MobiOne User's Guide

Contents

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1 Introduction

The MobiOne program handles downloading of firmware files and Java byte code as well as configuration data, for Ericsson developed radio modems used in the Mobitex network. Currently MobiOne supports radio modems of types M10x0, M20x0, M21x0 M30x0 and M40x0.

MobiOne is delivered with two different functionality profiles depending on the intended users.

The profile for Security Level 1 offers the ability to alter the MAN. The profile for Security Level 2 lacks this functionality.

This manual describes how to use MobiOne and describes use cases for downloading of configuration data, firmware files and Java byte code.

1.1 Who Should Read this Manual?

This manual is intended for all users of MobiOne. Some concepts and abbreviations assume that the user is familiar with the radio modems used in a Mobitex network.

1.2 Updates Since Last Revision

A number of minor corrections and clarifications has been made, as well as format and layout changes.

1.3 Terminology

GUI	Graphical User Interface
MAN	Mobitex subscription number

2 System Requirements

2.1 PC Card Radio Modems

- Windows 95, Windows 98 or Windows NT/2000 platforms
- Installation requires 2 MB of hard disk space
- Minimum configuration: 133MHz Pentium, 24 MB RAM
- PC Card slot of type III.

2.1.1 Software

- PC Card handling device driver (preferably the original 32-bit drivers included in Windows 95).

2.2 Other Radio Modem Types

- Window 95, 98, NT/2000 platforms
- Installation requires 2 MB of hard disk space
- Minimum configuration: 133MHz Pentium, 24 MB RAM
- Recommended configuration: 350MHz Pentium II, 64 MB RAM.

3 Installation

MobiOne is distributed in a self-extracting package that installs the application. The following steps are needed to install MobiOne:

1. Start Windows 95, Windows 98 or Windows NT/2000.

2. Double-click on the *setup.exe* self-extracting MobiOne installation file.

3. Follow instructions given by the setup program.

During the installation the destination path will have to be specified. The default path is ..*Program Files\Ericsson\MobiOne* on the disk where Windows is installed, normally *C:*.

The following files are copied into the installation directory:

Binprotocol.dll	32-bit Device Driver DLL for M30x0 serial radio modems
Bootpcm.ram	System file for the support software
Bootser.ram	System file for the support software
Dsystpcm	System file for the support software
Dsystser	System file for the support software
Flashload.axf	System file for the support software
M21drv32.dll	32-bit Device Driver DLL for M21x0 Wireless PC Card
M21vdd95.vxd	Virtual Device Driver for M21x0 Wireless PC Card
MobiOne.exe	Executable for MobiOne
Mobione.ico	Icon picture for MobiOne
Mobitex.inf	PC-Card driver setup information file
Readme.txt	General installation and product information
Uninst.isu	Uninstall information for MobiOne

The installation will create a new Program Group, "MobiOne" in the start menu, to which the two elements MobiOne and Readme.txt are added.

4. The program may need to store files temporarily in C:\Temp\. If this directory does not already exist, create a *C:\Temp* directory on the hard drive.

4 Uninstallation

To remove MobiOne, use the *Add/Remove Programs* feature in Windows 95, Windows 98 or Windows NT/2000, from the Control Panel. Select MobiOne from the list and click the *Remove* button.

5 Application Versions

The application is produced in two different versions designed for different sets of users.

5.1 Security Level 1

The application version Security Level 1 allows the user to set the MAN for the radio modems.

5.2 Security Level 2

The application version Security Level 2 does not allow its user to change the MAN.

6 Graphical User Interface

The MobiOne GUI is described below.

- The first row in the *Modem* section shows whether a radio modem is connected. This can alter between a red cross (No modem connected) and a green tick (Serial modem connected or Serial modem M30x0 connected).
- The *Port drop-down-list* contains the COM ports available, COM1, COM2, COM3 and COM4 (and PC-Card for laptops).
- The *Prepare/Retry new modem* button is used for re-establishing the connected modem.
- The *Select configuration* button in the *Download* section is used to browse for configuration files. The chosen file are then shown in the box to the left.
- The *Select firmware* button in the *Download* section is used to browse for firmware files or Java byte code. The chosen file are then shown in the box to the left.
- In the *MAN numbe*r box the MAN of the radio modem should be written. The default value is 0 for all radio modems, except for M30x0 where the actual MAN is presented.

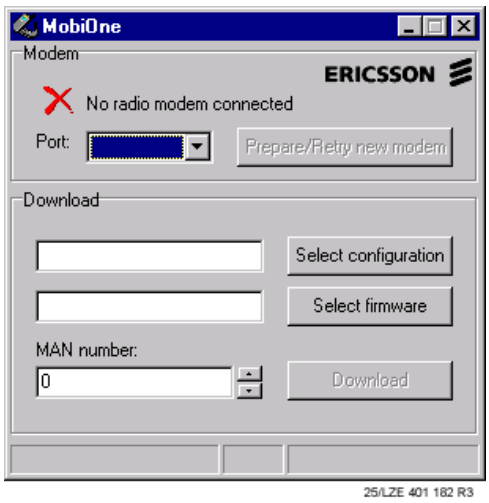

Figure 1 GUI for Security Level 1, no modem connected

Figure 2 GUI for Security Level 2, no modem connected

The following figures in this document will be snapshots of Security Level 1 only.

7 Use Cases

There are three major use cases for MobiOne:

- Downloading of configuration data.
- Downloading of firmware.
- Downloading of Java byte code.

The common parts of these use cases are described in *7.1 "Connecting Radio Modem"*.

7.1 Connecting Radio Modem

- Start MobiOne and connect the radio modem to the COM-port.
- Select the used COM-port from the select list

MobiOne will now detect the radio modem and change the GUI depending on what kind of radio modem is connected.

The progress status field will display the states "Detecting modem", "Booting modem", "Preparing modem" and finally "Finished".

If no radio modem is connected to the selected COM-port, the GUI will look like this:

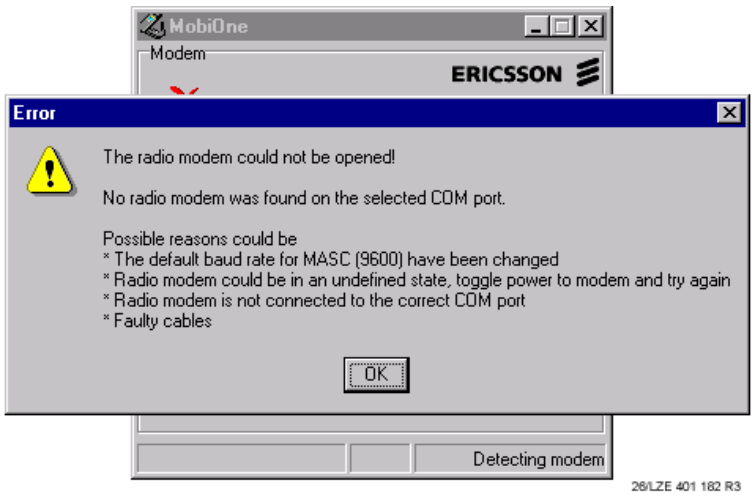

Figure 3 No radio modem connected to the selected COM-port

If an M3000 radio modem is connected it will display a dialog box describing the mode the radio modem is currently in, and how to change mode.

Figure 4 M30x0 radio modem connected in firmware download mode

Figure 5 M30x0 radio modem connected in configuration download mode

After the dialog boxes have been dismissed, the GUI will look like this:

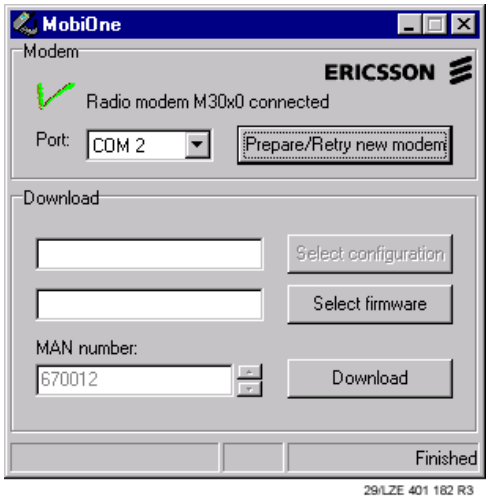

Figure 6 M30x0 radio modem, in firmware download mode, connected to COM-port 2

The radio modem is in firmware download mode, thus the *Select firmware* button is enabled, while the *Select configuration* button is disabled.

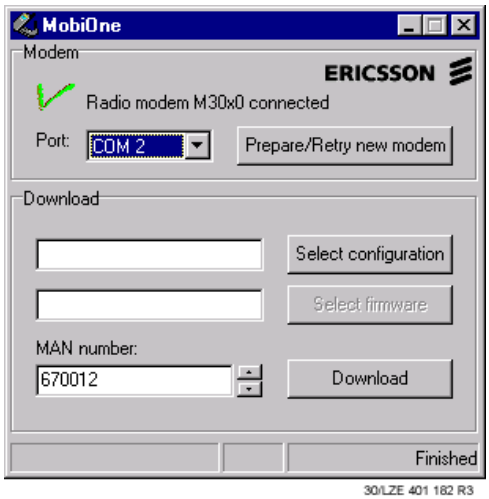

Figure 7 M30x0 radio modem, in configuration download mode, connected to COM-port 2

The radio modem is in configuration download mode, thus the *Select configuration* button is enabled and the MAN number is editable and has been set to its default value. The *Select firmware* button is disabled.

If the radio modem is not an M3000, the GUI will look similar to the ones above, except that the text regarding what radio modem is connected would differ. The

buttons *Select configuration* and *Select firmware* will be enabled.

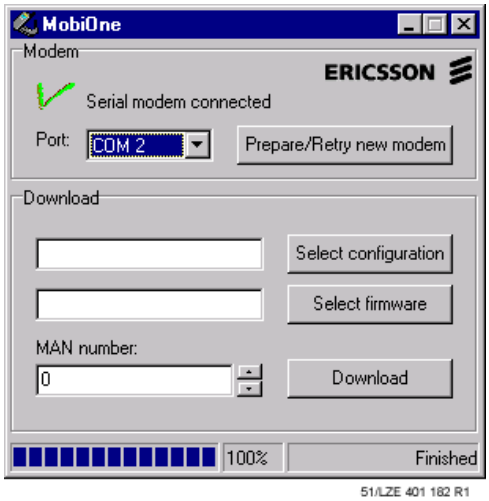

Figure 8 Radio modem (not an M30x0) connected to COM-port 2

7.2 Download Configuration Data

Follow the steps described in *7.1 "Connecting Radio Modem"* before continuing with this section.

- Click the *Select configuration* button, which launches a file selection window.

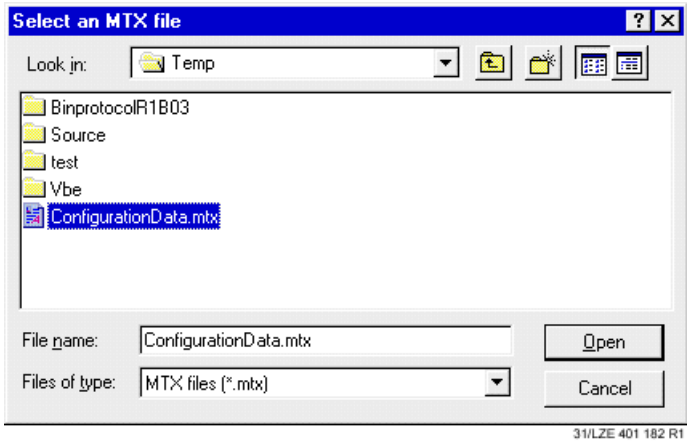

Figure 9 Dialog for selecting configuration files.

- After selecting the file, check if MAN is correct (only for Security Level 1 users).
- Click the *Download* button.
- A warning message dialog box is shown. Click *Yes* to continue downloading.

Figure 10 Warning dialog before erasing data from the radio modem

- Wait until download is finished.
  This is shown in the bottom right-hand corner of the window, after the progress bar has reached 100% and the progress status text changes from "Writing configuration" to "Finished".

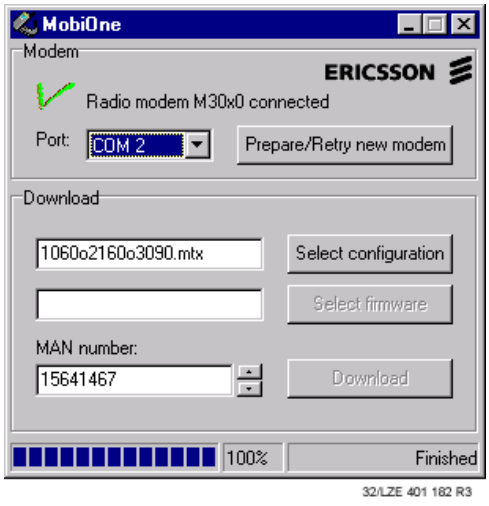

Figure 11 Download of configuration file completed

7.3 Download Firmware

Follow the steps described in *7.1 "Connecting Radio Modem"* before continuing with this section.

- Click the *Select Firmware* button, which launches a file selection window.

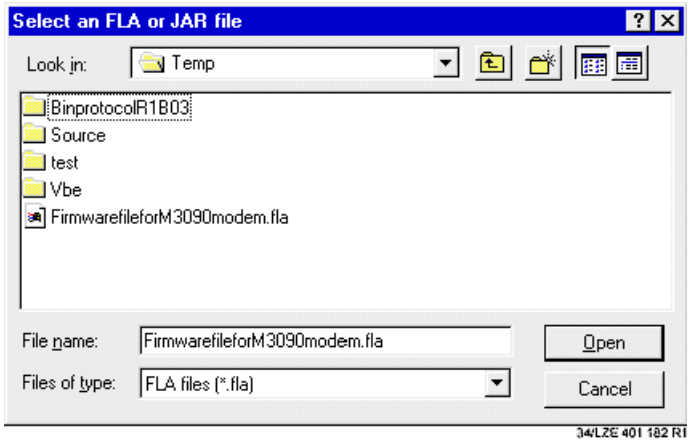

Figure 12 Dialog for selecting configuration files.

- Select a file.
- Click the *Download* button
- A warning message dialog box is shown. Click *Yes* to continue downloading.

Figure 13 Warning dialog before erasing data from the radio modem.

- Wait until download is finished.

The progress status text changes when the stages change. "Erasing flash memory"is shown when old data is erased before new data is downloaded. "Writing firmware" is shown when the next stage is started, and the is started. "Finish" is displayed when the progress bar has reached 100%.

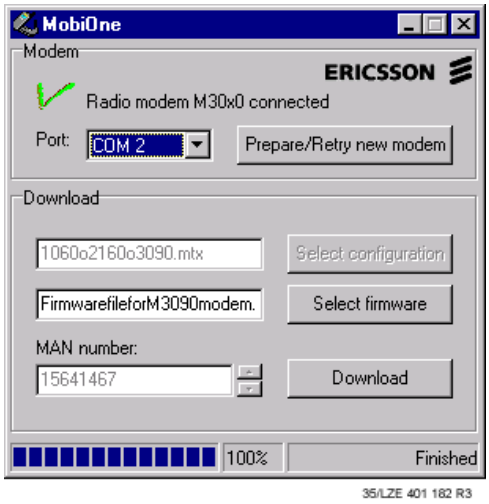

Figure 14 Download of firmware file completed

7.4 Download Java Byte Code

First follow the steps described in *7.1 "Connecting Radio Modem"*

- Click the *Select Firmware* button which launches a file selection window.

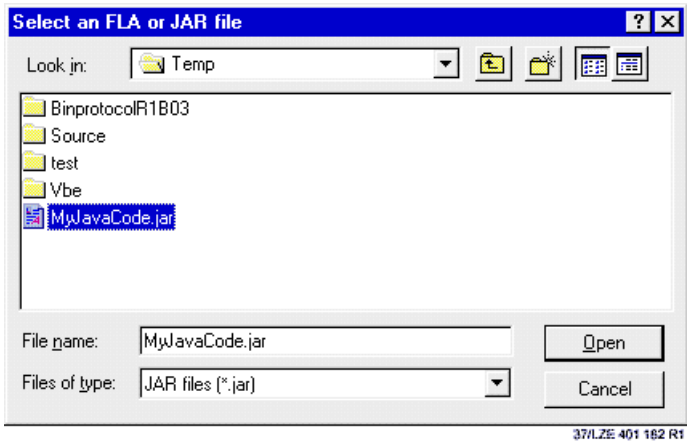

Figure 15 Dialog for selecting configuration files

- Select Files of type: JAR files (*.jar).

- Select file.
- Click the *Download* button.
- A warning message dialog box will be launched. Click Yes to continue downloading.

Figure 16 Warning dialog before erasing data from the radio modem.

- Wait until download is finished.

The progress status text changes when the stages change. "Erasing flash memory"is shown when old data is erased before new data is downloaded. "Writing Java Code" is shown when the next stage is started, and the is started. "Finish" is displayed when the progress bar has reached 100%.

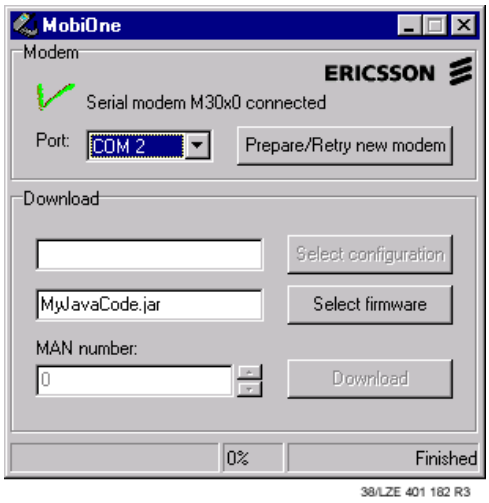

Figure 17 Download of Java byte code file completed.

8 Error Messages

Error messages are displayed as pop-up dialog boxes. For example, this is the dialog box that indicates that the radio modem COM-port is busy.

Figure 18 Example of error dialog

If MobiOne still does not work properly after trying the troubleshooting suggestion (if one exists), try restarting the radio modem and MobiOne.

Should the problem still persist, please contact your radio modem supplier.