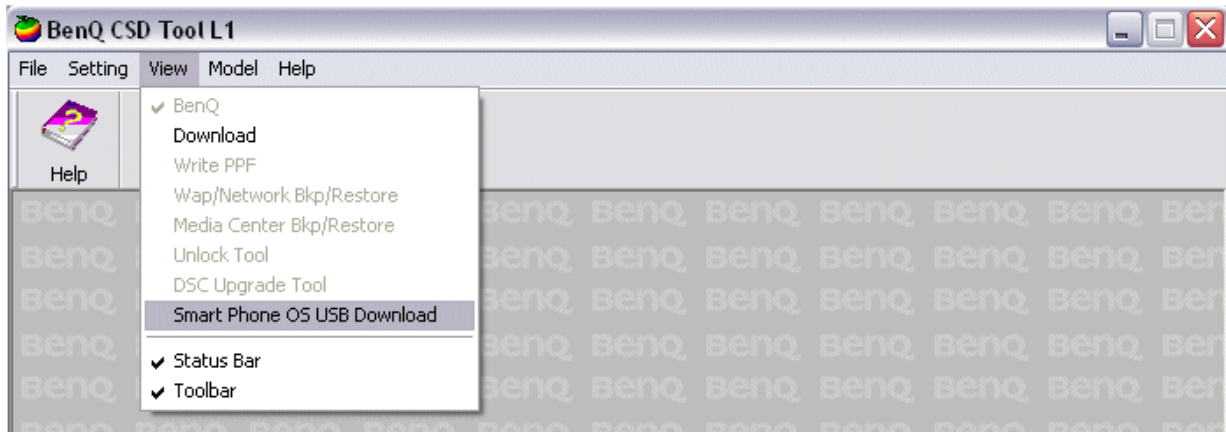
Sending Tx command...52 s
Sending Tx command...53 s
Sending Tx command...54 s
Sending Tx command...55 s
Sending Tx command...56 s
Sending Tx command...57 s
Sending Tx command...58 s
Sending Tx command...59 s
Sending Tx command...60 s
Tx command done.
Calibration Success
Total elanse time: 63109 millisecond(s)

Ready

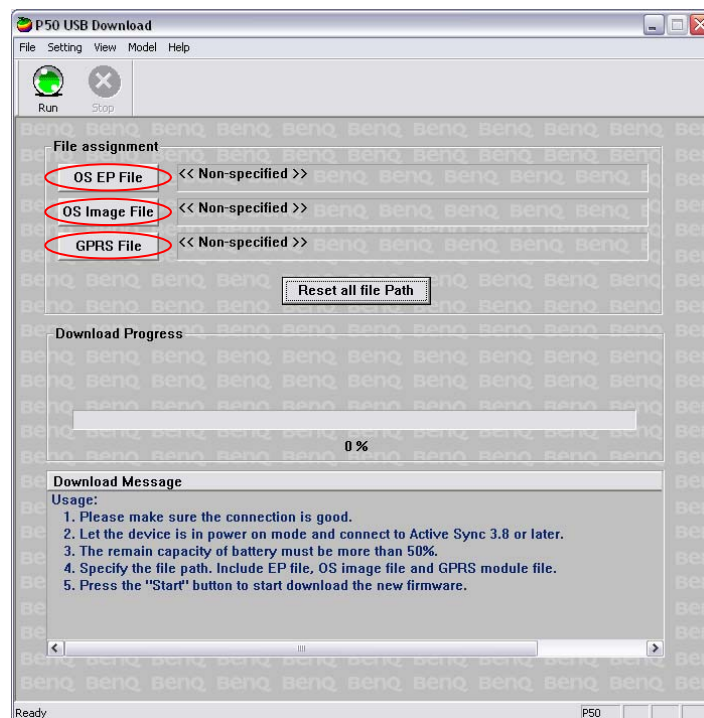
588
NUM

13 Software Download procedure P50

- Select Smart Phone OS USB Download Option (View – Smart Phone OS USB Download):
(Model must be selected –see chapter 4)



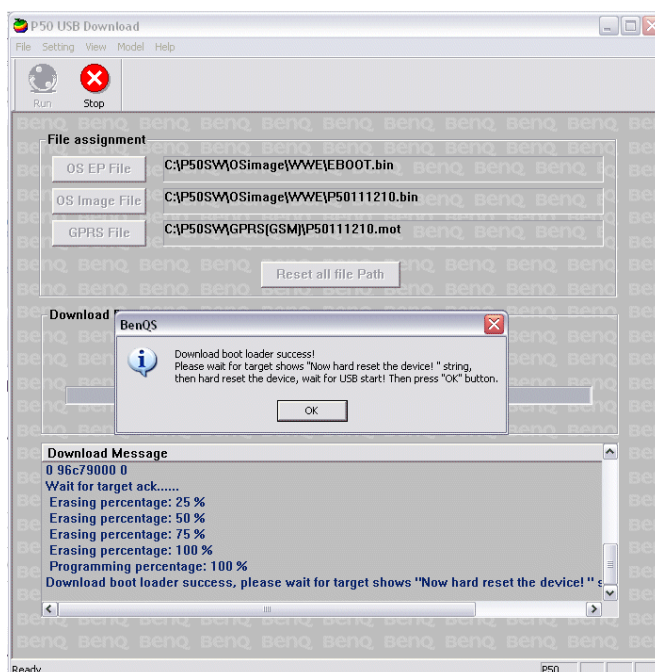
- Select
 - Boot loader - OS EP File (example: EBOOT.bin) and
 - Windows Mobile SW - OS Image File (example P50111210.bin)
 - Modem Software - GPRS File (example P50111210.mot)



- Connect mobile phone with the USB data cable. Phone must be switched on. Active Sync Software detects the device, select the relationship (**select always Guest**) for the mobile phone. Click on “Run” button to start the download.

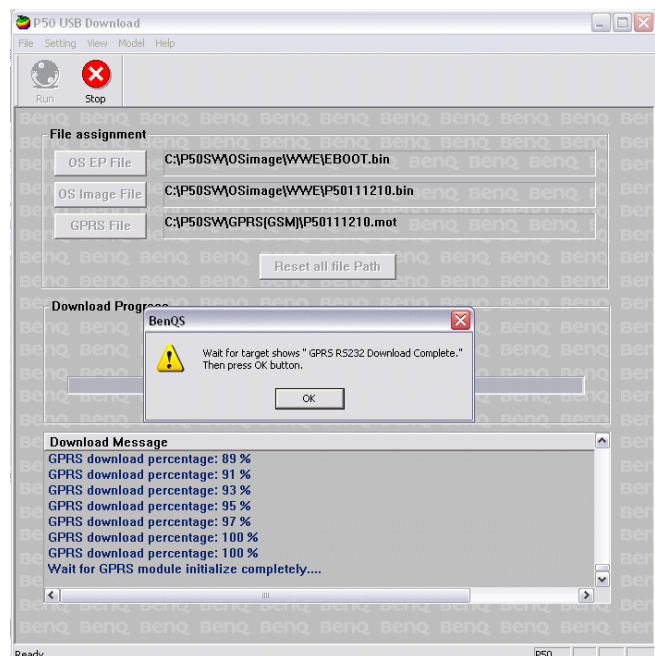
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- After successful boot loader download, hard reset the device and continue the process when “USB Connected” is shown in the device display



Insert a pin into the recess to trigger the hard reset button

- After successful GPRS firmware update, do not continue the process before “GPRS code download completed” is shown in the device display



- After successful OS firmware update, “OS Image download completed” is shown in the device display and the update process is completed. Disconnect the device and restart the phone.

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