Programmes After Market Services NPE-4 Cellular Phones

# 4 – Service Software

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# Service Software

### Phoenix

Phoenix is the software tool for flashing, tuning and testing Nokia cellular phones.

It has been created for Win32 environment with COM technology and it replaces all existing applications such as WinTesla.

#### Supported Operating Systems

Windows 95, 98, 2000 and NT 4.0 (SP4).

#### Hardware requirements for using Phoenix

Minimum:

Processor 233 MHz, RAM memory 64 MB, disk space 50-100 MB.

Recommended for Windows 2000:

Processor 700 MHz, RAM memory 512 MB, disk space 50-100 MB.

#### Introduction

This section briefly describes how to install the Phoenix software and includes some basic information on how to use the program. For more detailed information, please refer to Phoenix's **Help-files**. Each feature in Phoenix has its own Help function, which can be activated while running the program.

Press the *F1* key or the feature's Help-button to activate a Help-file.

#### **Installing Phoenix**

- 1 Close all programs before installing Phoenix.
- 2 Remember to attach dongle before starting installation.
- 3 Read the release notes, it has useful information about the Phoenix version.
- 4 Since Phoenix is made of components you may install each Phoenix installation package on top of each other Setup will make sure that the new compnents are not replaced by old ones
- 5 Install Phoenix by executing the Phoenix installation package and follow the instructions on the screen.
  - Note: Afterwards all components must be registered. This is done automatically and takes 5 to 10 min.

## Login



## Adding users



# Products



## Connections

Connections is a way of describing how a product is connected to Phoenix, i.e. what protocol should be used.

Manage Connections	×	Add connections
Priority list: FPS8 COM1 FBUS NO CONNECTION	Apply Revert Add ▼ Edit <u>H</u> elp	Use the arrow keys <b>to bring</b> <b>the wanted</b> connection to the top of the list
· · · · · · · · · · · · · · · · · · ·		Kemember to apply changes

File -> Manage Connections brings up this dialog:

# Adding/editing connections

Select mode 🔀
Mode ♥ Wizard ♥ Manual Select mode to use. If your system has a connection wizard installed you can use it to add a connection, else you have to use manual mode.
< <u>B</u> ack. <u>N</u> ext > Cancel Help

FPS-8 used as example

Select media				×
_ <u>M</u> edia				
FBus			<b>•</b>	
FBus				
MBus EDC 0				
IRDA				
	< <u>B</u> ack	<u>N</u> ext>	Cancel	Help

Set parameter	×
PORT_NUM  Communication port number	
< <u>B</u> ack <u>N</u> ext> Cancel	Help

Set parameter				×
-COMBOX DE	E MEDIA			
FBUS			<u> </u>	
MBUS				
	< <u>B</u> ack	Finish	Cancel	Help

### **Connection tips**

- Use FBUS.
- If FPS-8 is used, used FBUS as COMBOX\_DEF\_MEDIA.
- If a connection is lost (e.g. the FPS-8 box is changed), select File -> manage connections and press the "Apply" button.

#### Profiles

#### Saves

- All open windows
- The position of the windows
- The selected product

#### Does not save

- Open connection
- Values of e.g. phone information

🏀 Phoenix			
<u>File Edit View Product Flashing Tools Wind</u>	dow <u>H</u> elp		
	🔀 Phone Information		
	Items	Information	Update
	Production serial number	033050858	Heb
	Product code RF / system module code	0505903	
	Basic production code	0505333	
	Order number		
	Product specific data	10115000 Read error	
	MCU SW version	V 1.70 (07-Nov-01)NHM-8(c) NMP.	
	HW version	0302	
K FPS-8 Flash			
Files		Elash	
Image File: C:\Program Files	Nokia\Phoenix\Products\NHM-8\nhm8nxp1.		
PPM File: C:\Program Files	Nokia\Phoenix\Products\NHM-8\nhm8nxp1.	70a <u>H</u> eip (P. <b>J</b> A	
Parametere			
Save Settings	utomatic Flashing 📃 Manual <u>S</u> elec	stion	
Log flathing LPT	Port: 1 🔽 🗖 Save PPC		
Beading product type			
Reading product code			
Reading DSP Version Reading PSN			
Get flash file names Reading flash settings from file(s)			
Logical product changed			
innysical productionanged		<b>•</b>	
Ready	Γ	No Product	
			-, , , , , <u></u> ///
		<b>P</b>	



Note: The last used profiles are also shown in the filer menu.

#### Tips about profiles

- Use profile for making standard setups of Phoenix.
- Profiles are saved in files. These files can be shared with other users.

# FPS-8

#### Introduction

- Used for flashing and writing serial numbers.
- AKA prommer.
- The FPS-8C is a so called parallel version of FPS-8 (is able to flash 8 phones at a time).
- SW in the box:

SW type	Prommer mode when updating	
FPGA	Con income de	
Application	Service mode	
Secondary boot		
Algorithm	Normai mode	



FPS\_8 front panel

#### FPS-8 software upgrade

SW upgrades for the FPS-8 comes in a single file installation package.

Install this package. It will install to the "Flash" subdirectory in the Phoenix directory.

When Flashing -> FPS-8 / FPS-8C maintenance is selected, this dialog is shown (if the FPS-8 connected has older SW):

Prommer sw update 🛛 🗙			
New version of prommer software is available! Do you want to update?			
Version 01.00.049			
Do not show this dialog again			
Yes No			

K FPS-8 Maintenance		×
FPS-8 FPS-8C		
FPS-8         FPS-8C           FPS-8 Info         71040           S/N         71040           HW         SF11_09           Flash size         16MB           Free Flash (b)         16777216           SRAM size         8MB           Free SRAM (b)         8388608           Boot sw         B0.09           FPGA         fpga0306.mcs v0306           Application         A0.48	Issh box files         File name       Type       File ID       Version       Siz ▲         upp_v2_28h160_bt.fia       Algo       2       001.006.000         upp_v2_29bdl32_fia       Algo       3       001.006.000         upp_v2_29bdl32_bt.fia       Algo       4       001.006.000         upp_v2_29bdl32_bt.fia       Algo       5       001.006.000         upp_v2_49bp1604.fia       Algo       6       001.006.000         upp_v2_bust.fia       Algo       7       001.006.000         upp_v2_bust.fia       Algo       8       001.006.000         upp_v2_bust.fia       Algo       9       000.003.000         upp_liku_28f160.fia       Algo       10       000.003.000         upp_ud2_v2_bust.fia       Algo       11       002.000.002         upp_ud2_v2_bust.fia       Algo       11       002.000.002	
TEST OK       Details         Progress info       Version: HW SF11_09         Getting file information       File information         File information got       HW ver:SF11_09,         FLASH size:16MB,       SRAM size:8MB,         Serial nbr:71040,       SRAM memory used 0 of 8388608. 8388608 byte         FLASH memory used 0 of 16777216. 16777216	tes left	

"Update" button: Updates the SW in the FPS-8. Select the fps8upd.ini file in the "Flash" directory.

"Delete" button: Deletes the algorithm or secondary boot file selected in the list.

Note: Only one file can be deleted at a time.

"**Report**" button: Creates a file which describes the FPS-8 setup. Attach this file when reporting errors.

"Reset" button: Resets the FPS-8. Not a common thing to do.

If you encounter problems when updating the FPS-8, select "Log file write". This will create a log file (fps8.log) when writing files to the FPS-8. Attach this file when reporting errors.

Files can be uploaded to the FPS-8 manually by **right-clicking** on the "Flash box files" list. This will bring up this menu:



Flashing -> FPS-8 flash brings up this dialog:

16 FPS-8 Flash	_ 🗆 🗵	
FIes         Image File:       C:\Program Files\Nokia\Phoenix\Products\NHM-8\nhm8nxp1.700         PPM File:       C:\Program Files\Nokia\Phoenix\Products\NHM-8\nhm8nxp1.70a         Parameters       Save Settings       Automatic Flashing       Manual Selection         Log flashing       LPT Port:       Save EPC       Save EPC         Output       Reading data from phone       Reading product type       Reading DSP Version         Reading DSP Version       Reading PSN       Get flash file names       Save EPC	<u>F</u> lash <u>H</u> elp	Phoenix automatically finds out which files to flash.
Reading flash settings from file(s)		

"Save settings": Backup/restore user settings (Phonebook, WAP settings, etc.).

"Automatic flashing": Starts the flashing automatically (when a new product is scanned or the dialog is opened).

"Manual selection": Select flash files manually.

**"Log flashing"**: If you encounter problems when flashing, check this. it will create a log file (fps8.log) when flashing. Attach this file when reporting errors.

"LPT Port": The parallel port where the FPS-8 is connected.

"Save PPC": Saves the PPC before flashing.

## Manual flashing

Flash File Selec	stion	×
Phone Informat	tion	OK
Product:	NHM-8	Cancel
Product Code:	0505903 💌	
		<u>H</u> elp
ļ		
- Files		
Image File:	okia\Phoenix\Products\NHM-8\nhm8nxp	1.70 <mark>0 <u>S</u>et</mark>
PP <u>M</u> File:	okia\Phoenix\Products\NHM-8\nhm8nxp	1.70a S <u>e</u> t
	Select files to flash	

#### Menus

For your information, the menus in Phoenix:

# File menu:





#### Menus left out

"Edit", "Window" and "Help". These are as standard Windows.