

PAMS Technical Documentation

RPM-1 Series Transceivers

Service Software

AMENDMENT RECORD SHEET

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Service Software Instructions for RPM-1

General

WinTesla software is used to perform service functions of the RPM-1. This SW consists of WinTesla service software and product specific DLL's (Dynamically Linked Libraries). To run WinTesla SW, a parallel port software protection device (PKD-1) has to be connected. TDF-4 box must be connected to PC as described in tuning instructions chapter. If only controls are necessary, RPM-1 can be controlled using equipment setup described in the WinTesla RS chapter. The test functions send test messages from PC to MS and receive results and show them in the PC display. The messages to the phone can be sent via DAU-9P cable.

Note: if this software is to be run on laptops, the power saving feature **MUST** be switched off.

Hardware requirements for Windows 3.1x

The recommended minimum hardware standard to run Service Software is any computer which is 386 33 MHz or greater with at least 4 MB of memory and VGA type display (640 x 480). This assumes that only the WinTesla with After Sales Support Modules is active, i.e. other Windows packages are not running in the background.

Hardware requirements for Windows 95

The recommended minimum hardware standard to run Service Software is any computer which has a Pentium processor, 8MB of memory and meets HW requirements recommended by Microsoft.

Software Environment of the Support Modules

The Service Software user interface is intended for the following environments: Microsoft Windows 3.1x (enhanced mode) and Windows 95 environment running in enhanced mode. Support for Microsoft NT may be added, if required. Detailed information about Windows and application usage can be found from the Microsoft Windows Version 3.1 Users Guide chapter one (Windows Basics) and chapter two (Application Basics).

As an ordinary Windows application, the main idea in the user interface is that selections are made with menus, push buttons and shortcut keys. Selections can be done by using keyboard and/or mouse. There is always a status bar displayed at the bottom of the main window which contains information about current actions.

Required Servicing Equipment

- Computer: At least IBM 80386 or compatible with one unused serial port (COM1 or COM2)*, one parallel port (LPT1), hard disk recommended

- Operating System: DOS Version 3.2 or later
- If PCLStart in use: DOS 6.22 and IBM 80486 or compatible
- Display: Any 80–character text display
- Service software version for 3.5" disk (product code: 0774080)

The rest of the needed service equipment depends on what kind of operations service personnel wants to perform. Different configurations are described later in this chapter.

*) Note: A number of PC's of an older generation use the Intel, National Semiconductor, or United Microelectronics IC 8250 as the serial port UART. This is a comparatively inefficient circuit for current purposes and does not necessarily support the M2BUS adapter at 9600 baud. The newer UART's NS16450 and NS16550AF of National Semiconductor offer solutions for these problems.

Installation

Mechanical Connections

Caution: Make sure that you have switched off the PC and the printer before making connections.

Caution: Do not connect the PKD-1 key to the serial port. You may damage your PKD-1 !

The software controls the RPM-1 via a separate adapter connected to the serial port of the PC, and to the JBS-23 bottom connector (DAU-9P cable).

Attach the dongle PKD-1 to the parallel port 1 (25-pin female D-connector) of the PC. When connecting PKD-1 to the parallel port, be sure that you insert the computer side of the PKD-1 to the PC (male side). If you use a printer on parallel port 1, install the PKD-1 between the PC and your printer cable.

The PKD-1 should not affect devices working with it. If some errors occur (errors in printing are possible) please try printing without the PKD-1. If printing is OK without the PKD-1 please contact your dealer. We will offer you a new PKD-1 in exchange for your old one.

The program is delivered on a diskette and is copy protected by the PKD-1. It must be present in parallel port when using Service software.

Installing the software on PC Hard Disk

The program can also be installed on the hard disk, which is recommendable to obtain a maximum data access rate.

Keep the original diskette safe to enable upgrading of the program !

If you plan to use PCL Start service software, you must install it before installing Service software, see PCL Start installation instructions.

To install the new Service software program, follow the steps below:

1. insert the new Service software diskette
into drive A: of your computer
2. start Windows, and open File Manager
log into drive a: *type **A:** and press <Enter>*
3. start INSTALL.EXE and *type **C:** and press <Enter>*
install Service software to drive C:

To install product specific DLL's, take your RPM-1 DLL disks, and repeat the steps above.

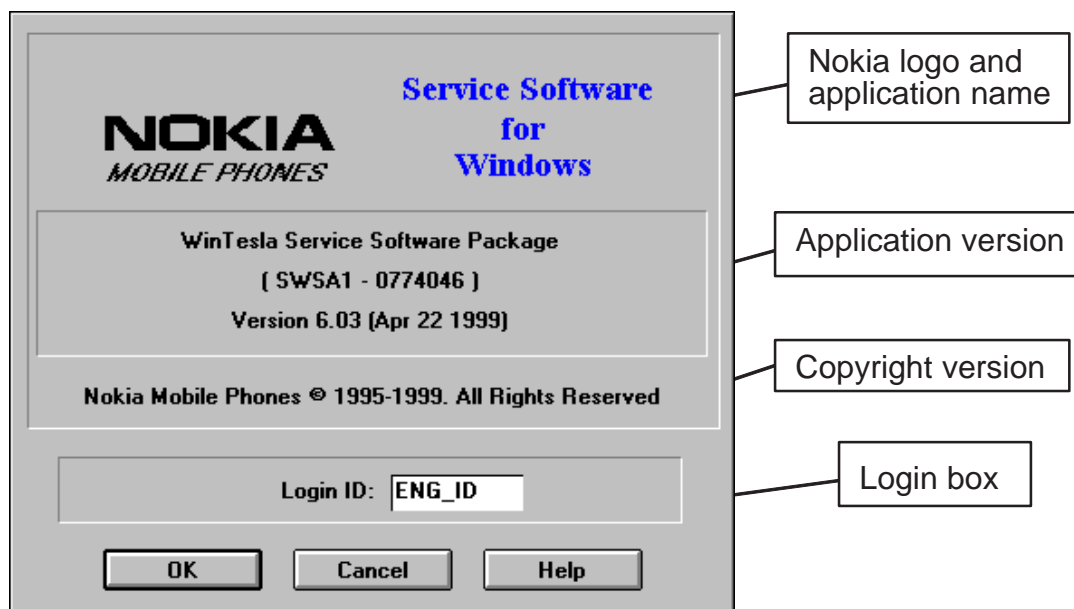
Common Properties of the User Interface

This chapter describes how the User Interface CLF must appear to the user.

The User Interface **MUST** be capable of being driven without the use of a mouse, as the service engineer rarely has space on the bench to use a mouse.

Login Dialog

When the Service Software application is invoked, by checking on the Service Software icon, the **Login** dialogue box will be displayed on the screen.



Nokia logo and application name bitmap (–)

Displays Nokia logo and name of the application.

Application version static text (–)

Contains the name and version of the application.

Copyright notice static text (–)

Copyright is informed as: "**Nokia Mobile Phones (c) 1995-1999. All Rights Reserved**".

Login Box edit box (–)

The user Login ID edit box, where the user enters his faultlog user name. (See Faultlog User Guide)

OK button (default key)

The user name is stored in memory and the dialogue box is closed. When the dialogue box is closed, the application starts.

Cancel button (ESC)

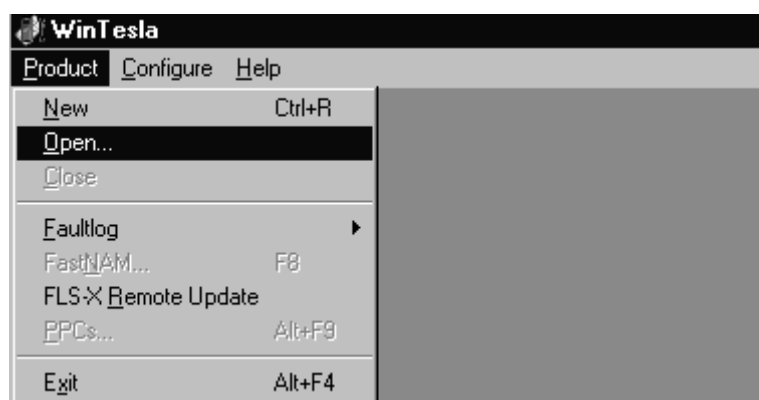
The Dialogue box is closed and application is started, but the Faultlog feature is disabled.

Help button (F1)

Activates the Windows Help application and displays context sensitive Help.

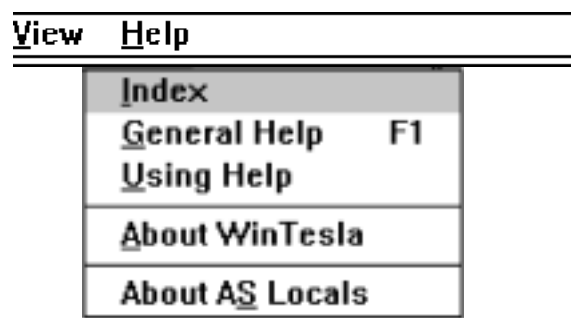
Main Window

When WinTesla opens the basic screen, product specific DLL's must be activated using mouse to select Product → Open and select RPM-1.



Using Help

When DLL's are active, the menu bar contains several items, including help texts, as shown in the picture below.



Instructions for service software use can be found in the help texts. Step by step instructions for complex operations like SW upgrades and tuning can be found in Tuning Instructions.

HW Test Module Extension

This chapter describes the special requirements of HW Test Module Extension of RPM-1.

General

This WinTesla product specific SW (RPM-1 HW) consists of two specific DLL's. HW Test Module Extension software is used to HW line testing and CIS handling functions of the RPM-1. To run WinTesla SW, a parallel port software protection device (PKD-1) has to be connected. All messages to the phone are sent via PC's PCMCIA controller.

Required Servicing Equipment

- Computer: PC with 386 33MHz or higher processor, at least 8 MB of memory. VGA type display and PCMCIA slot.
- A parallel port software protection device (PKD-1).
- Intel PCIC (82365) compatible PCMCIA slot controller. Compatibility of the controller can be checked in Windows 95 by the following way:
Choose from the Start-menu: Start-Settings-Control Panel-System-Device Manager-PCMCIA Socket: "PCIC or compatible PCMCIA controller"
- JBS-23 connection with DAU-9P cable are not needed!

Tested compatible hardware

Today (Oct.1999) the following PC- and laptop-computers are known to be capable to perform HW Test Module Extension SW:

PC with external PCMCIA slot Card Shark II, CURTIS, INC.

IBM Thinkpad 560 (133 MHz)

Toshiba Tecra 730 XCDT

Amendments will be published in Technical Bulletins and Service Bulletins.

Software Environment of the HW Test Module Extension

HW Test Module Extension user interface is intended for the following environments: Microsoft Windows 95 or 98 environment running in enhanced mode.

If there appears any memory conflicts, please do the following:

Memory area D000-D200 exclusion in config.sys:

device=c:\windows\himem.sys

device=c:\windows\emm386.exe X=D000–D200

Login Dialog / Login Box

HW Test Module Extension differs from other RPM–1 service software so that Faultlog is not used. Because of that user do not have to enter his faultlog user name in to the user Login ID edit box.

If you need to do any faultlog markings with HW Extension Module, please use RPM–1 product specific DLL's.

Main Window

When WinTesla opens the basic screen, HW Test Module specific DLL's must be activated using mouse to select Product → Open and select RPM–1 HW. There appears 'Initialize PCMCIA' window where you can press 'Help' button for further information.

