User manual
ELS Laundry Program Manager

LPM 6

Electrolux

Original instructions

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The manufacturer reserves the right to make changes to design and component specifications.

1 Symbols

	Caution
	Caution, hot surface
	Read the instructions before using the machine

2 General

2.1 What is Laundry Program Manager?

ELS Laundry Program Manager is an intuitive, easy to use PC- tool to create or customize ELS washer or dryer program on your PC.

ELS Laundry Program Manager is hereafter referred to as LPM.

It is compatible with washers using Clarus Control, Compass Control or Compass Pro, and dryers using Compass Pro control system.

LPM gives the possibility to make a new program from scratch, using the built in Sequence Database, or use a factory program from the machine as a template, and modify according to your wishes. You can save the new program directly to the machine if you are connected to a Compass Control (RS232) or Compass Pro (USB/RS232), or use the Clarus Control memory card reader to transfer the program to a Clarus Control machine.

On Compass Control and Compass Pro, you can also change the order of appearance of the available programs in the display and change which programs should be available, or you can remove custom programs from the machine memory.

The printing function in LPM can be adjusted to give you a better overview of the program structure.

Note!
Administrator rights are required to install Laundry Program Manager and associated drivers and files.

2.2 System requirements

System requirements for CMIS are divided in two parts, PC and Machine.

2.2.1 PC

Microsoft Windows XP (x86), Windows Vista (x86/x64), Windows 7/8/10 (x86/x64)

Microsoft Internet Explorer 6.0 or higher

Intel Pentium compatible, 900 Mhz or better

Recommended Free Hard drive space is 500MB

Monitor with minimum 1280 x 1024 resolution recommended

CD-ROM drive

1 Free serial port (RS232) for connection of communication cable (Compass Control / Compass Pro)

1 Free USB port for connection of Clarus Control USB card reader or standard USB communication cable for Compass Pro

Adapter and Null modem cables for Compass Control (included in Starter kit)

USB cable for Compass Pro (included in Starter kit)

ELS Memory card reader and memory card for Clarus Control (included in Clarus Control Option kit)

2.2.2 Machines — Washers

LPM is supported by machines equipped with Clarus Control, Compass Control or Compass Pro.

There are different ways of transferring the program to or from the machine.

- Clarus Control uses ELS Card reader and Clarus Control Memory Card.
- Compass Control uses a serial COM port connected to P-load port on Compass Control CPU.
- Compass Pro can use either a USB port on the machine front or CPU board, or a serial COM port on the CPU board.

Software

LPM is supported by software versions as listed below:

Clarus Control, all software versions.

Compass Control
Version required to create and upload/download program:
Base software 432669904: Version 3.27 or later.
Base software 432669701: Version 2.63 or later.
Base software 432669920: All versions.
Base software 432669720: All versions.

Version required to use functionality **Manage active programs** list:
Base software 432669920: Version 4.5 or later.
Base software 432669720: Version 4.5 or later.

Actual software version can be read in Service menu under Service – Article Number – Program Unit – Base Software.

Compass Pro, software 432669961 version 4.09 or later.

Actual software number and version can be read in Service menu under System – System Information – CPU – FW.

Non-compatible software or machine is recognized by a red stop icon in the Machine view. See **Scanning for connected machines**.

2.2.3 Machines — Dryers

LPM is supported by machines equipped with Compass Pro control system.

- Compass Pro can use either a USB port on the machine front or CPU board, or a serial COM port on the CPU board.

Software

LPM is supported by software versions as listed below:

Compass Pro software 432669961 version 4.09 or later.

Actual software version can be read in Service menu under System – System Information – CPU – FW.

Non-compatible software or machine is recognized by a red stop icon in the Machine view. See **Scanning for connected machines**.

2.2.4 Additional Requirements

LPM consists of two different kits.

The Starter kit (p/n 988802269), includes software CD, USB cable, adapter cable and a null modem cable. This is all necessary accessories to start using LPM with Compass Control and Compass Pro machines.

Clarus Control Option kit (p/n 988802260, includes ELS Card reader and 5 Clarus Control Memory cards. You need this kit if you intend to use LPM with Clarus Control machines.

Both kits are available for purchase from your local Electrolux Professional dealer.

2.3 File types

Wash Program Manager uses different file types in accordance with the following:

*.mac = Machine file for specific machine. (For Clarus Control, *.mac and *.seq files are backwards compatible with WPM from version 3. For Compass Control, WPM 5 or later is required. For Compass Pro, LPM 6 or later is required).
Contains factory made program modules with menus and parameters adapted for the selected machine. The machine files will be updated when LPM is updated via the ELS website.

*.seq = Database file for specific machine. Contains user made program modules. The *.seq file will be preserved when LPM program is updated. (For Clarus Control, *.mac and *.seq files are backwards compatible with WPM from version 3. For Compass Control, WPM 5 or later is required. For Compass Pro, LPM 6 or later is required). (A *.seq file created in WPM 5 / LPM 6 or later cannot be opened in earlier versions).

*.wpf, *.lpf = Program file, (for Clarus Control, *.mac and *.seq files are backwards compatible with WPM from version 3. For Compass Control, WPM 5 or later is required. For Compass Pro, LPM 6 or later is required), enabling custom made programs to be saved to your hard drive. The file is tagged to a specific machine model, but can be converted to another with the same control system. Files will be preserved when LPM is updated. (The file extension *.lpf is used from LPM 6.0 and later. A *.wpf file created in WPM can be opened with LPM. LPM can save to *.wpf for use in earlier WPM versions. Compass Pro can only use LPF format).

*.wpl = File containing the program library for Compass Control or Compass Pro. This is normally stored on the computer's hard disk and is tagged to a specific machine model. It can also be uploaded to the CPU, but always to the same machine model. Files will be preserved when LPM is updated

*.bin = File containing the program library for Clarus Control. This is normally stored on the computer's hard disk and can be written to a memory card. The .bin file has the same size and memory structure as a Clarus Control memory card. Files will be preserved when LPM is updated.

3 Installation

3.1 Installing LPM

Note!

You must have administrator rights to install ELS LPM. Alternatively, you can select to run the installation as administrator under your own login.

Insert the CD-ROM into the CD / DVD reader. If the Installation dialog will not start automatically, select Open folder to view files and double click the Start file. An internet browser will open with following content.

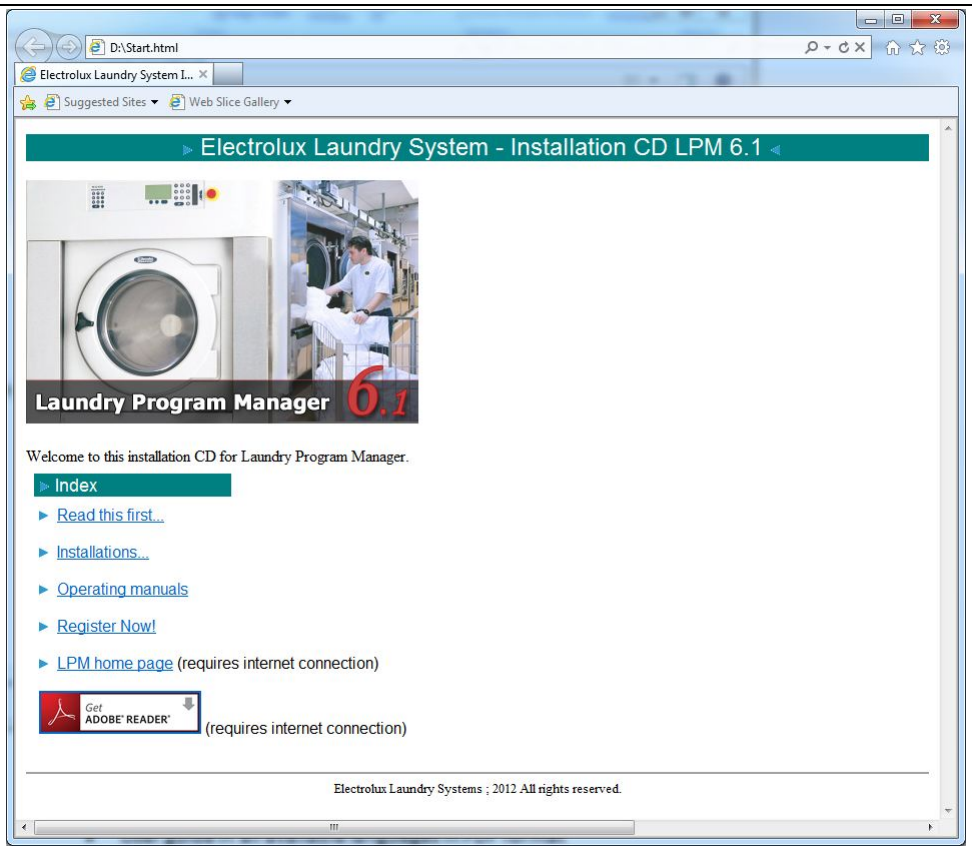


fig.W00304

In addition to the LPM installation files, this menu also holds the following information:

- **Read this first** - information about the program' version number and system requirements, along with details of new features in the software and machine files.
- User guide in all available languages in PDF format.
- Registration form.
- Link to the LPM website (requires Internet connection).

Select **Installation**. At the question if you want to run or save the file, select Run. If you get a security warning notifying you that the installation file has been issued by a publisher unknown to Microsoft, click Run.

The installation sequence starts.

If you have a previous installation of ELS Wash Program Manager on your computer, you will be prompted to uninstall this before installing ELS LPM.

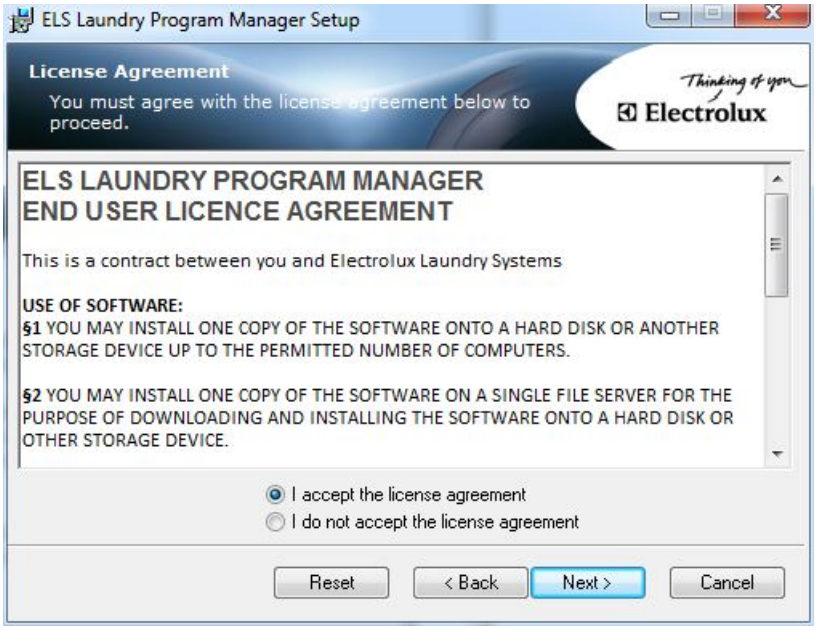
Click **Yes** to continue uninstall of previous version.

fig.W00305

When the installation script opens the Welcome to LPM Installation wizard, select options where applicable, and click **Next** on the next few screens to finalize the installation.

fig.W00306

fig.W00307



W00308

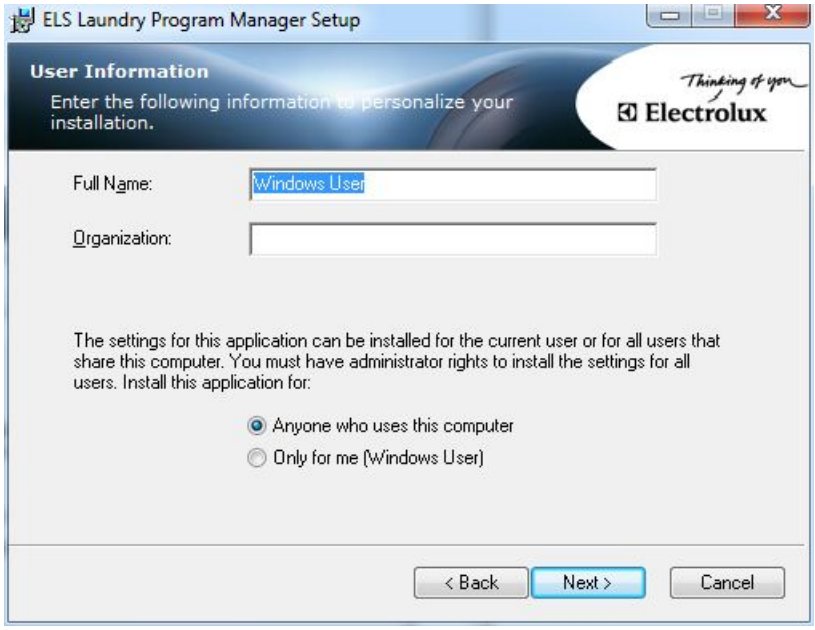


fig.W00309

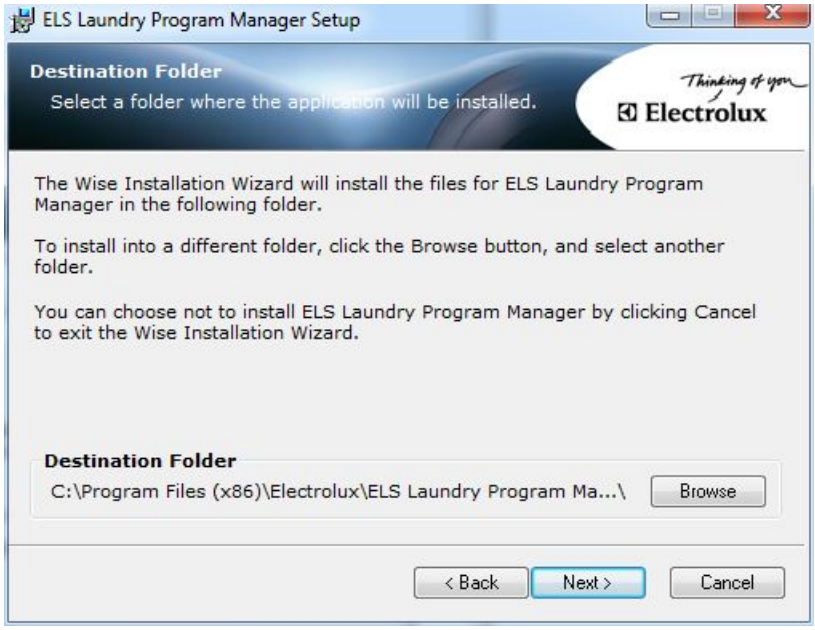


fig.W00310

You will have the opportunity to choose which brands of machine files you want to install.

As default, only machine files for ELS brand will be installed. If you want to install another brand, click the drop down list to extend the installation. Click **Next** to continue.

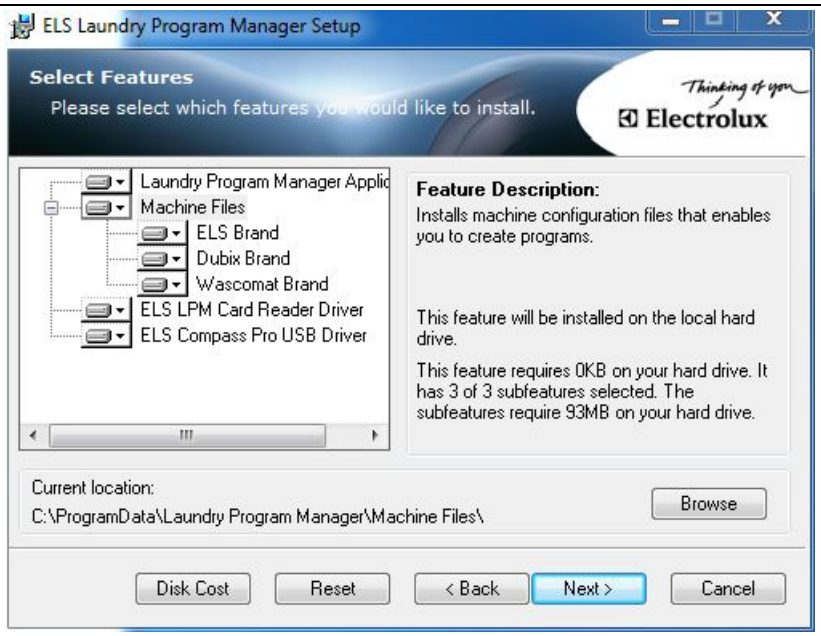


fig.W00311

Select the language you want to use. Click **Next** to continue.

fig.W00312

Select the units for temperature, water volume and water level you want to use.
Click **Next** to continue.

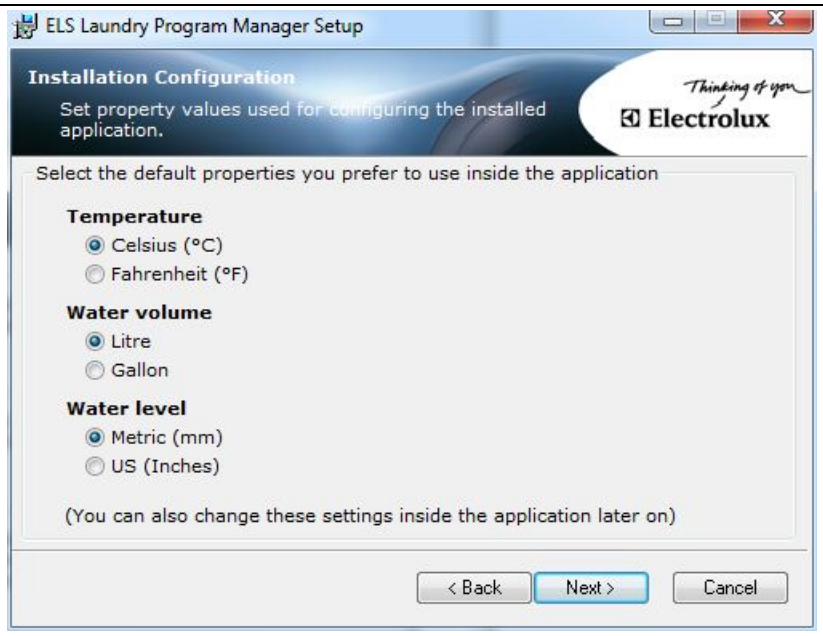


fig.W00313

Click **Next** to start installation, which will take a few minutes to complete.
Once installation is complete, following screen will show:

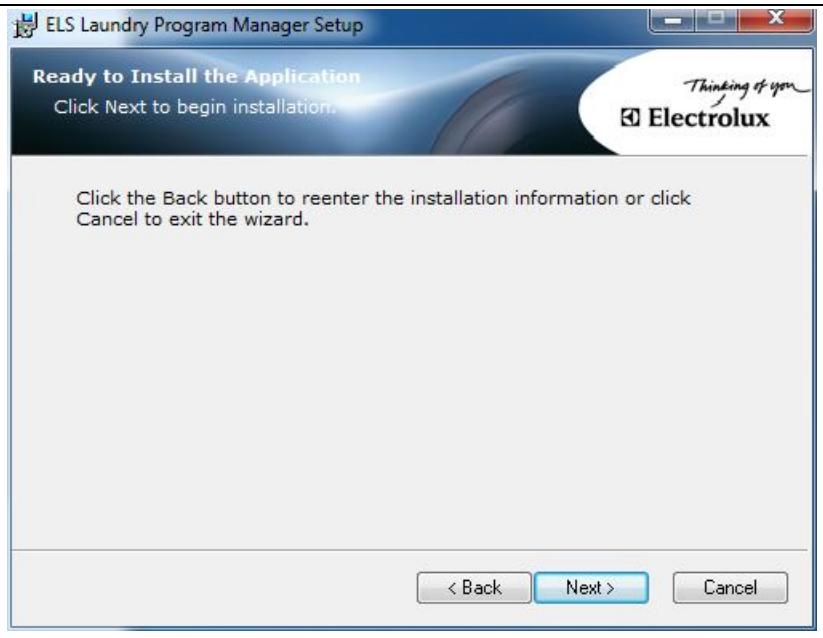


fig.W00314

Click **Finish** to complete the installation of LPM.

fig.W00315

Once installed, you can launch the program from the Start menu under All programs – Electrolux – ELS Laundry Program Manager.

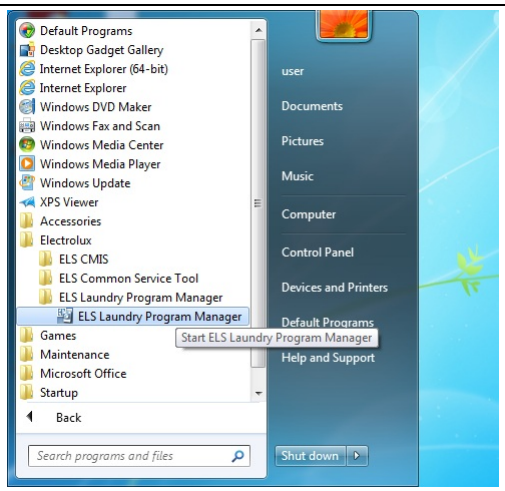


fig.W00316

3.2 Installation of USB driver for ELS Compass Pro and ELS Card reader

Note!

You need to have administrator rights to install the drivers.

The driver files are copied to your local hard drive during ELS LPM installation.

When you plug in the ELS LPM Card reader or an ELS Compass Pro machine for the first time, your computer will recognize this and open the “New hardware detected” information window in the task bar. Click on it to start the "Found New Hardware Wizard".

In the "Found New Hardware Wizard", select **NOT** to use Windows Update to search for a driver.

Instead, select "Install the software automatically”

Click **Next** or **Finish** on the next few screens, until your driver is installed.

You might have to do the above for each USB port you want to use with LPM.

4 Communication connection

4.1 Compass Control

Disconnect the power to the machine.

- Remove the top panel from the machine.
- Connect the null modem cable to a free serial port on your computer.
- Connect the adapter' cable contact to the null modem cable.

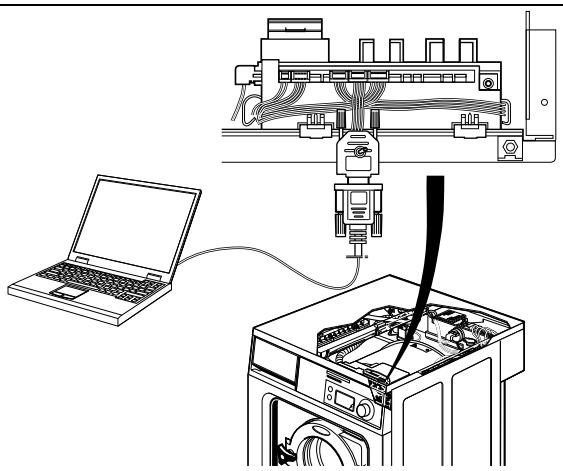


fig.6401

- Connect the adapter' edge connector to program device contact PLOAD (con6) using the cables to the front of the machine.
- Set the adapter switch to the OFF position.
- Connect the power to the machine.

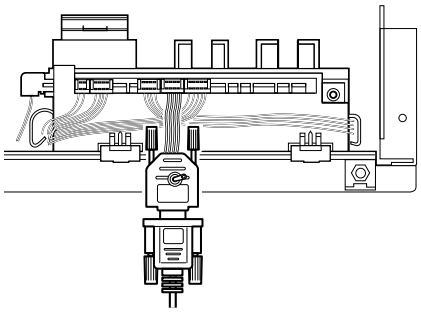


fig.6402

4.2 Compass Pro

- Connect one end of the USB cable to a free USB port on your computer and the other end to the USB port on the machine front.

fig.W00317

- Alternatively, disconnect the power to the machine, remove the top panel from the machine and connect the other end of the USB cable directly to the Compass Pro CPU. Connect the power to the machine.

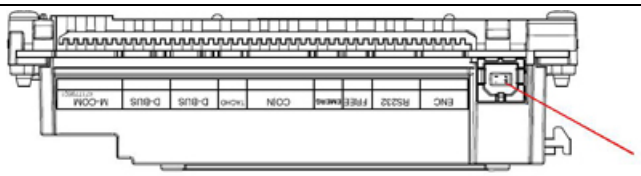


fig.W00318

Note!

You must install the ELS Compass Pro USB driver before you can start using LPM and communicate with the machine. See section: Installation of USB driver for ELS Compass Pro and ELS Card reader.

4.3 Clarus Control

- Connect the ELS card reader to a USB port on the PC.
- Communication between PC and program device takes place via memory card.

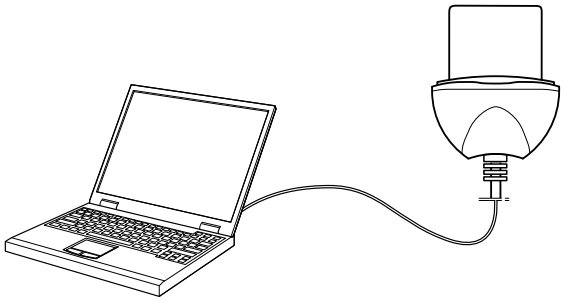


fig.6505

Note!

Note! You must install the ELS LPM Card reader driver before you can start using LPM and transfer programs to or from the memory card. See section: Installation of USB driver for ELS Compass Pro and ELS Card reader.

Note!

Always connect ELS LPM Card reader before launching LPM application.

5 User interface General

5.1 Menus and functions

When you start LPM first time, the **Machine view** pane will be active.

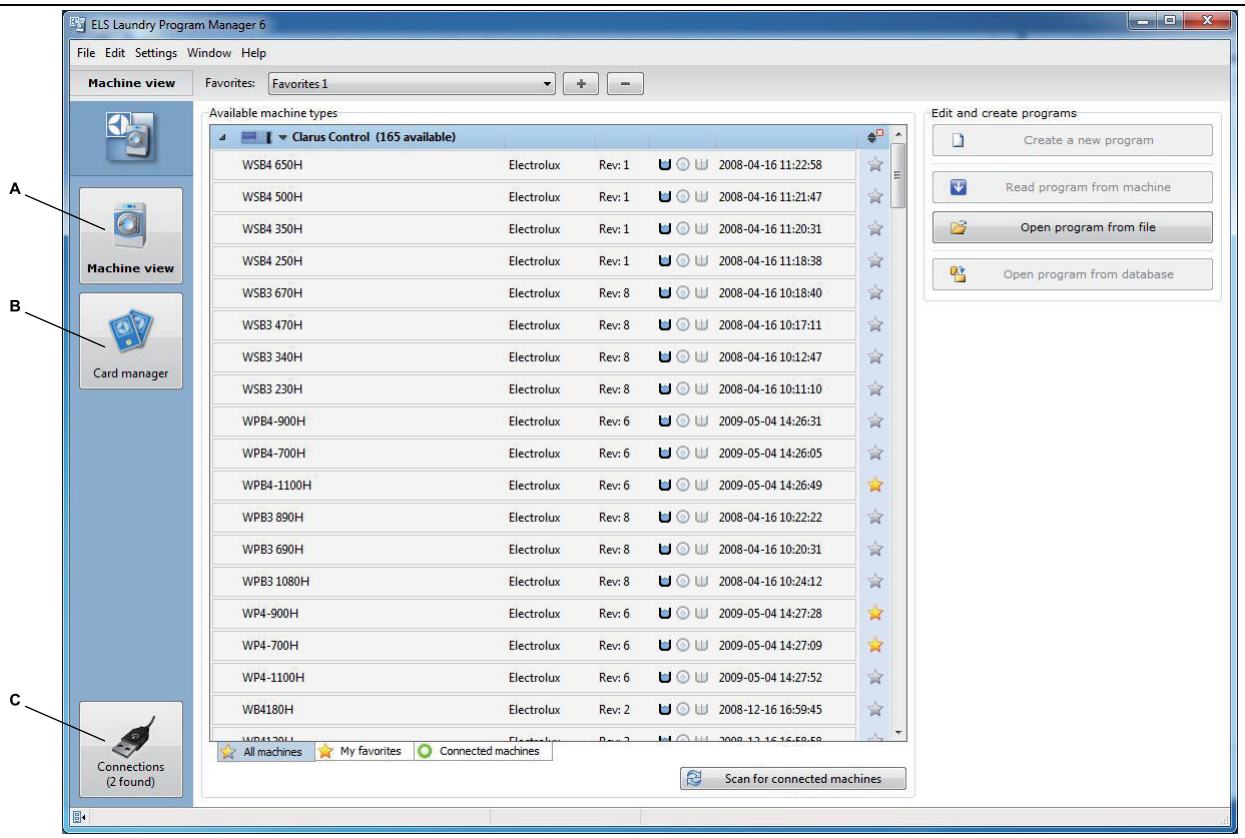


fig.W00319

The different panes are described deeper in respective section of this manual:

A. **Machine view** shows all machine files that are installed on your computer. Number of available machine files is indicated after each control system. Expand or collapse the lists by clicking the the arrow to the left in each headline.
B. **Card manager** shows connected Clarus Control Memory cards and / or virtual cards.
C. **Connections** shows all detected communication ports, both ports that are available and ports used by LPM.

5.1.1 Menu bar

The menu bar contains a number of sub-menus: **File**, **Edit**, **Settings**, **Window** and **Help**. The functions featured in the **File** and **Settings** menus are described in their respective sections in this document. The **Edit**, **Window** and **Help** menus contain standard Windows functions and are not covered in this manual.

5.1.1.1 File menu

File menu is used to:

- Create a new program.
- Open a program file for editing.
- Specify print settings (also found under Settings –rint Settings).

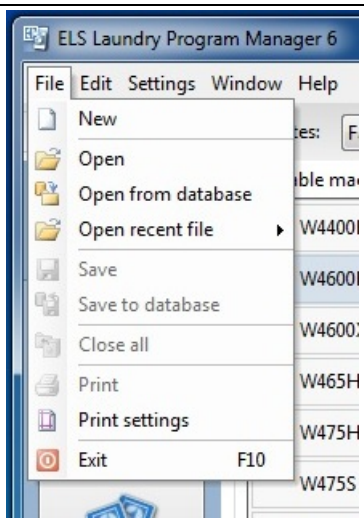


fig.W00320

5.1.1.2 Settings menu

fig.W00321

Application Settings is used to:

1. Specify units for temperature, volume and water height.
2. Specify LPM settings.
3. Specify the default language when transferring programs to Compass Control or Compass Pro.
4. Adjust the appearance and behavior of LPM.

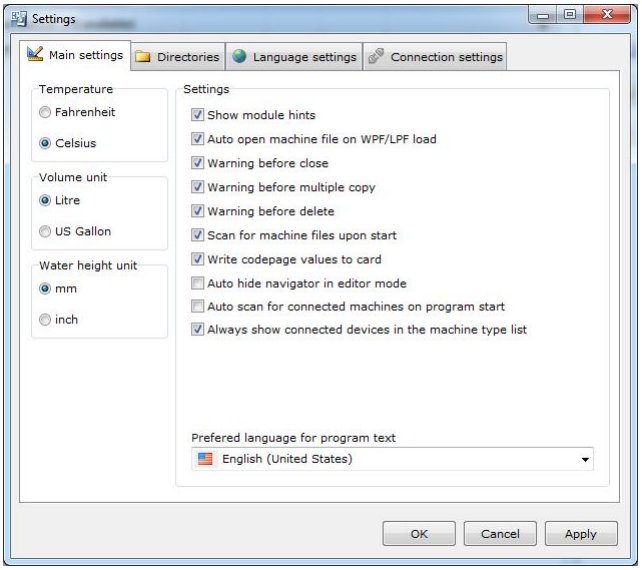


fig.W00322

5. Change the search path to system files (default search path recommended).

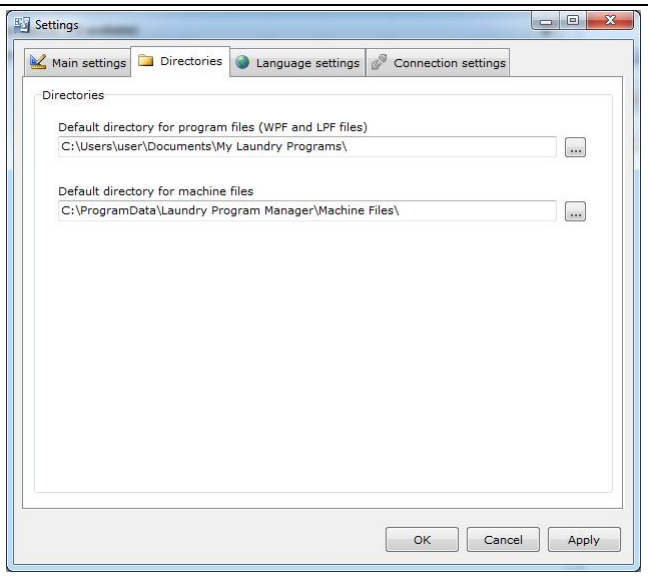


fig.W00323

6. Select the language for use in LPM application.

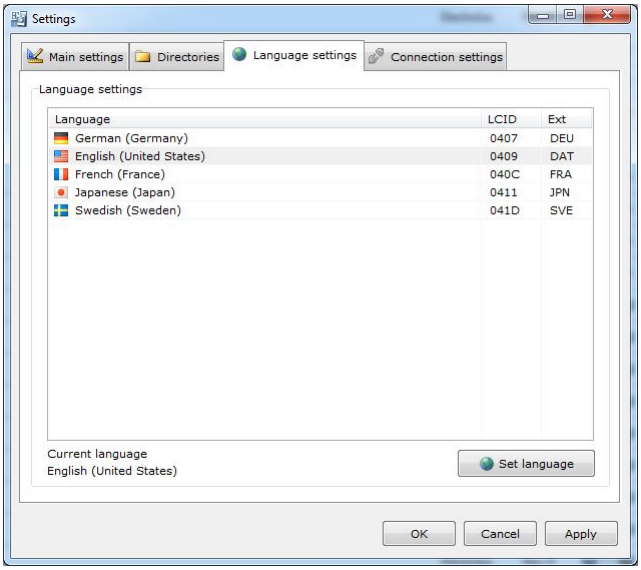


fig.W00324

7. Specify the maximum baudrate when transferring data between PC and Compass Control or Compass Pro.

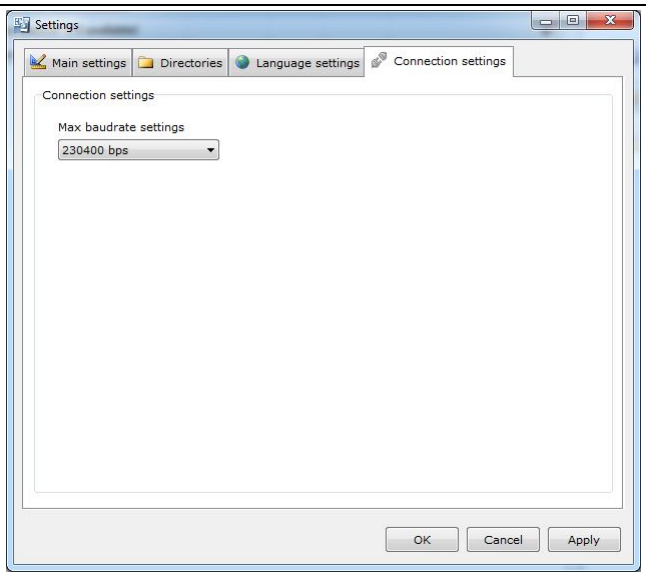


fig.W00325

Print settings is used to:

1. Determine the format of printouts.
2. Select the printer to be used.

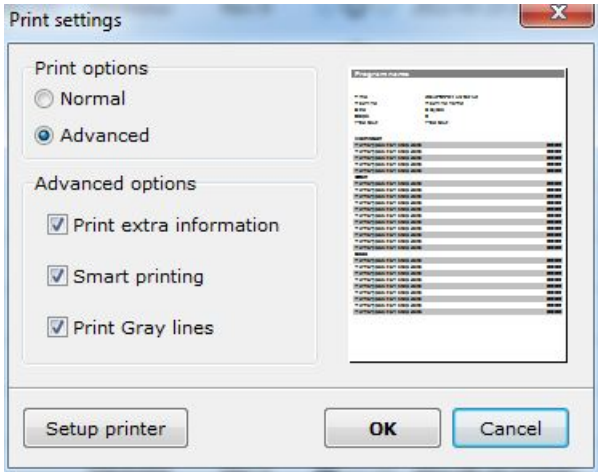


fig.W00326

5.2 Machine view

When you start LPM first time, the **Machine view** will be active.

Machine view shows all machine files that are installed. Number of available machines files is presented after each type (A).

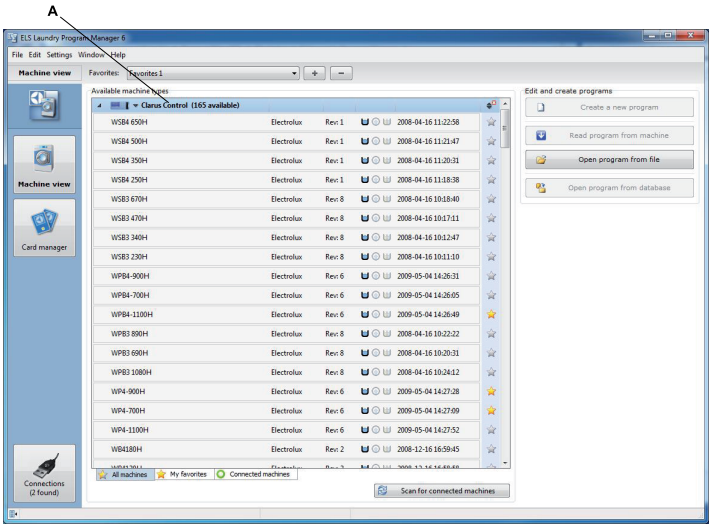


fig.W00319A

When tab **All machines** (B) or **My favorites** (C) is selected, you can toggle the list of machine files to be expanded or collapsed individually for Clarus Control, Compass Control and Compass Pro by clicking the arrow to the left in the Control system headline (D).

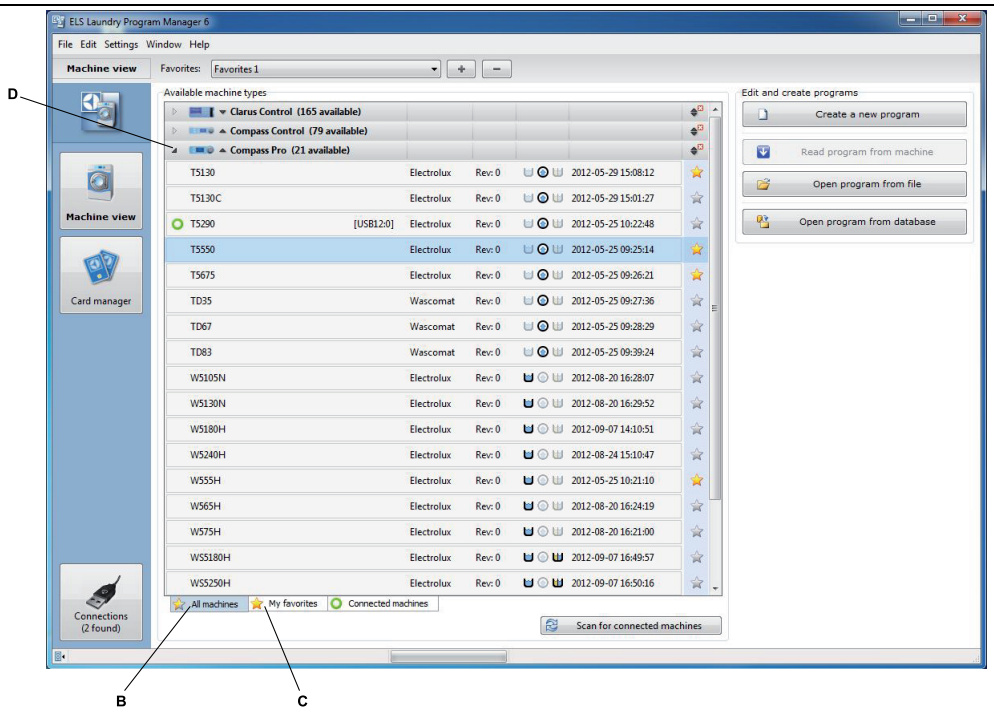


fig.W00328

Depending on if you have selected a machine file or not, if you have selected a machine file for a Clarus Control, Compass Control or Compass Pro, and if the machine is connected or disconnected, different options appear in this view.

No selected machine

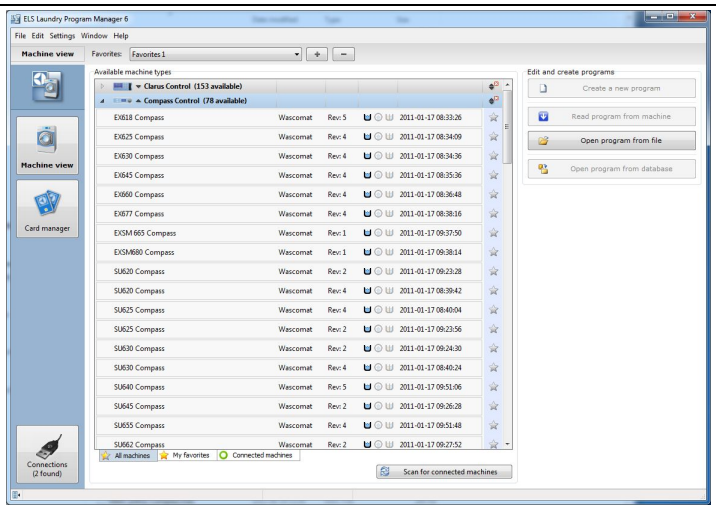


fig.W00329

Clarus Control machine selected

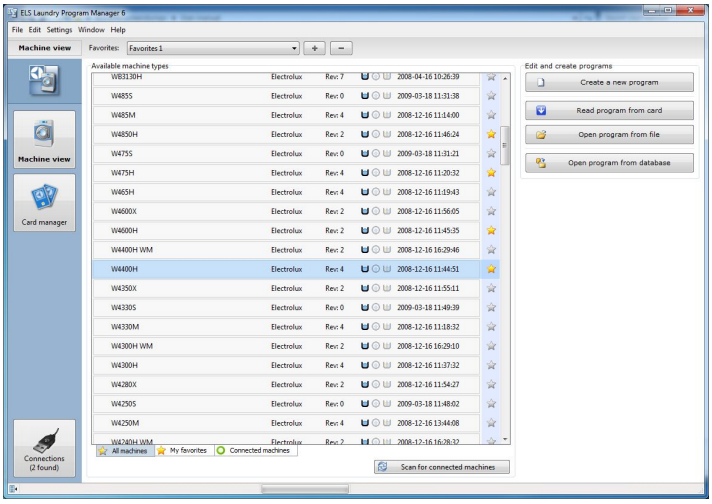


fig.W00330

Compass Pro or Compass Control selected but not connected

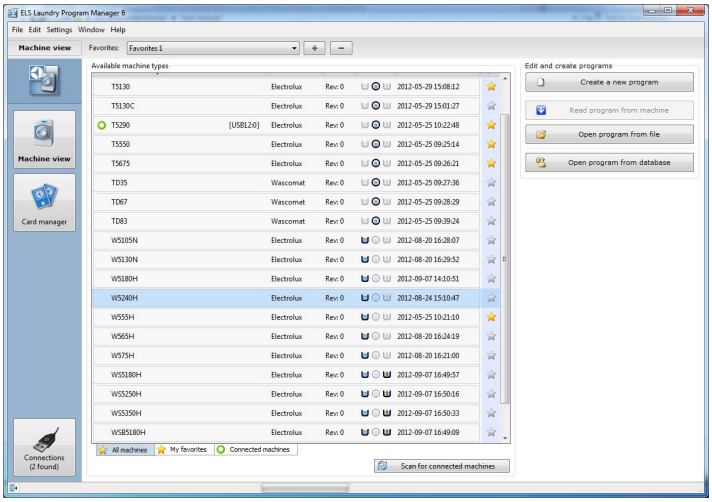


fig.W00331

Compass Pro or Compass Control selected and connected

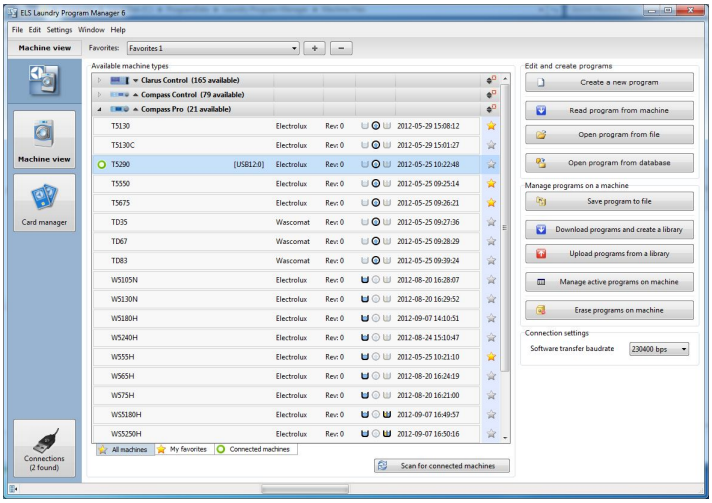


fig.W00332

5.2.1 Edit and create programs for Clarus Control

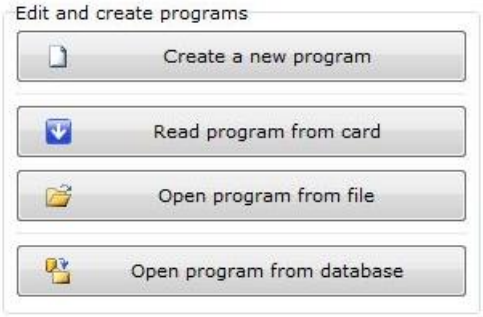


fig.W00333

Create new program: Opens the **Program editor** pane with an empty program for the selected machine model.

Read program from card: (only if there is a valid Clarus Control memory card selected. See section: Card manager). Opens the **Read program from card** dialog to select a program from the card reader. If you have more than one card reader connected, e.g. ELS USB Card reader and a virtual reader, you will have to select which reader you want to read from.

Open program from file: Opens the **Load program** dialog to select a previously saved "*.lpf"-file and open it in **Program editor**. As the "lpf"-file is tagged with the machine model, it will open the correct machine file automatically.

Note!

This function will also handle the previously used "*.wpf" file extension. See section: File types.

If a machine file is selected, following options are also available.

Open program from database: Opens the **Open database program** dialog to select a program from **Sequence database** to be opened in **Program editor**. See section: Sequence database / Database manager

5.2.2 Edit and create programs for Compass Pro or Compass Control

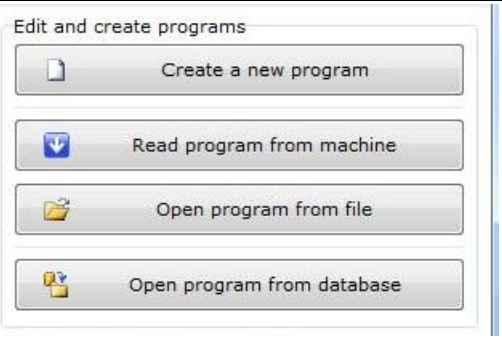


fig.W00334

Create new program: Opens the **Program editor** pane with an empty program for the selected machine model.

Read program from machine: (only if there is a Compass Pro or Compass Control machine connected). Opens the **Read program from machine** dialog and lets you select a program from the machine to be opened in **Program editor**.

Open program from file: Opens the **Load program** dialog to select a previously saved "*.lpf"-file and open it in **Program editor**. As the "lpf"-file is tagged with the machine model, it will open the correct machine file automatically.

Note!

This function will also handle the previously used "*.wpf" file extension. See section: File types.

If a machine file is selected, following options are also available.

Open program from database: Opens the **Open database program** dialog to select a program from **Sequence database** to be opened in **Program editor**. See section: Sequence database / Database manager

5.2.3 Manage programs on a machine for Compass Pro or Compass Control

fig.W00335

If you have a Compass Control or a Compass Pro machine connected, you will have additional options under **Mange programs on a machine**.

Save program to file: Opens the **Read program from machine** dialog and lets you select a program from the machine and save it as a “*.lpf” – file on your hard drive. The “*.lpf”-file is tagged with the machine model to prevent from being uploaded to wrong type of machine. See section: File types.

Download programs and create library: Opens the **Download programs to library** dialog and lets you select a number of user programs to be written to a program library and then saved as a “.wpl”-file on your hard drive. See file extensions.

This can be very useful if you want to upload a number of programs to several machines of the same model. This way you only need to create and upload the programs individually to one single machine, and create the library from that one. The “.wpl”-file is tagged with the model to prevent from being uploaded to wrong type of machine. See section: File types.

Upload programs from a library: Opens the **Select library** dialog to select an previously saved “.wpl”-file to upload to a machine.

Manage active programs on a machine: Opens the **Read program from machine** dialog and lets you select a program from the machine to be opened in **Program editor**.

Delete programs on machine: Opens the **Delete program from machine** dialog and lets you select one or several programs from the machine to be erased from machine memory.

5.2.4 Managing Favorite lists

Depending on your selection during installation, the Machine file list can contain more than 200 files. Therefore, it can be wise to create one or several Favorite lists.

Use the “+” button (A) to open the dialog Create a new favorite list. Enter a name and click OK.

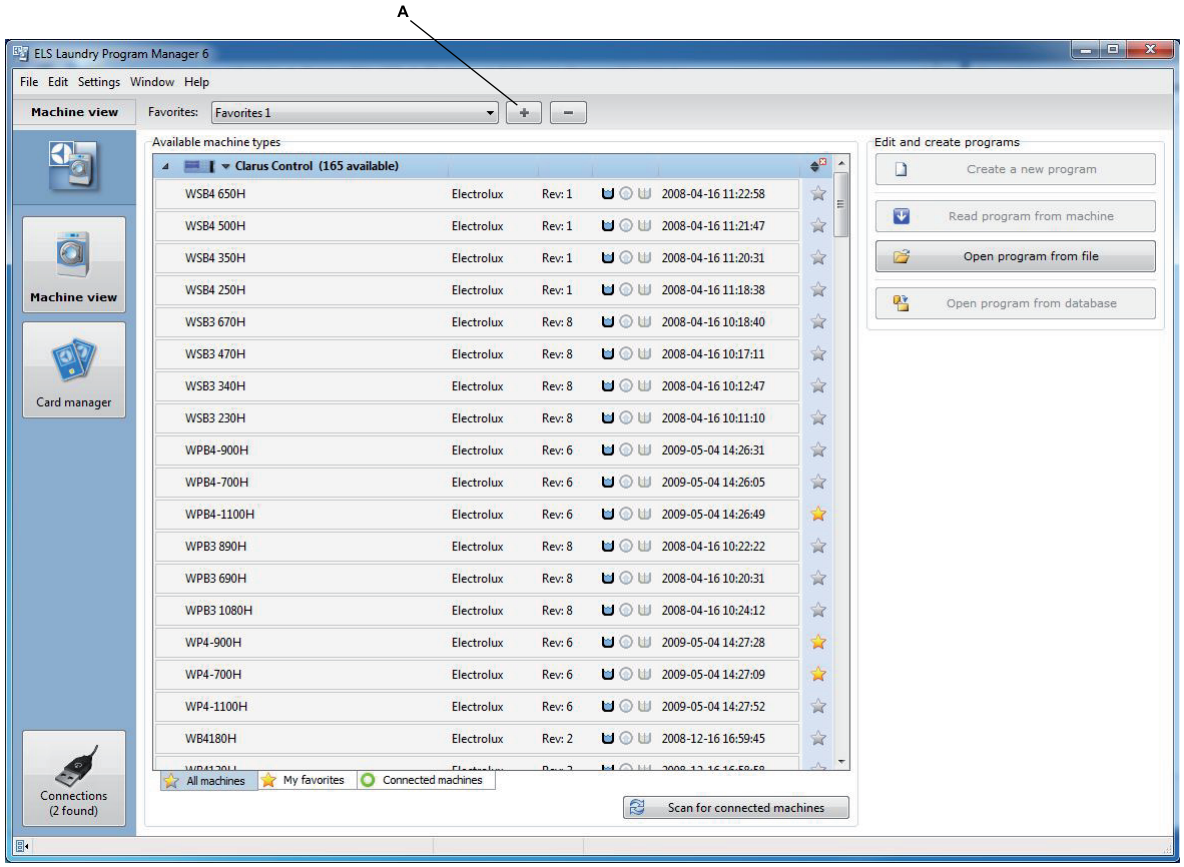


fig.W00319B

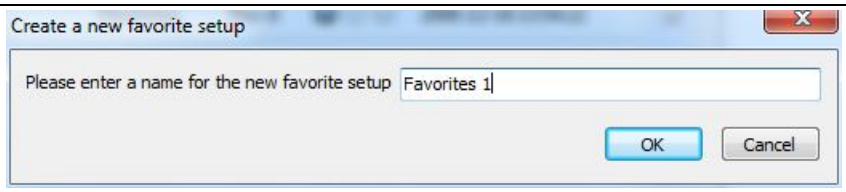


fig.W00337

The machine list showing all machines will open.

Add machines to the new favorite list by clicking the star symbol (A) after the machine name.

The star symbol turns yellow to indicate that the machine is in present favorite list.

You can also right click a machine file and select **Add to My favorites**.

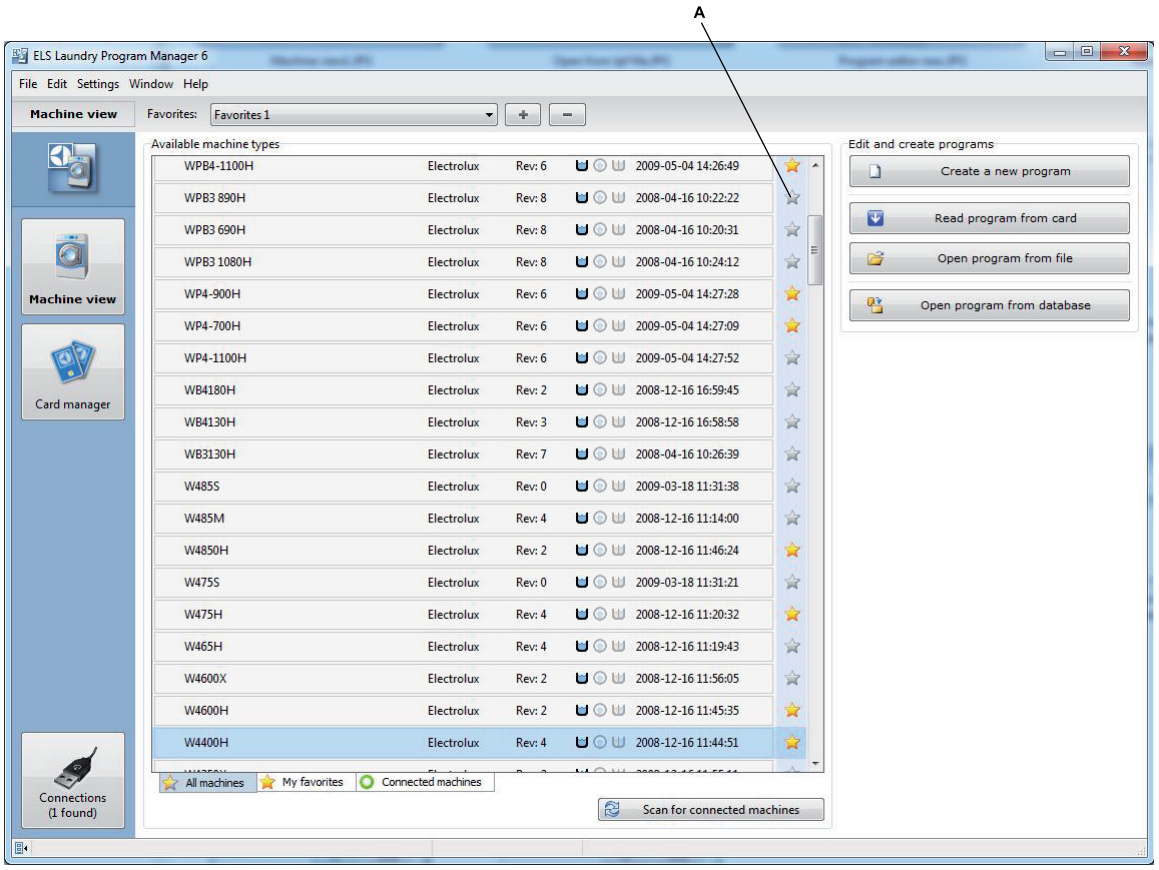


fig.W00338

By selecting **“My favorites”** tab below the list, only machines that you have marked as favorites will be visible in this view. You can at anytime select the **“All machines”** tab to view all machines again.

Repeat the above steps to create another favorite list.

Clicking the “-“ button (A) will delete the presently selected favorite list.

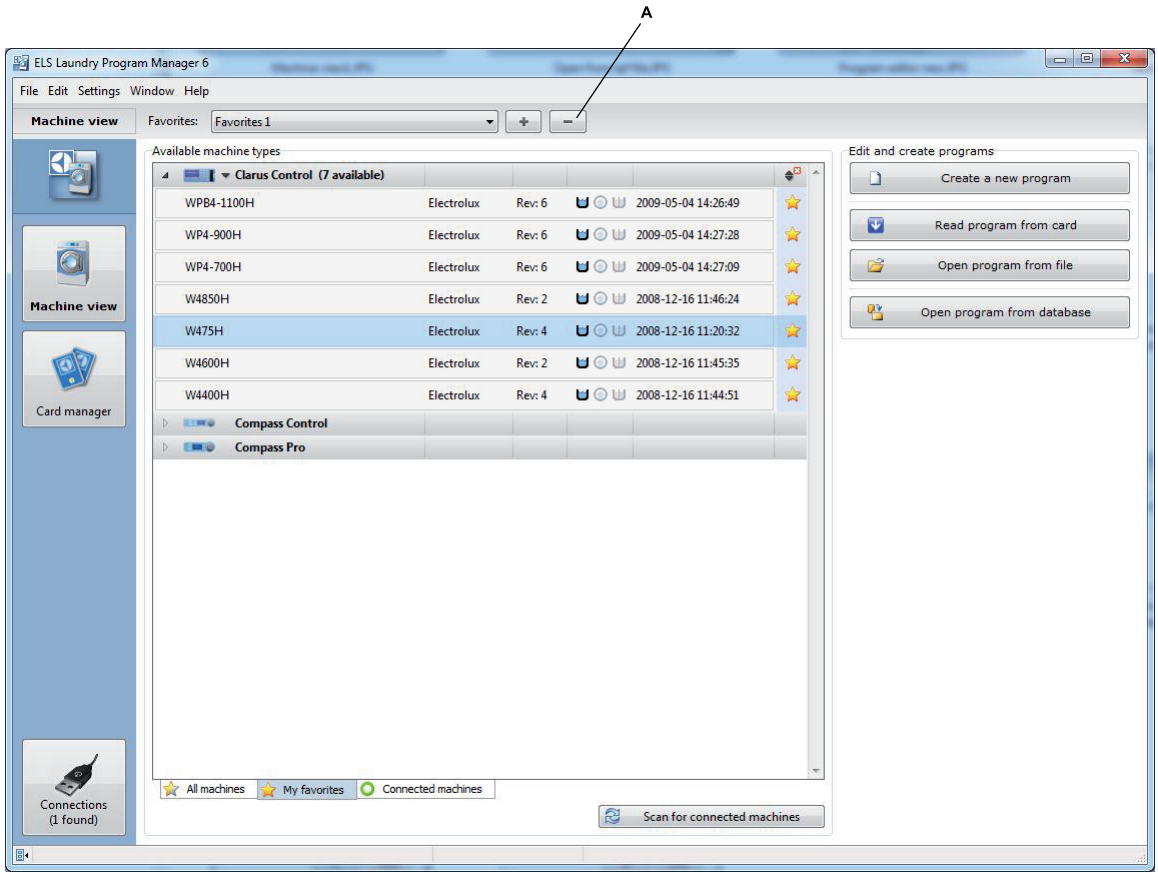

A
ELS Laundry Program Manager 6
File Edit Settings Window Help
Machine view
Favorites:
Favorites 1
Available machine types
Clarus Control (7 available)
WPB4-1100H Electrolux Rev: 6 2009-05-04 14:26:49
WP4-900H Electrolux Rev: 6 2009-05-04 14:27:28
WP4-700H Electrolux Rev: 6 2009-05-04 14:27:09
W4850H Electrolux Rev: 2 2008-12-16 11:46:24
W475H Electrolux Rev: 4 2008-12-16 11:20:32
W4600H Electrolux Rev: 2 2008-12-16 11:45:35
W4400H Electrolux Rev: 4 2008-12-16 11:44:51
Compass Control
Compass Pro
Edit and create programs
Create a new program
Read program from card
Open program from file
Open program from database
Machine view
Card manager
Connections (1 found)
All machines
My favorites
Connected machines
Scan for connected machines

fig.W00339

5.2.5 Scanning for connected machines

Note!

Only machines with Compass Control or Compass Pro can be scanned.

In order to read or write program to a Compass Control or a Compass Pro machine, you must establish a communication between the machine and your computer. Once you have connected the proper cable setup, you must scan for connected machines. Click the button **Scan for connected machines**. (Also available in **Connections** pane).

Alternatively, you can tick the box **Auto scan for machines on program start** in the **Settings** dropdown menu to automatically scan for connected machines when LPM is started.

The scan will take a few seconds and a pop-up will indicate **scan completed** and number of machines found.

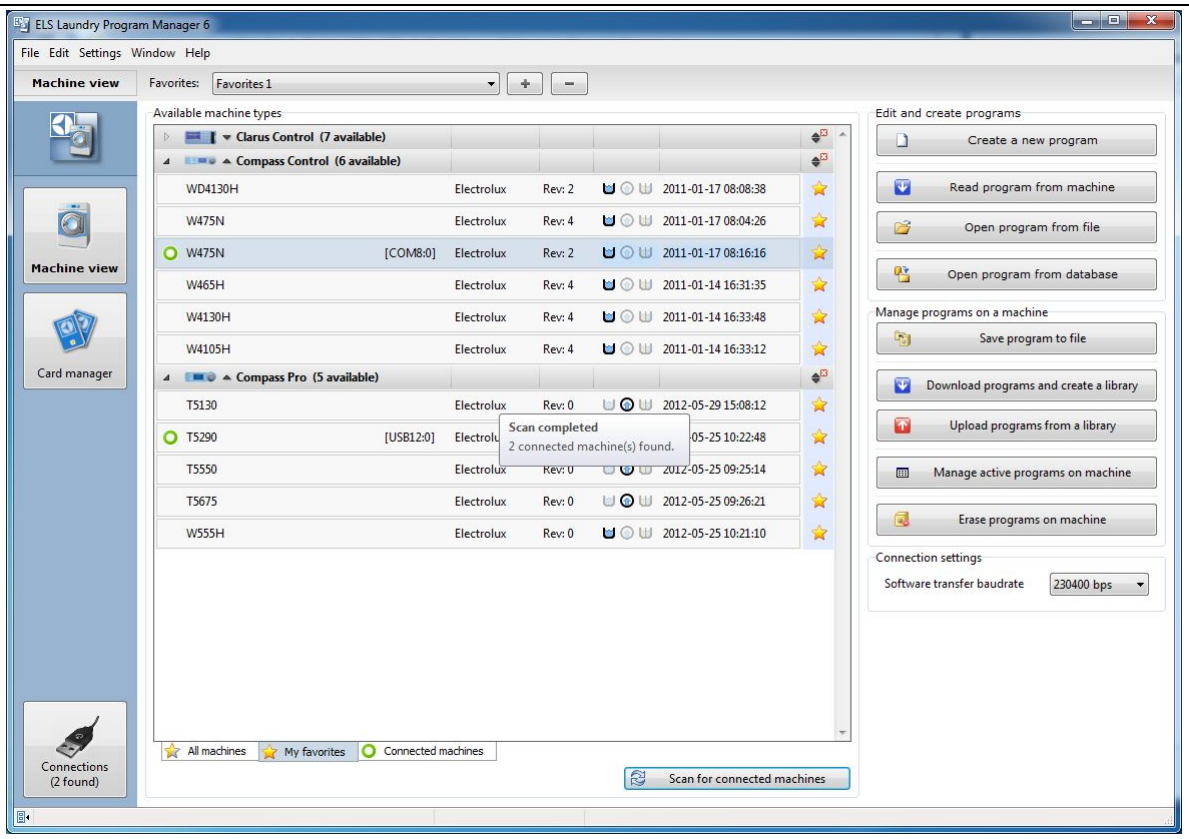


fig.W00340

If the scan succeeded to find a connected machine, it will be indicated by a green “circle” icon in front of the machine name.

Selecting the tab **Connected machines** (A) will hide non connected machines, and show only connected.

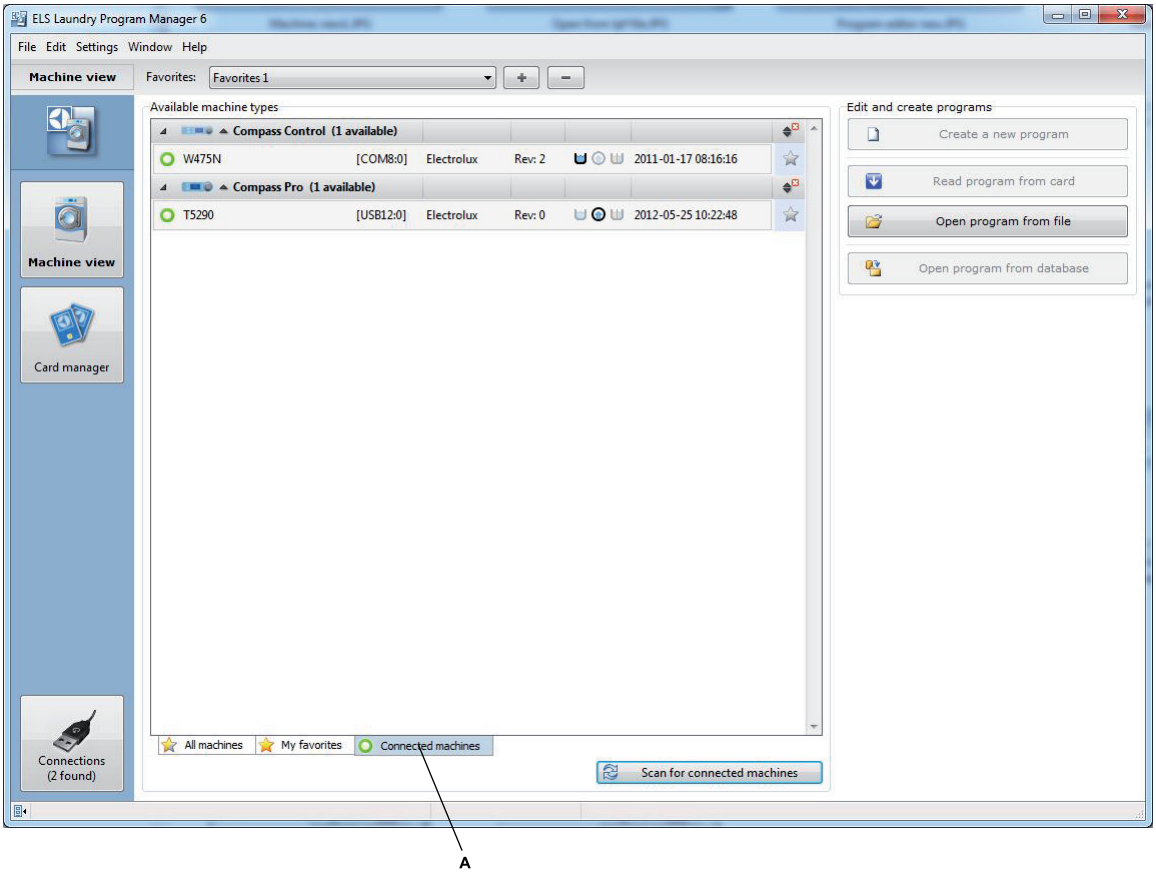


fig.W00341

In case there is no machine file available or the connected machine is not supported by LPM, a red stop symbol will be shown in front of the connected machine name.

If the red stop symbol is shown together with information **No machine file found** , make sure you have installed the machine files for the connected brand of machine. See section: Installing LPM. Alternatively, visit ELS website to download latest version of LPM with updated machine files.

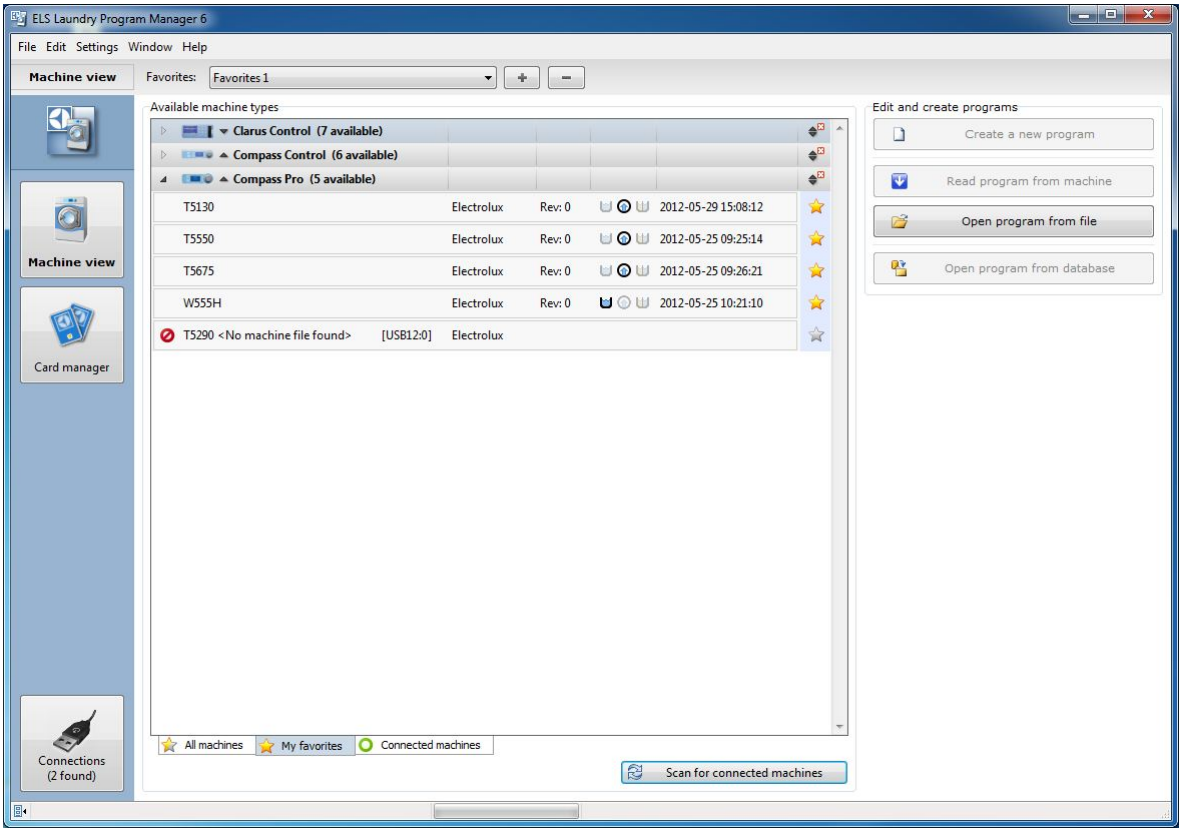


fig.W00342

5.3 Card manager

Depending on if you have a valid memory card or **Virtual reader** connected, and if it is selected or not, different options appears in this view.

Card manager with no reader selected

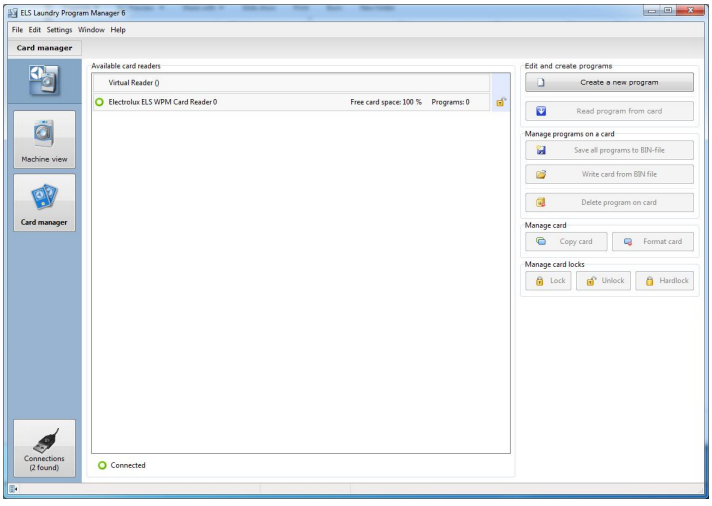


fig.W00343

Card manager with ELS USB Card reader selected

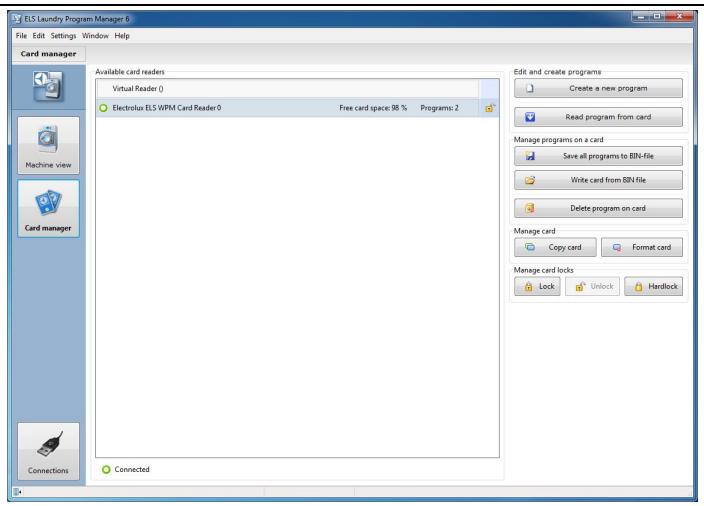


fig.W00344

Card manager with Virtual reader selected

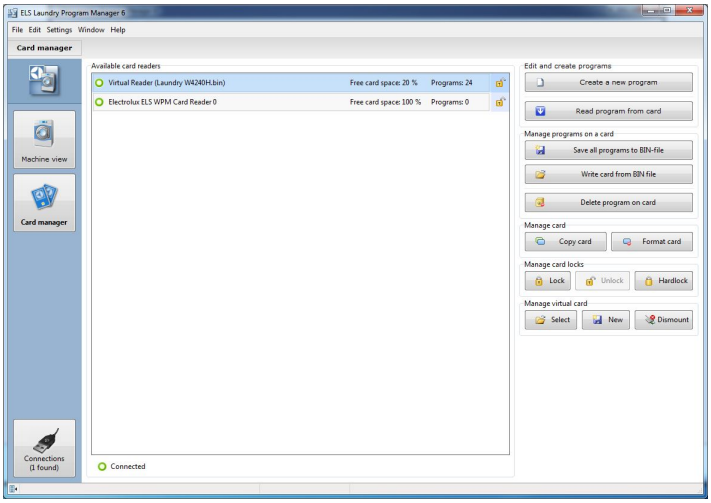


fig.W00345

The **Card manager** allows you to perform the below operations, regardless if you are using a Clarus Control memory card in an Electrolux USB card reader, or a virtual card in a Virtual reader. (*.bin file from your hard drive).

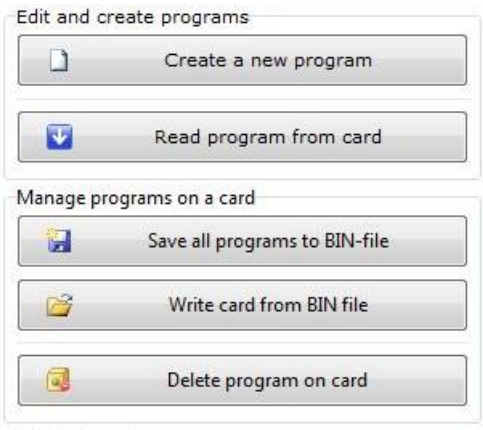


fig.W00346

Create a new program: Opens the **Select machine type** window to select a Clarus Control machine file and open it in **Program editor**.

When a Virtual card reader or a Clarus Control Memory card reader is selected, additional options are available.

Read program from card: Opens the **Read program from card** dialog and lets you select a program from the memory card or virtual card to be opened in **Program editor**.

Save all programs to BIN-file: Opens the **Save card to BIN-file** dialog to save the content of a Clarus Memory card into a *.bin-file that can be stored on your hard drive for later use or to send the content of a memory card as an email attachment. The *.bin-file can also be opened in the virtual card reader.

Write card from BIN-file: Opens the **Write card from BIN-file** dialog to write a *.bin-file that is stored on your hard drive, onto a Clarus Memory card. **Note!** This operation will overwrite the existing data on the memory card.

Delete program from card: Opens the **Delete program from card** dialog to delete a program from a Clarus Memory card or from a Virtual card.

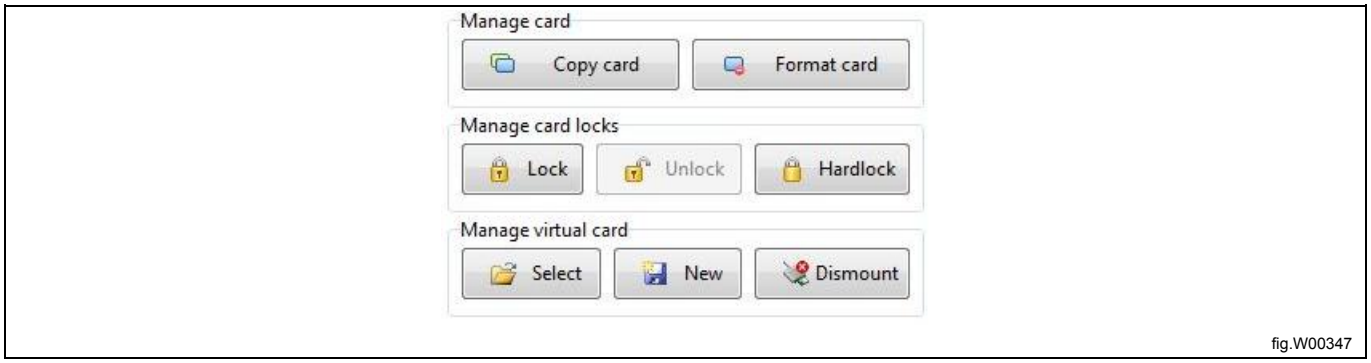


fig.W00347

Copy card: Lets you copy the content from one Clarus memory card to another. See section: Copy a memory card.

Format card: This operation restores the Memory card to an empty formatted card.

Note!

This operation will remove all existing programs on the memory card.

Lock, Unlock and Hardlock: You can lock a memory card from being copied or edited. A locked card can be unlocked by clicking **Unlock** . A hardlocked card can not be unlocked.

Select, New and Dismount: These functions are used only by Virtual reader, to select an existing, to create a new, and to dismount a virtual card. Virtual card reader uses *.bin files as the memory card.

You can perform all actions on a virtual card the same way as on a physical memory card

If you have more than one card reader connected, e.g. ELS USB Card reader and a virtual reader, you will have to select which reader you want to use.

Note!

Programs on Clarus Memory card are not tagged with machine model. This means that a program can be opened using wrong machine file. However, LPM limits values that exceed the minimum or maximum allowed in the selected machine file.

Hint! Make a note in each program for which machine model it is intended. Preferably this can be done in the Program free text section. See section: Creating a new program.

5.4 Connections

Connections pane shows information on USB and COM ports (A) as well as connected machines (B).

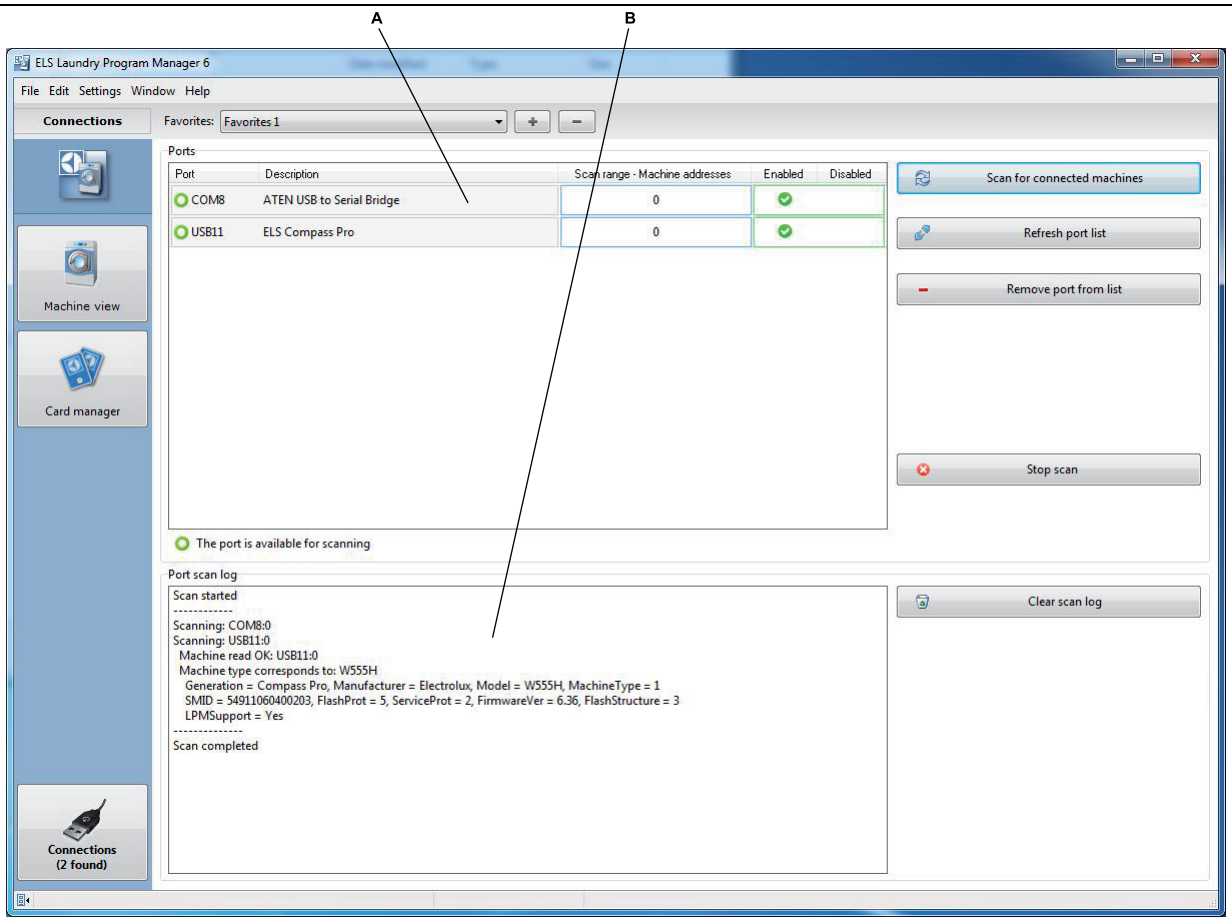


fig.W00348

Scan for connected machines: Starts scanning sequence for connected machines on the available ports. This function is also available in Machine view.

Refresh port list: This function will refresh the list of available ports. Ports that have been removed (see below) will be added again.

Remove port from list: Will remove the selected port from the Connections pane.

Stop scan: This will stop an ongoing scan sequence

Clear scan log: This will clear the logged information from the last scanning sequence.

The Ports list shows information about the available ports on your computer, such as port number, description (from driver), present scan range for machine addresses and port enabled or disabled.

As default all found ports are enabled and Scan range setting is “0”, which means connection to an individual machine. The address in the machine is then ignored. Connection can always be established with this setting.

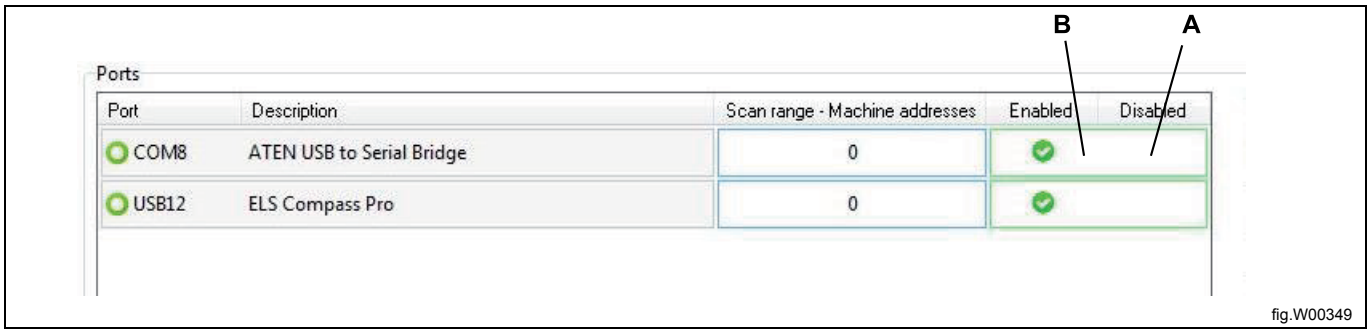
You can disable a port by clicking the **Disabled** (A) field for the port, if you do not want it to be scanned.

It is recommended to disable a port if you know that it will never be used for LPM communication, e.g. ports used for modems, bluetooth or other wireless devices.

Click in the **Enabled** (B) field for a port to enable it again.

If you have machines connected in an ELS Network, you can change the scan range to include several addresses. State individual addresses separated by comma, (1,5,7) or an interval (1-127).

If you change the scan range setting or disable a port, these settings will be kept for next start of LPM.



6 Creating or editing program

6.1 Creating a new program

1. Start in the **Machine view**, by selecting the machine you want to build the new program for.
2. Click **Create a new program**.

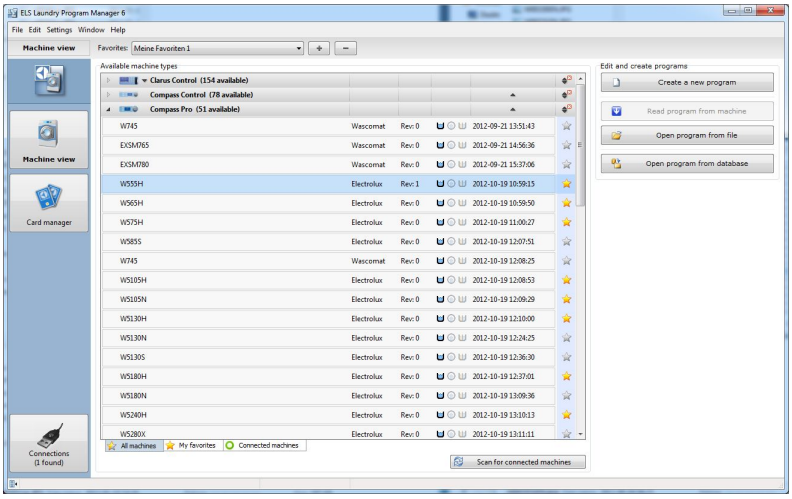


fig.W00351

3. A new empty program will open and be displayed in **My program** pane in **Program editor**.
4. Add and edit program modules. See section: Program editor.
5. Click the **Change name/Free text** button (A) to open the dialog.

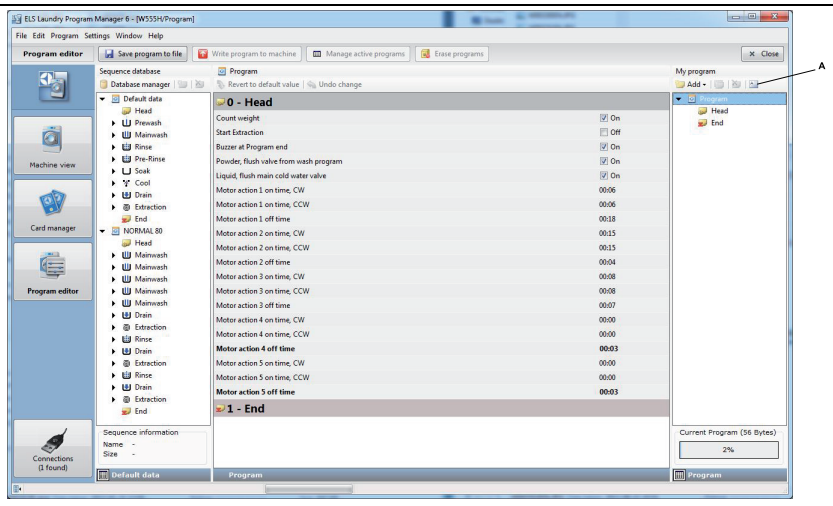


fig.W00352

6. Give your program a new name and add some additional text if needed. When you are creating programs for Clarus control, the **Free text** field can be used to state machine model for which the program is made.

fig.W00353

6.2 Editing an existing program

6.2.1 From an .lpf or .wpf file

An .lpf file is saved to your hard disk and always contains a single program. The file is opened automatically using the machine file it was saved with, but it can be converted to a different machine. See section: Converting an *.lpf or *.wpf file to a different machine.

The .wpf format, previously used by Wash Program Manager can also be handled by LPM.

1. Open the **File** menu and select **Open** or click the **Open program from file** button in the **Machine view** toolbar.

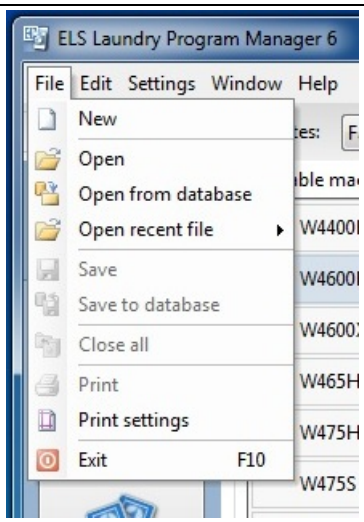


fig.W00354

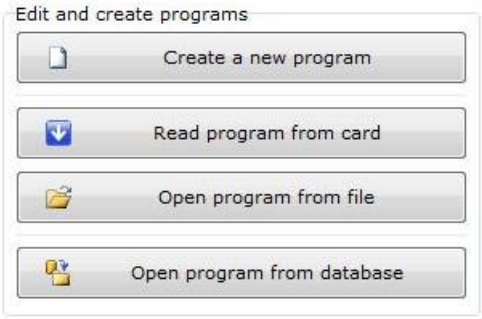
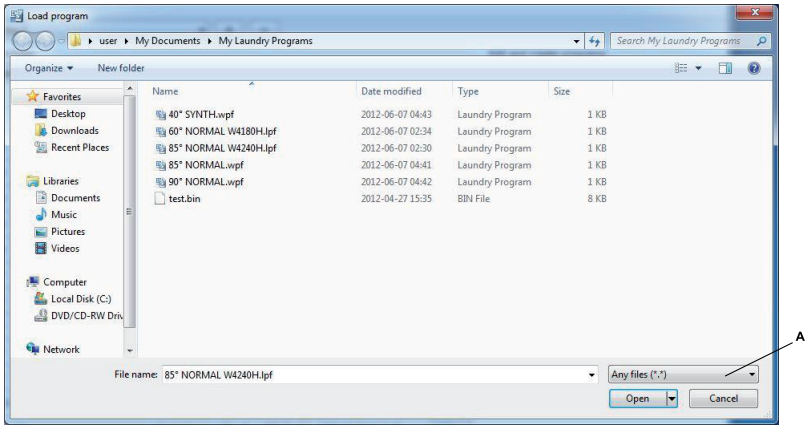


fig.W00333

2. Highlight the program file you want to edit and click **Open**.

Note that you need to select which type of file you want to open (*.lpf or *.wpf) from the file type drop down menu, or select Any files to view all types (A).



W00355

3. The program will open and be displayed in **My program** pane in **Program editor**.
4. Add and edit program modules. See section: Program editor.

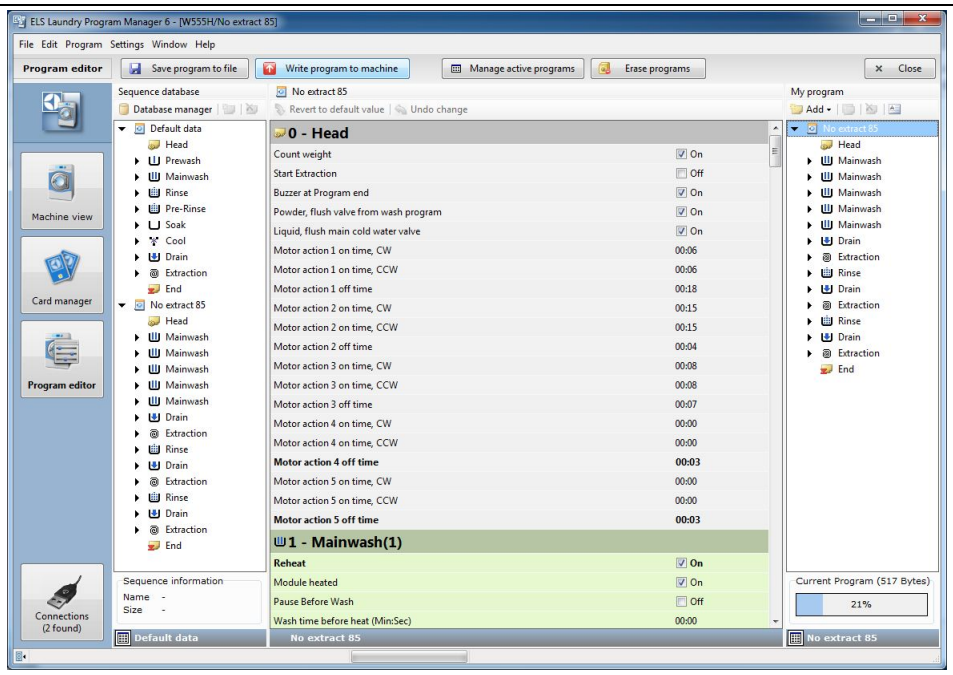


fig.W00356

6.2.2 From a memory card (only Clarus Control)

1. Go to the **Card manager** and select the card reader you want to read from. (Electrolux ELS Card reader or Virtual reader).
2. Click **Read program from card** in the toolbar or double click the Card Reader.

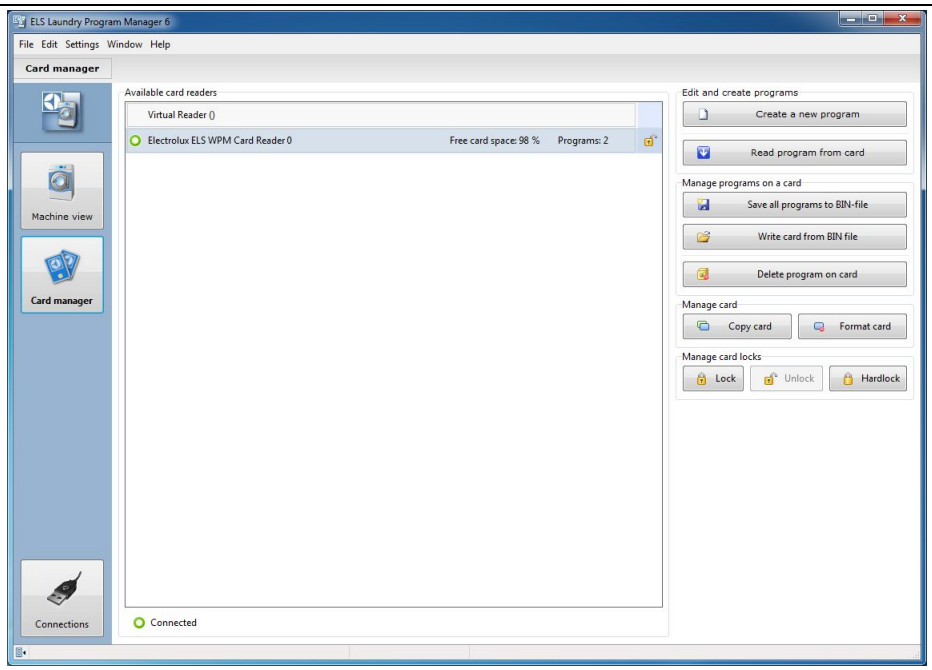


fig.W00357

As programs on a memory card does not contain information about what machine type it was originally made for, you must select the proper model from the Select machine type window.

3. In the **Select machine type** window, double click on correct machine type, or select and click **OK**.

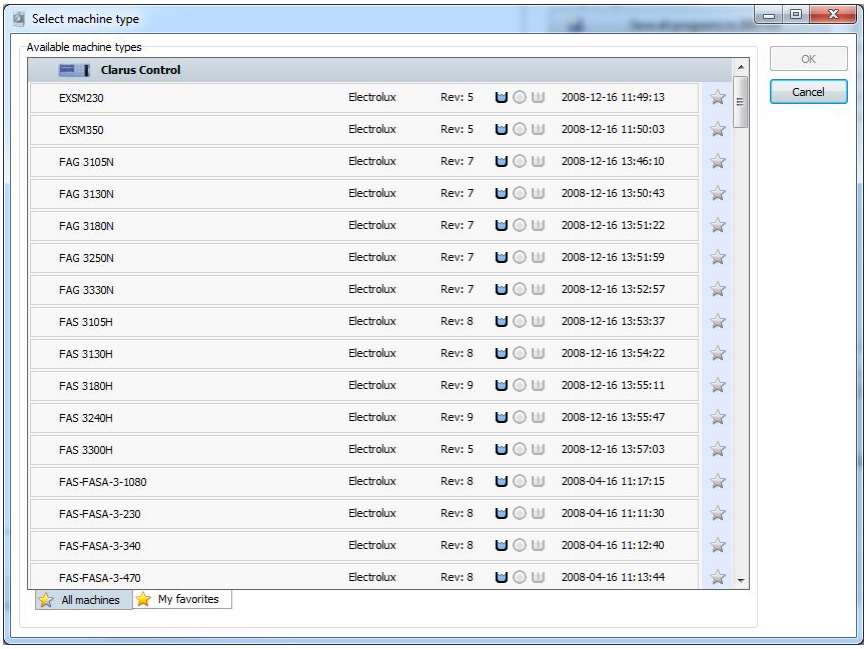


fig.W00358

4. A list will now appear showing the programs available on the memory card.
5. Select the program to be edited and click **Read**.

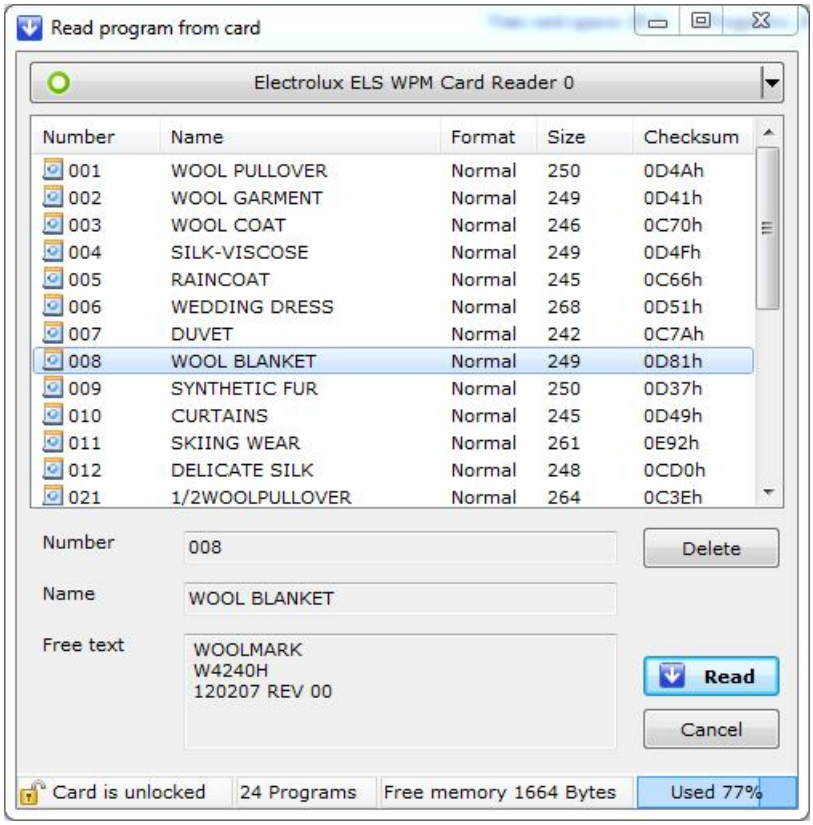


fig.W00359

6. The selected program will open and be displayed in **My program** pane in **Program editor**.
7. Add and edit program modules. See section: Program editor.

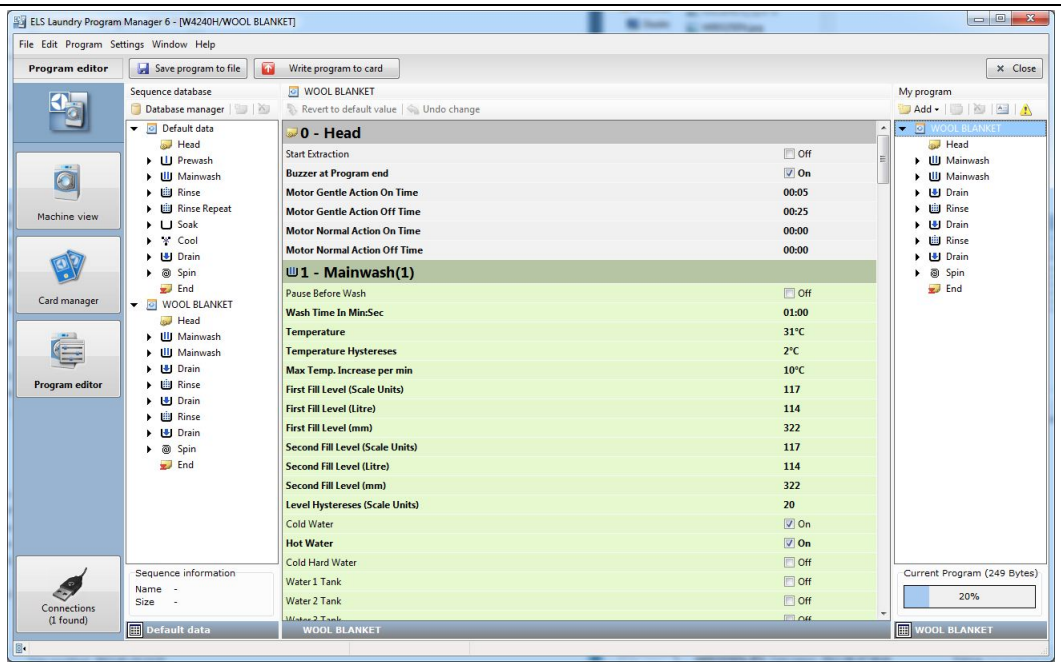


fig.W00356B

6.2.3 From a .bin file (only Clarus Control)

There are two ways to open a program from a .bin file:

- Write the .bin file to a memory card and then open the program.
- Open the .bin file using a virtual reader.

6.2.3.1 Write the .bin file to a memory card

1. Go to the **Card manager** and select the Memory card reader you want to read from.
2. Click **Write card from bin file** in the toolbar.

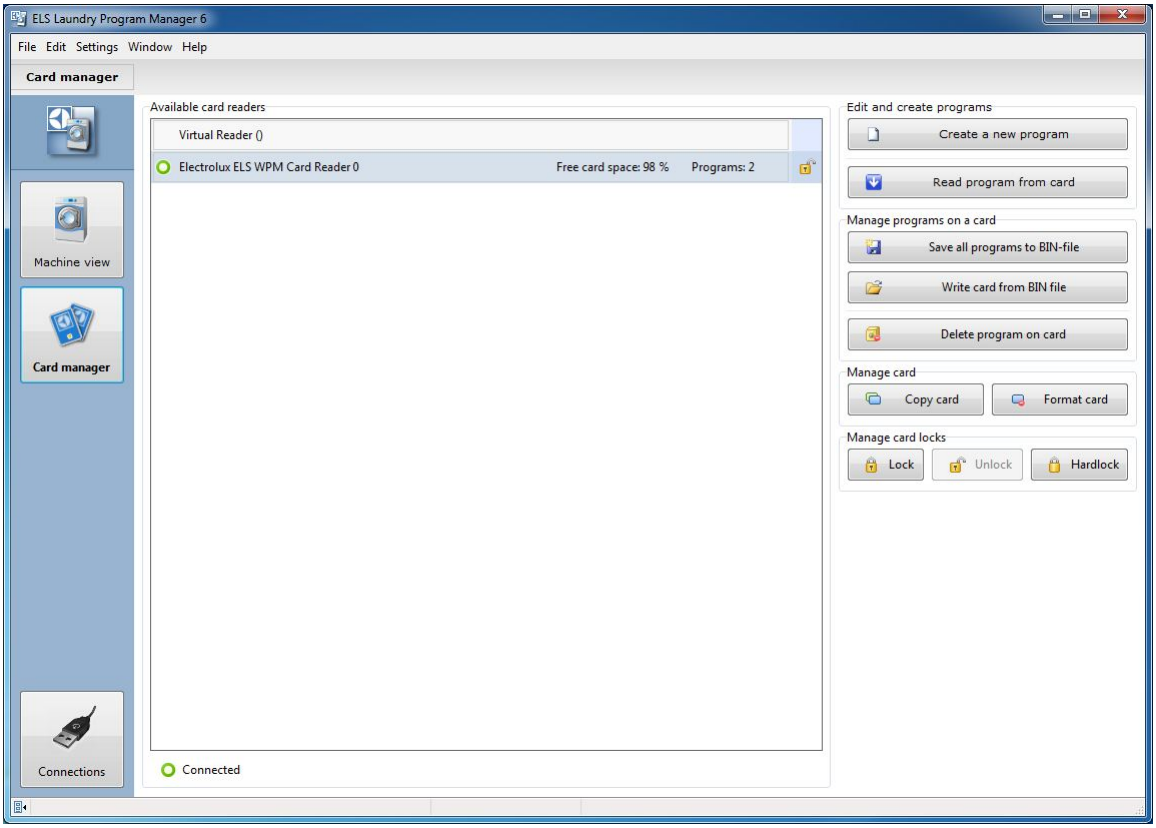


fig.W00357

3. In the **Load program** window, double click on correct *.bin file, or select and click **Open**.
4. Once the *.bin file is written to the memory card, follow steps in: From a memory card.

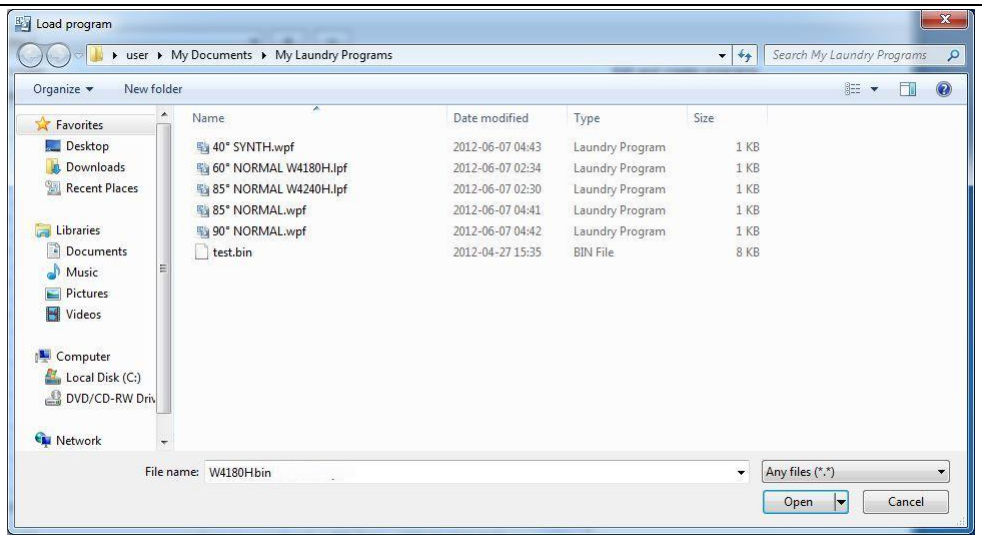


fig.W00361

6.2.3.2 Open the .bin file in virtual card reader

1. Go to the **Card manager** and select Virtual reader (A). Click **Select** to open the **Select virtual card** dialog (B).

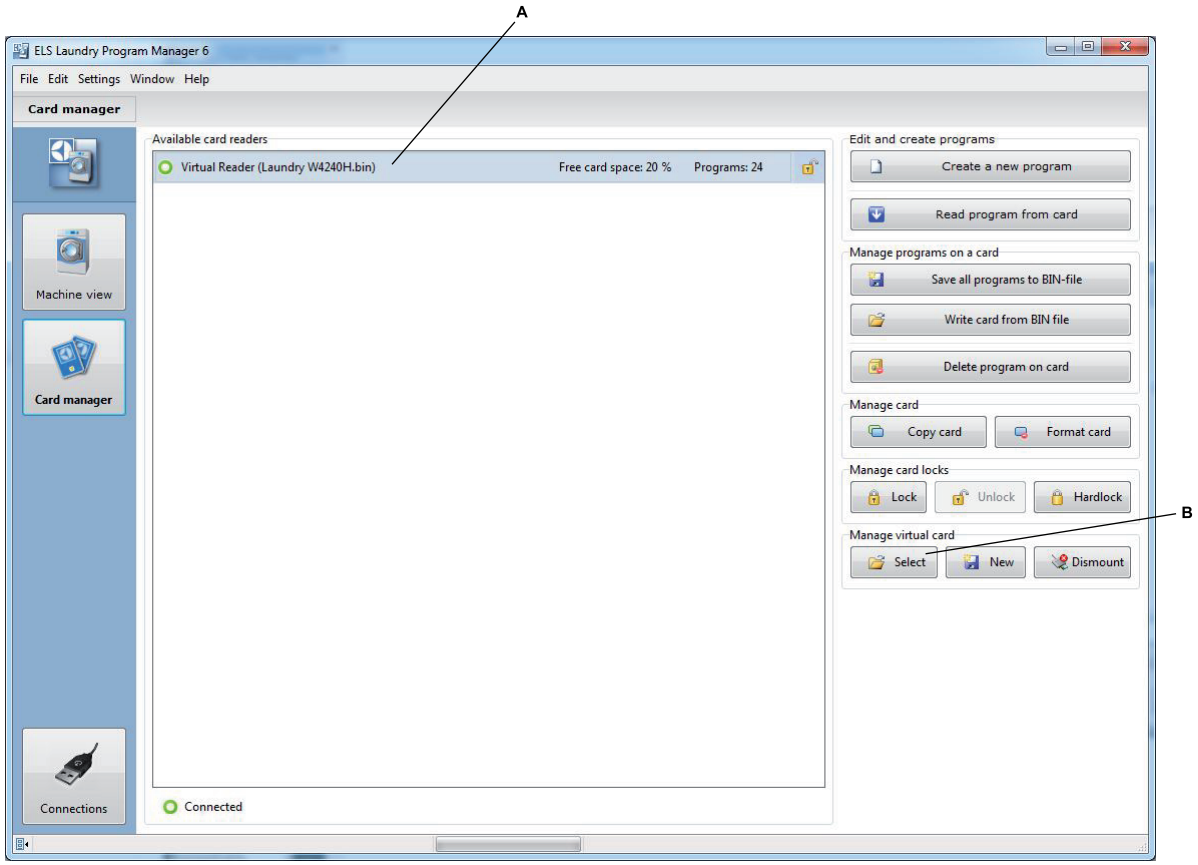


fig.W00362

2. Select the *.bin file you want to use as Virtual card, and click "Open". If you already have a *.bin file connected to your Virtual card reader, it will be dismounted and the selected *.bin file will be connected instead.
3. Once the *.bin file is visible in the Virtual reader, follow steps in section From a memory card.

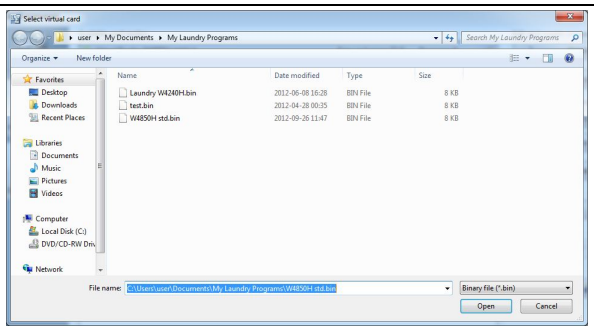


fig.W00363

6.2.4 From a program device (only Compass Control and Compass Pro)

Editing programs for Compass Control and Compass Pro is normally done in the CPU itself and requires that your computer is connected to the powered-up program device. See sections: Scanning for connected machines.

1. Go to the **Machine view** and select the connected machine you want to read from.
2. Click **Read program from machine** in the toolbar.

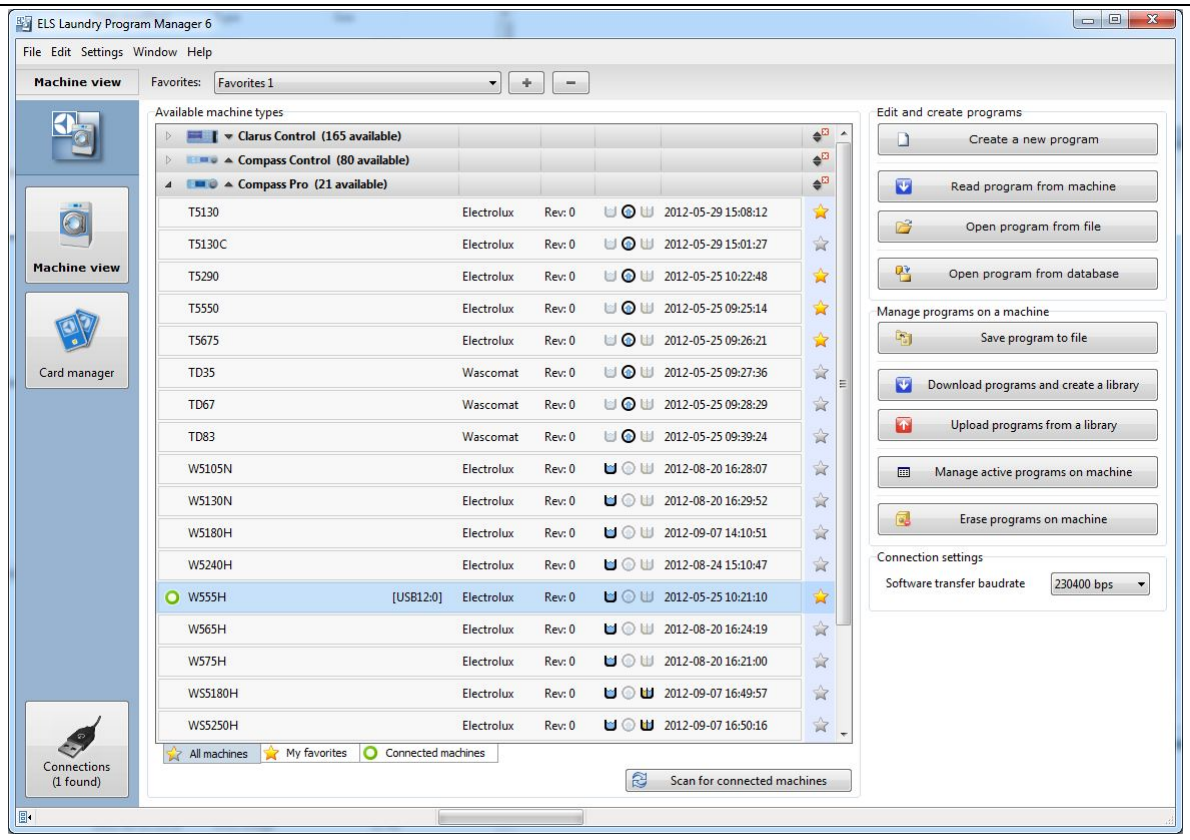


fig.W00364

3. A list will now appear showing the programs available in the machine memory.
4. Select the program to be edited and click **Read**.

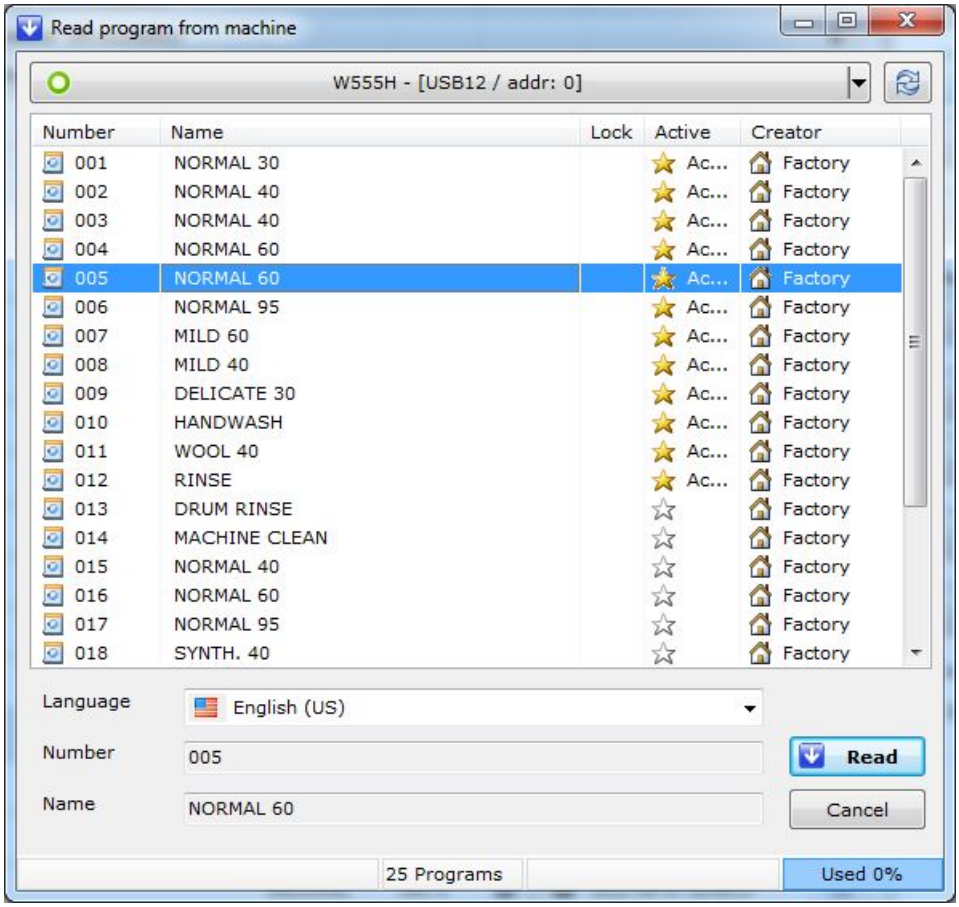


fig.W00365

5. The selected program will open and be displayed in **My program** pane in **Program editor**.
6. Add and edit program modules. See section: Program editor.

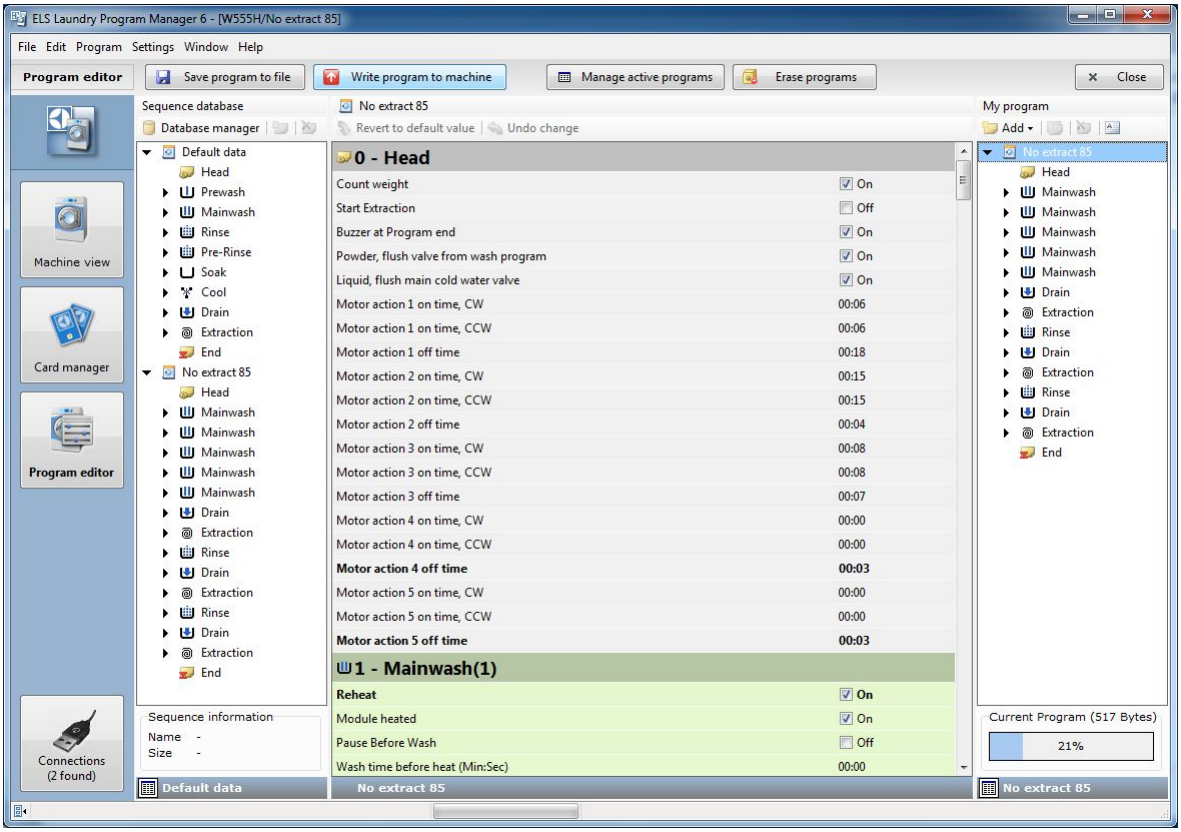

ELS Laundry Program Manager 6 - [W555H/No extract 85]
File Edit Program Settings Window Help
Program editor
Save program to file
Write program to machine
Manage active programs
Erase programs
Close
Machine view
Card manager
Program editor
Connections (2 found)
Sequence database
Database manager
Default data
Head
Prewash
Mainwash
Rinse
Pre-Rinse
Soak
Cool
Drain
Extraction
End
No extract 85
Head
Mainwash
Mainwash
Mainwash
Mainwash
Mainwash
Drain
Extraction
Rinse
Drain
Extraction
Rinse
Drain
Extraction
Rinse
Drain
Extraction
End
Sequence information
Name -
Size -
Default data
No extract 85
Revert to default value
Undo change
0 - Head
Count weight On
Start Extraction Off
Buzzer at Program end On
Powder, flush valve from wash program On
Liquid, flush main cold water valve On
Motor action 1 on time, CW 00:06
Motor action 1 on time, CCW 00:06
Motor action 1 off time 00:18
Motor action 2 on time, CW 00:15
Motor action 2 on time, CCW 00:15
Motor action 2 off time 00:04
Motor action 3 on time, CW 00:08
Motor action 3 on time, CCW 00:08
Motor action 3 off time 00:07
Motor action 4 on time, CW 00:00
Motor action 4 on time, CCW 00:00
Motor action 4 off time 00:03
Motor action 5 on time, CW 00:00
Motor action 5 on time, CCW 00:00
Motor action 5 off time 00:03
1 - Mainwash(1)
Reheat On
Module heated On
Pause Before Wash Off
Wash time before heat (Min:Sec) 00:00
No extract 85
My program
Add
No extract 85
Head
Mainwash
Mainwash
Mainwash
Mainwash
Mainwash
Drain
Extraction
Rinse
Drain
Extraction
Rinse
Drain
Extraction
End
Current Program (517 Bytes)
21%
No extract 85

fig.W00356

6.2.5 From a program library file, *.wpl. (only Compass Control and Compass Pro)

A program cannot be opened directly in a *.wpl file. Instead, in order to edit a program in a library file, it first has to be uploaded to the program device.

1. Go to the **Machine view** and select the connected machine you want to read from.
2. Click **Upload programs from library** in the toolbar.

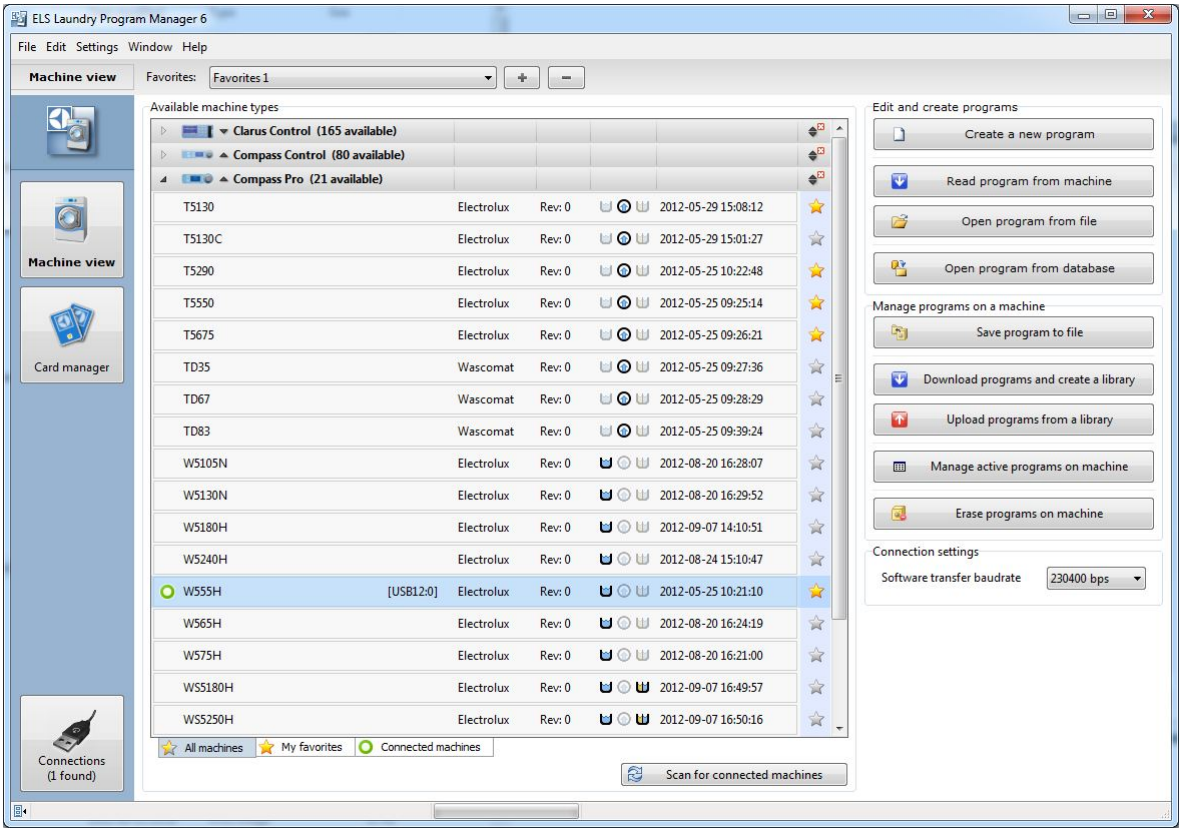


fig.W00364

3. In the **Select library file** window, select the *.wpl file you want to upload, and click **Open**.

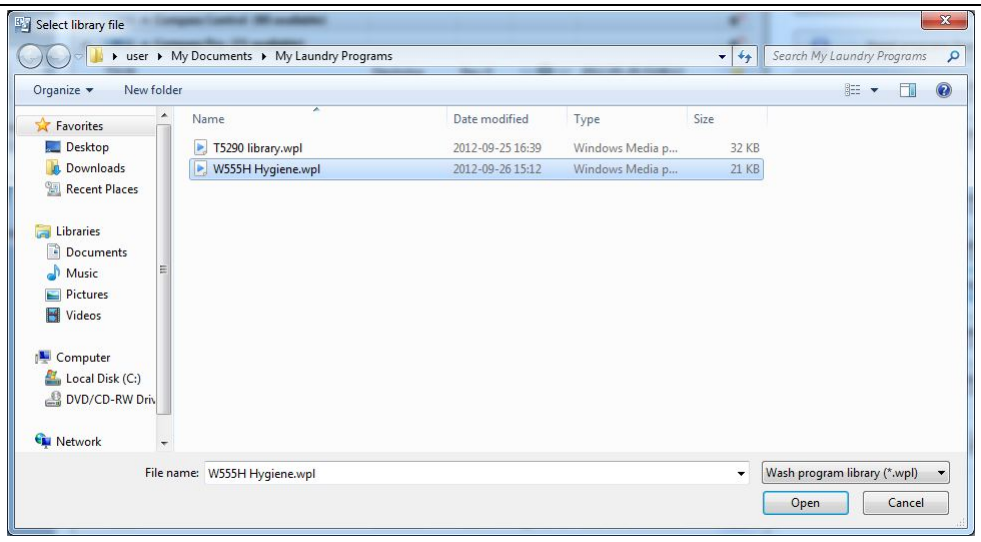


fig.W00366

It will take a few seconds to read the information in the *.wpl file and in the connected machine. A window will open and the information will be presented.

4. In the **Upload library programs to machine** window, select one, more or all programs in the *.wpl file to be uploaded.

5. Click **Upload programs**. **Note that all programs that you write to the program device will be activated automatically.** You can deactivate programs using **Manage activated programs** function later on.

6. Select the program you want to edit, following the steps in section: From a program device.

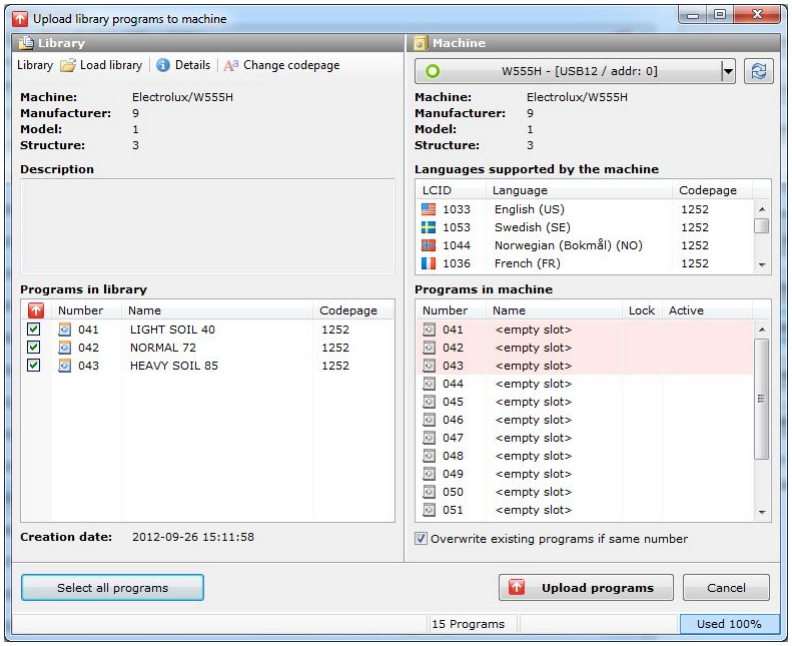


fig.W00367

In order to upload programs to machine, the library information about machine model, manufacturer and structure must match what is contained in the machine. The codepage (font table) stated in the library, must also be present in the machine. If there is a mismatch between *.wpl file and machine, the upload will be interrupted and a message shown.

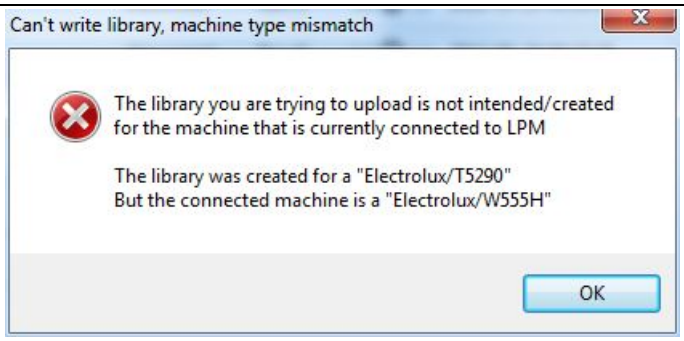


fig.W00368

6.2.6 From Sequence database

The **Sequence database** contains as default the factory set of program modules (**Default data**). These can not be changed or deleted, but you can use the modules to build a new program. However, user made program sequences that have been saved to the **sequence database** using the **Save to database** function can be deleted or edited.

1. Go to the **Machine view** and select the machine you want to create a program for.
2. Click **Open program from database** in the toolbar.

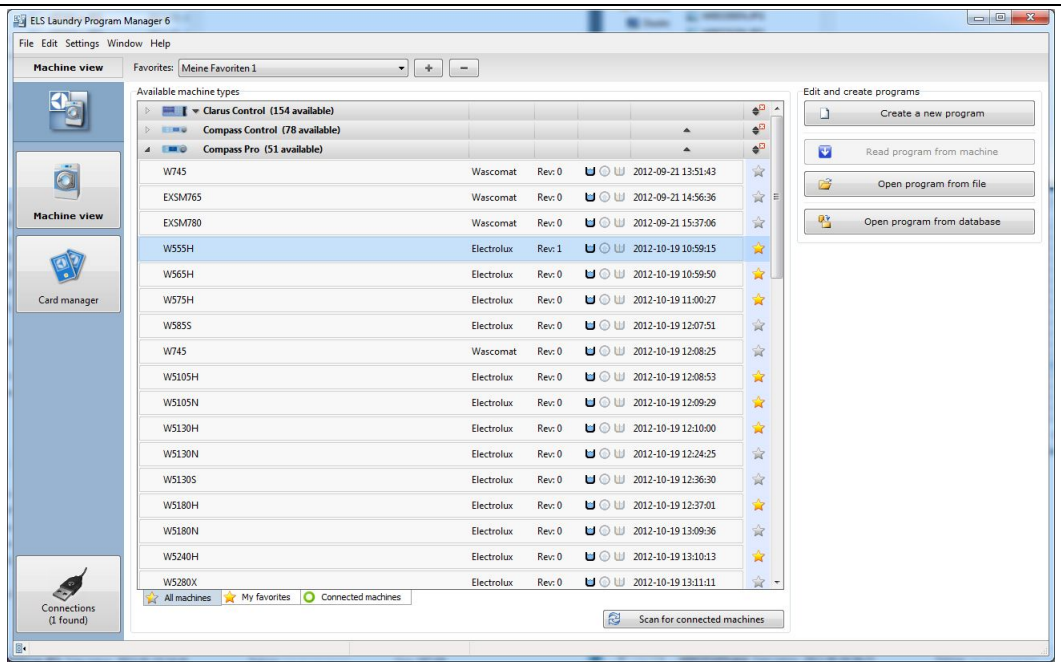


fig.W00351

3. Select the database file you want to use as a template, and click **Open**.

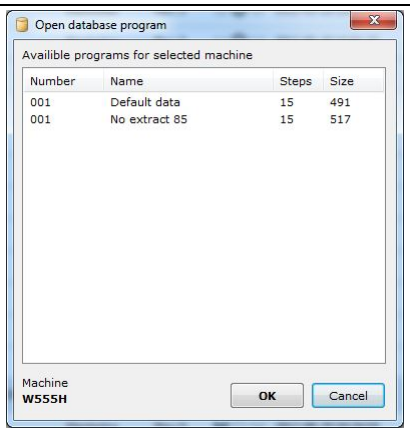


fig.W00369

4. The selected program will open and be displayed in **My program** pane in **Program editor**.
5. Add and edit program modules. See section: Program editor.

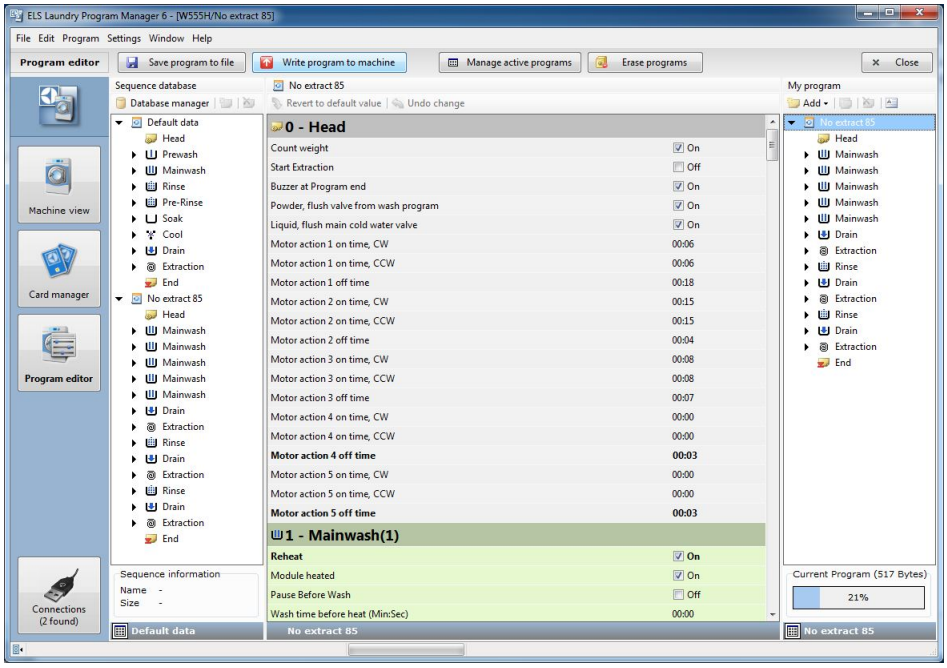

ELS Laundry Program Manager 6 - [W555H/No extract 85]
File Edit Program Settings Window Help
Program editor
Save program to file
Write program to machine
Manage active programs
Erase programs
Close
Machine view
Card manager
Program editor
Connections (2 found)
Sequence database
Database manager
Default data
Head
Prewash
Mainwash
Rinse
Pre-Rinse
Soak
Cool
Drain
Extraction
End
No extract 85
Head
Mainwash
Mainwash
Mainwash
Drain
Extraction
Rinse
Drain
Extraction
Rinse
Drain
Extraction
End
Sequence information
Name -
Size -
Default data
No extract 85
Revert to default value
Undo change
0 - Head
Count weight On
Start Extraction Off
Buzzer at Program end On
Powder, flush valve from wash program On
Liquid, flush main cold water valve On
Motor action 1 on time, CW 00:06
Motor action 1 on time, CCW 00:06
Motor action 1 off time 00:18
Motor action 2 on time, CW 00:15
Motor action 2 on time, CCW 00:15
Motor action 2 off time 00:04
Motor action 3 on time, CW 00:08
Motor action 3 on time, CCW 00:08
Motor action 3 off time 00:07
Motor action 4 on time, CW 00:00
Motor action 4 on time, CCW 00:00
Motor action 4 off time 00:03
Motor action 5 on time, CW 00:00
Motor action 5 on time, CCW 00:00
Motor action 5 off time 00:03
1 - Mainwash(1)
Reheat On
Module heated On
Pause Before Wash Off
Wash time before heat (Min:Sec) 00:00
No extract 85
My program
Add
No extract 85
Head
Mainwash
Mainwash
Mainwash
Mainwash
Mainwash
Drain
Extraction
Rinse
Drain
Extraction
Rinse
Drain
Extraction
End
Current Program (517 Bytes)
21%
No extract 85

fig.W00356

7 Deleting program

7.1 *.lpf or *.wpf file

From an Explorer Window, open the folder in which the program is located. Select the program and click the **Delete** button on your keyboard.

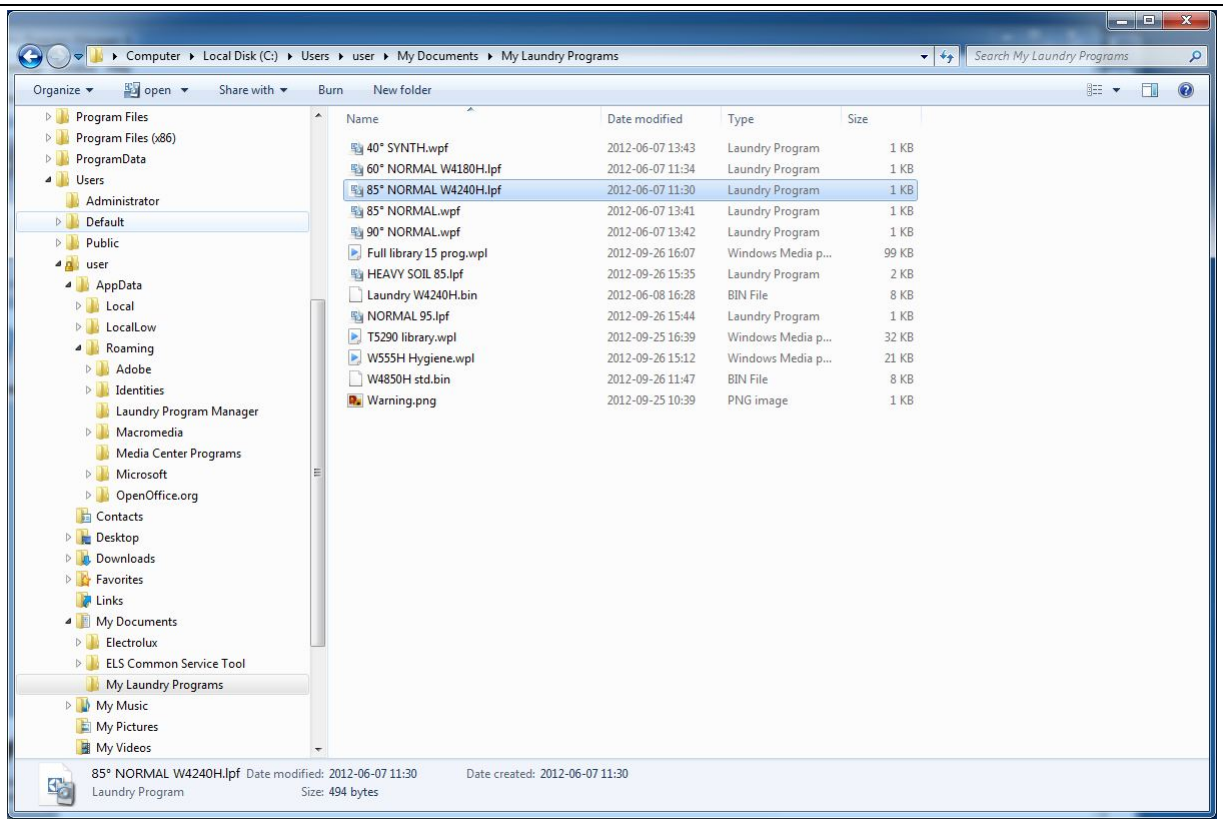


fig.W00370

7.2 From a memory card (only Clarus Control)

1. Go to **Card Manager** and select the reader in which the program is located.
2. Click **Delete program on card**.

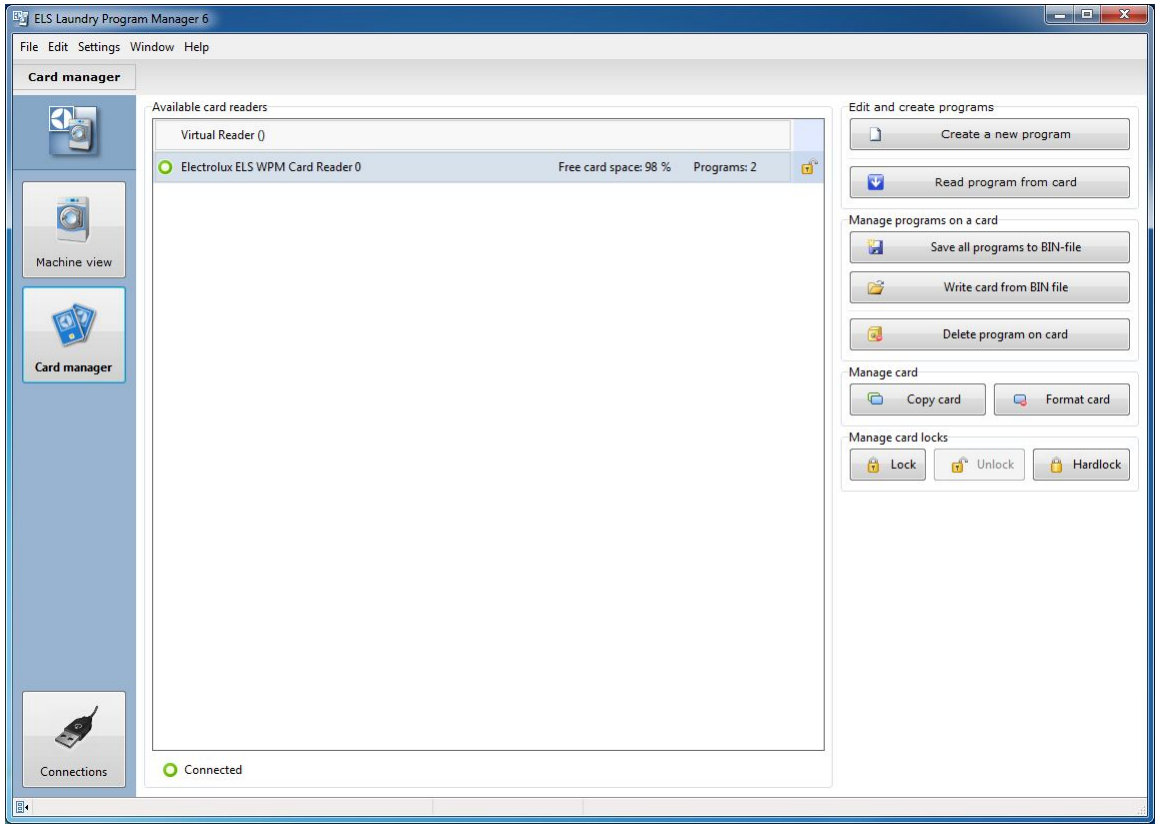


fig.W00357

3. From the list of programs held on the memory card, select the program to be deleted and click **Delete**.

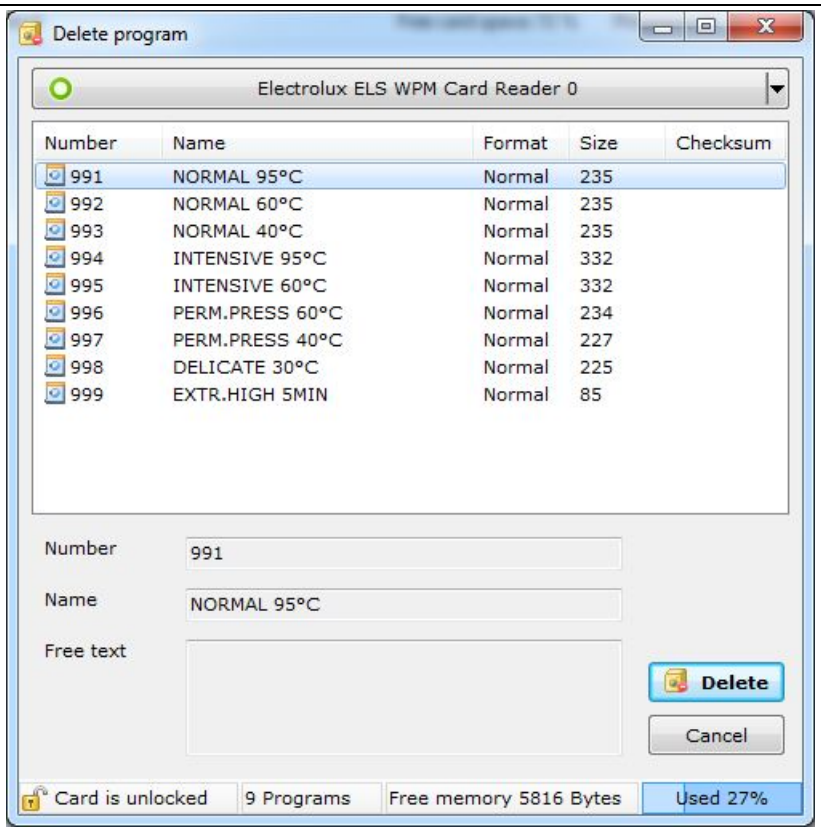


fig.W00371

7.3 From a *.bin file (only Clarus Control)

1. Go to **Card Manager** and select **Virtual reader**.

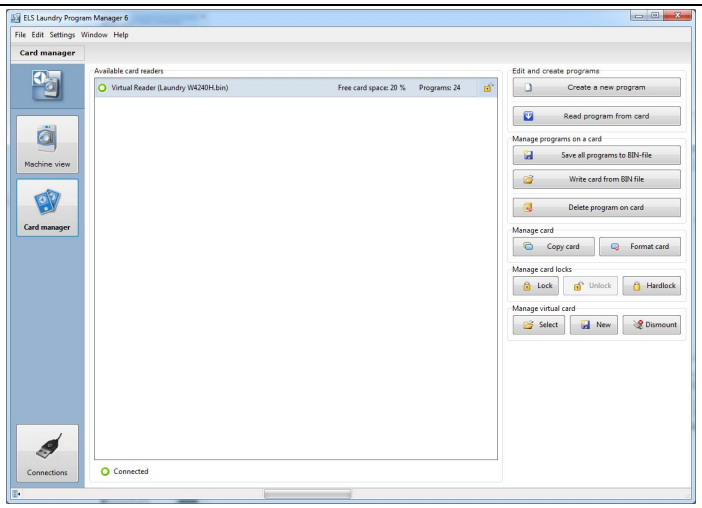


fig.W00362

2. Click **Select** in the **Manage virtual card** section, and select the *.bin file you want to use. If you already have a *.bin file connected to your Virtual card reader, it will be dismounted and the selected *.bin file will be connected instead.

3. Once the *.bin file is visible in the Virtual reader, click **Delete program on card**.

4. From the list of programs in the *.bin file, select the program to be deleted and click **Delete**.

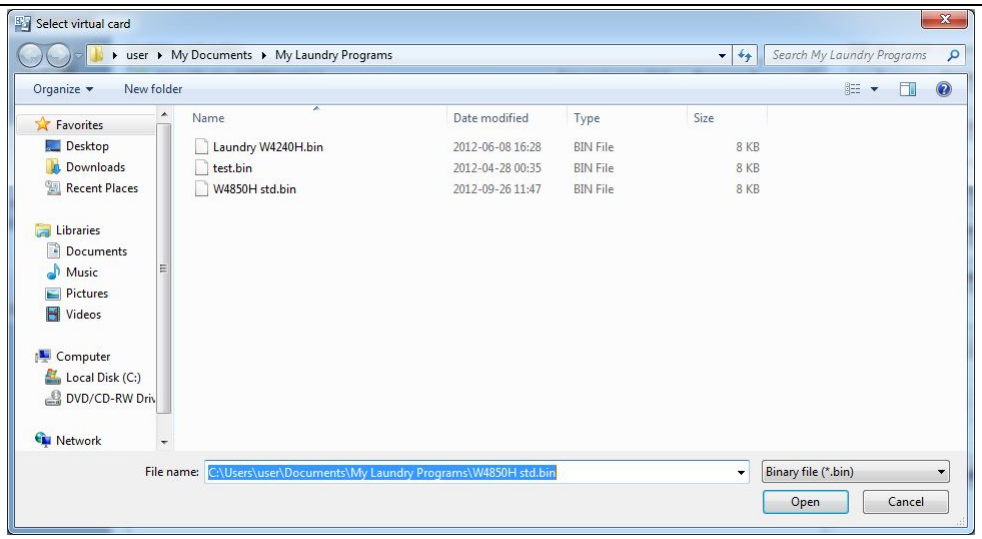


fig.W00363

7.4 From a program device (only Compass Control and Compass Pro)

Deleting programs from Compass Control or Compass Pro CPU requires that your computer is connected to the powered-up program device. See section: Scanning for connected machines.

1. Go to the **Machine view** and select the connected machine you want to delete a program from.
2. Click **Erase program from machine** in the toolbar.

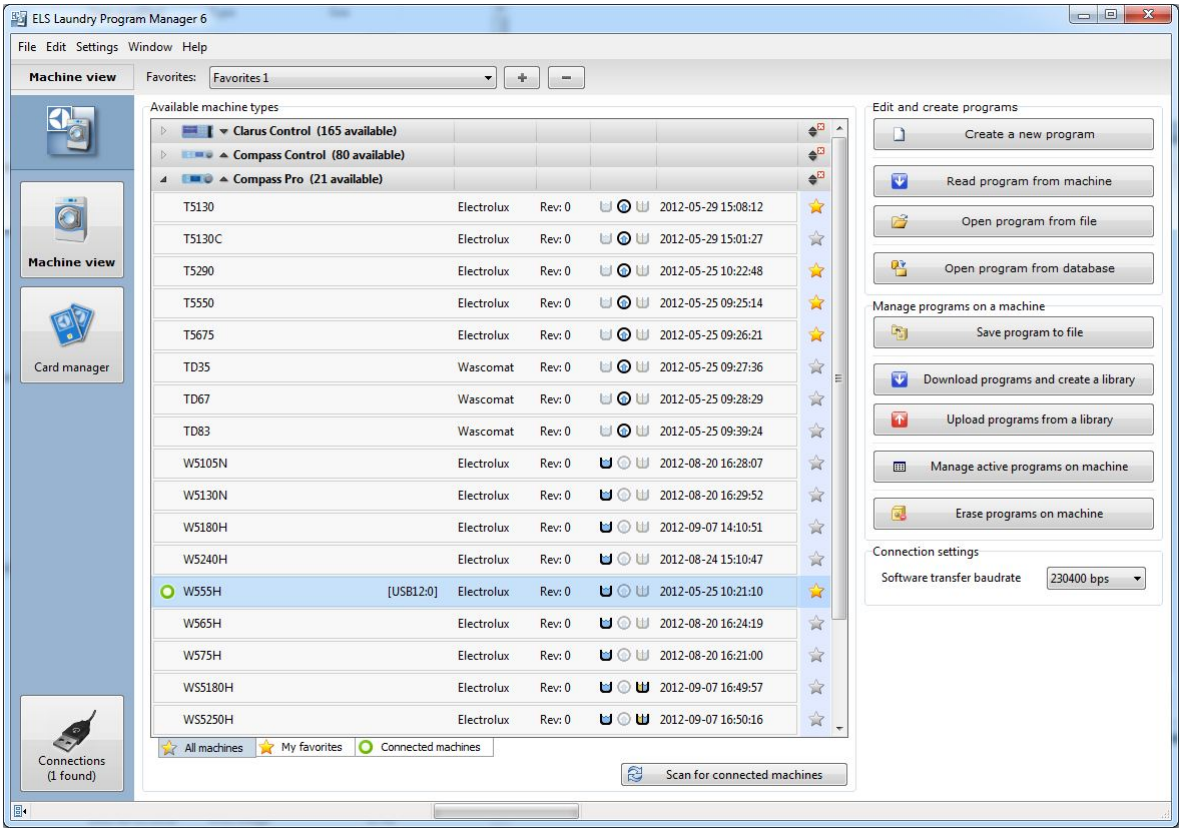


fig.W00364

3. A list will now appear showing the programs available in the machine memory.
4. Select one or more programs to remove by ticking the boxes, and click **Delete**.

Note!

Only user made programs can be deleted from the machine memory.

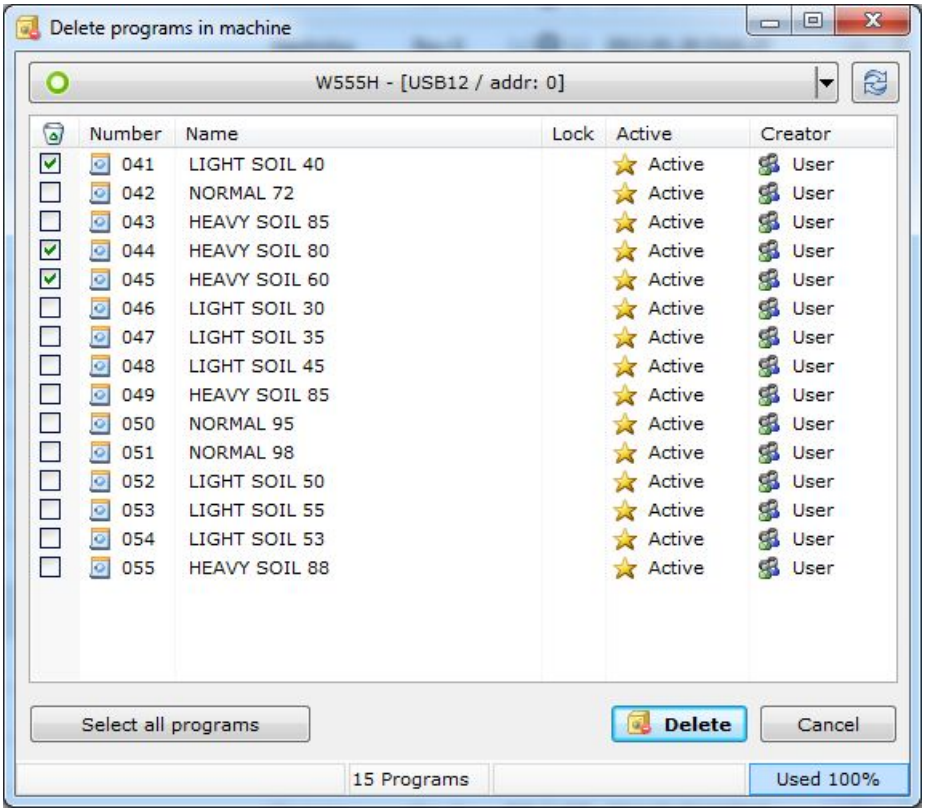


fig.W00372

7.5 From a program library file, *.wpl. (only Compass Control and Compass Pro)

A program cannot be deleted directly in a *.wpl file. Instead, it first has to be uploaded to the program device and then saved again

1. Follow the steps how to upload the program library to program device in section: From a program library file, *.wpl.
2. Go to the **Machine view** and select the connected machine you want to read from.
3. Click **Download programs and create a library** in the toolbar.

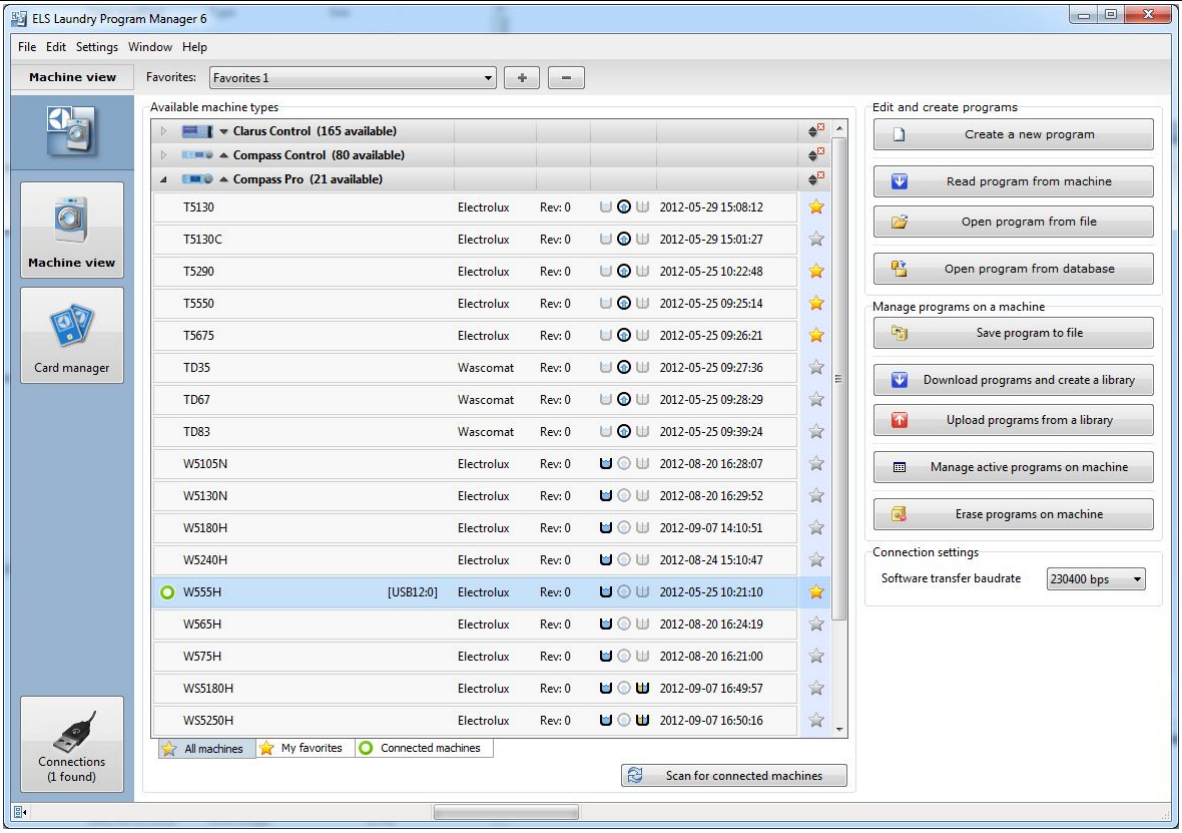


fig.W00364

3. In the **Download programs to library** window, select only the programs you want to include in the new library file, and exclude the one you want to remove.

4. Type any descriptive information for the program library, and click Create.

5. Give the *.wpl file a new name or overwrite the existing and save it to your hard drive.

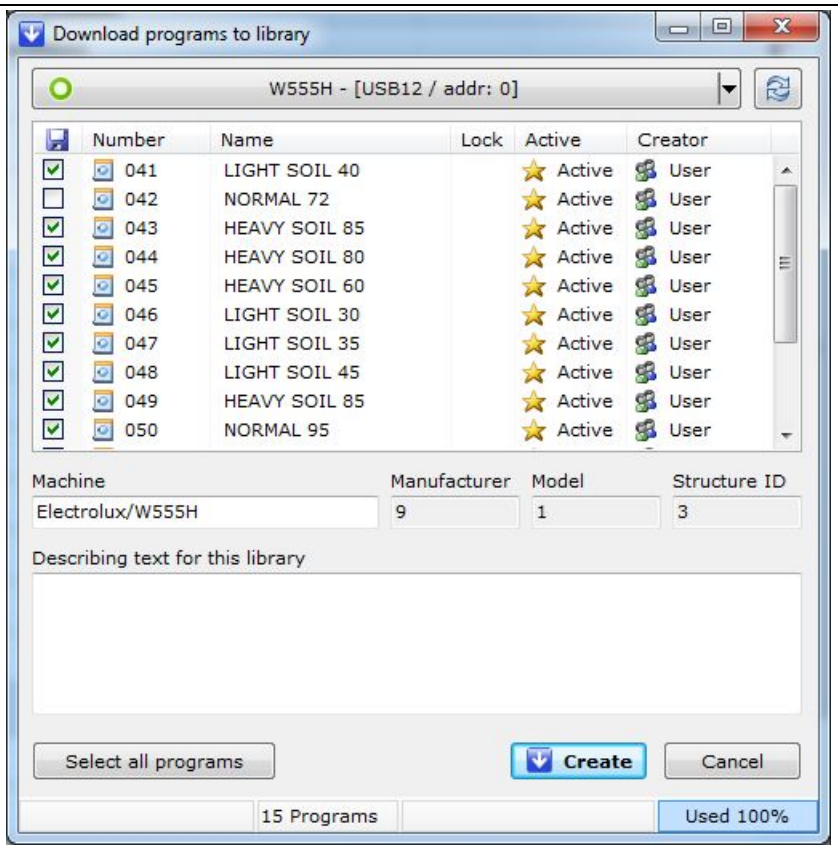


fig.W00373

7.6 From the sequence database

Note!

You can only delete a program that you have previously saved to the Sequence database.

The factory program **Default data** is locked and cannot be deleted.

1. In the **Machine view** , select the relevant machine and click **Create a new program**.

2. In the **Program editor** , in **Sequence database** pane, select the database program you want to remove and click the **Delete** button on your keyboard, or right click and select **Delete program**.

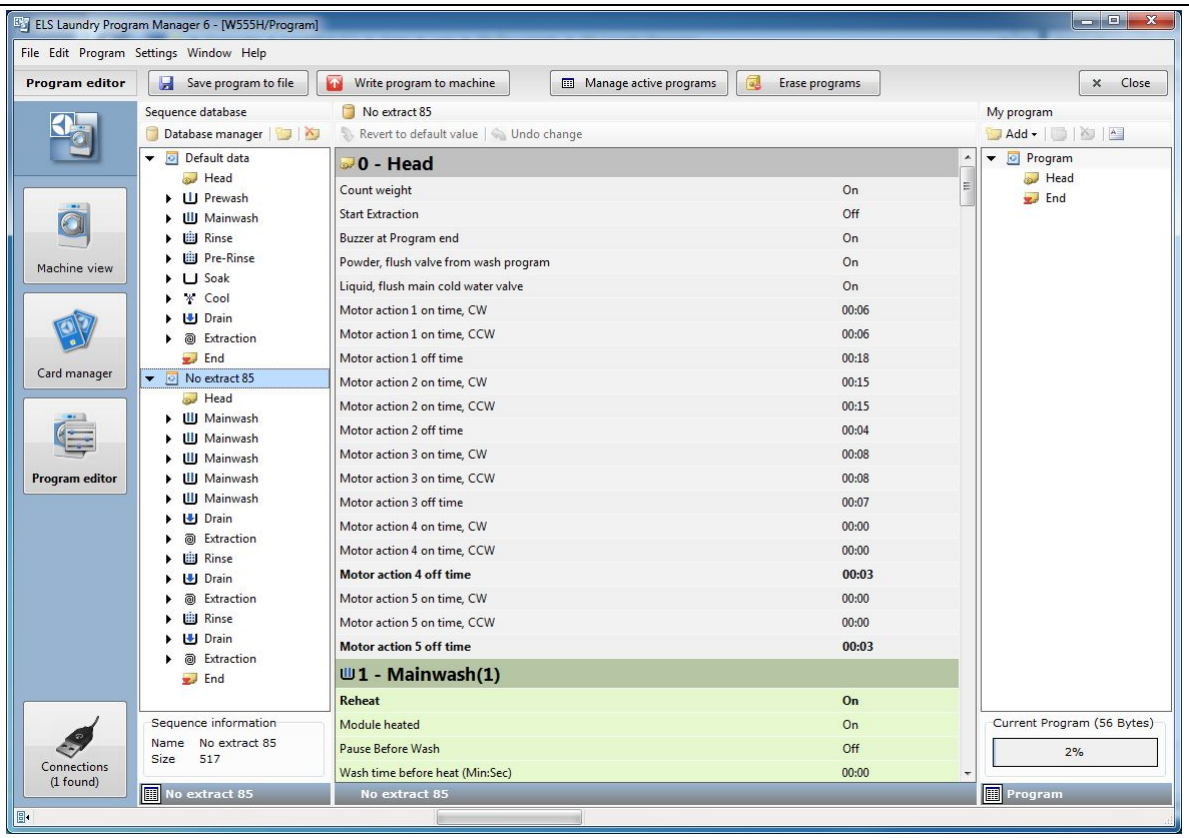


fig.W00374

3. Click **OK** in the **Delete warning** window.

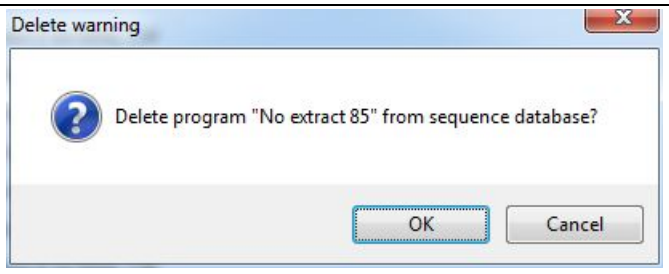


fig.W00375

If you want to delete only a program step from the database program, it must first be moved to the **My program** pane, and then you can delete the module from there.

If you want to remove all available database program for a specific machine, remove the *.seq file located in the same folder as the *.mac files. For correct location, see **Settings** menu under **Directories** tab.

8 Program library

8.1 Program library files

Program libraries are used to create a backup of a set of user made programs.

Depending on control system of the machine, this is done in different ways. Clarus Control uses a *.bin file, and Compass Control and Compass Pro uses a *.wpl file to store the backup.

The Clarus Control *.bin file can also be opened in **Virtual reader** . See section: Card Manager.

Note!

You can not open a Compass Pro *.wpl file into a Compass Control or vice versa.

8.1.1 Create a *.bin file from memory card (only Clarus Control)

The function is mainly used to backup a Clarus Control memory card, or as an easy way to distribute the content of memory cards by e-mail.

The *.bin file is built up and formatted the same way as the Clarus Control memory card.

1. Go to **Card manager** and select Electrolux USB Card reader. Make sure the relevant card is inserted.
2. Click **Save all programs to BIN file** in the toolbar.

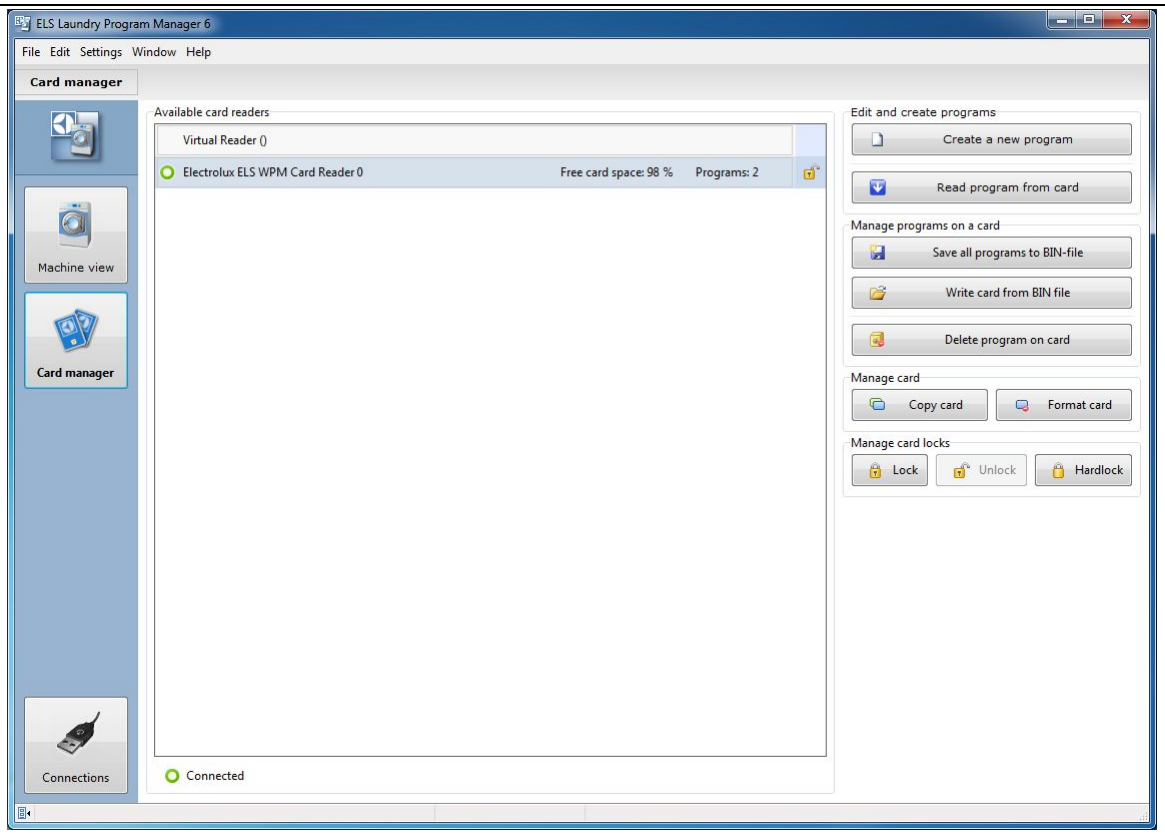


fig.W00344

3. Enter a name for your backup file, or select an existing file to overwrite and click **Save**.

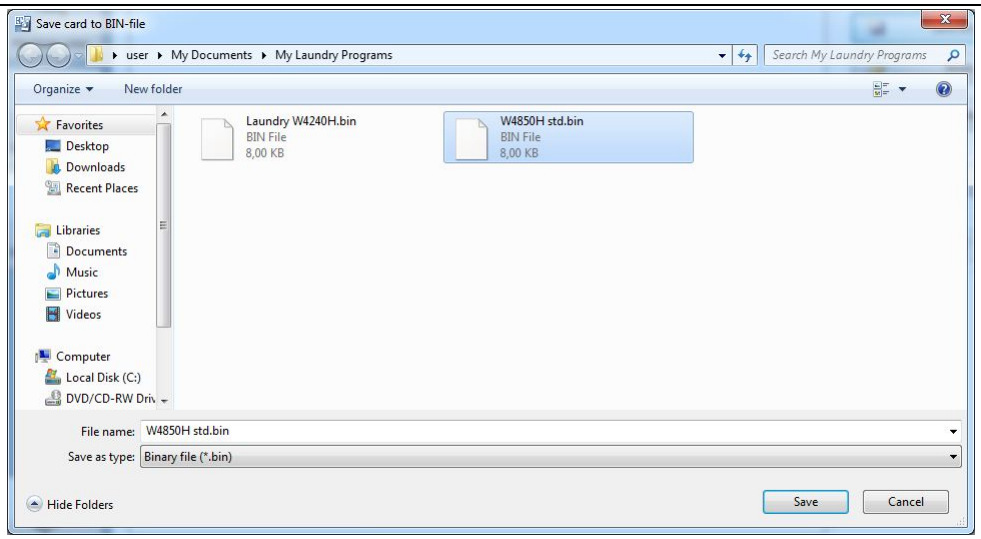


fig.W00377

You can now keep your backup file for later use as a virtual memory card or copy it to a Clarus Memory card using the ELS WPM Card Reader.

The backup file can also be sent as an attachment in an e-mail.

8.1.2 Write a *.bin file to a memory card (only Clarus Control)

This is used to restore a backup from your hard drive to a memory card.

1. Go to **Card manager** and select Electrolux USB Card reader. Make sure an empty card is inserted. (The operation will overwrite all existing programs on the card).

2. Click **Write card from BIN file** in the toolbar.

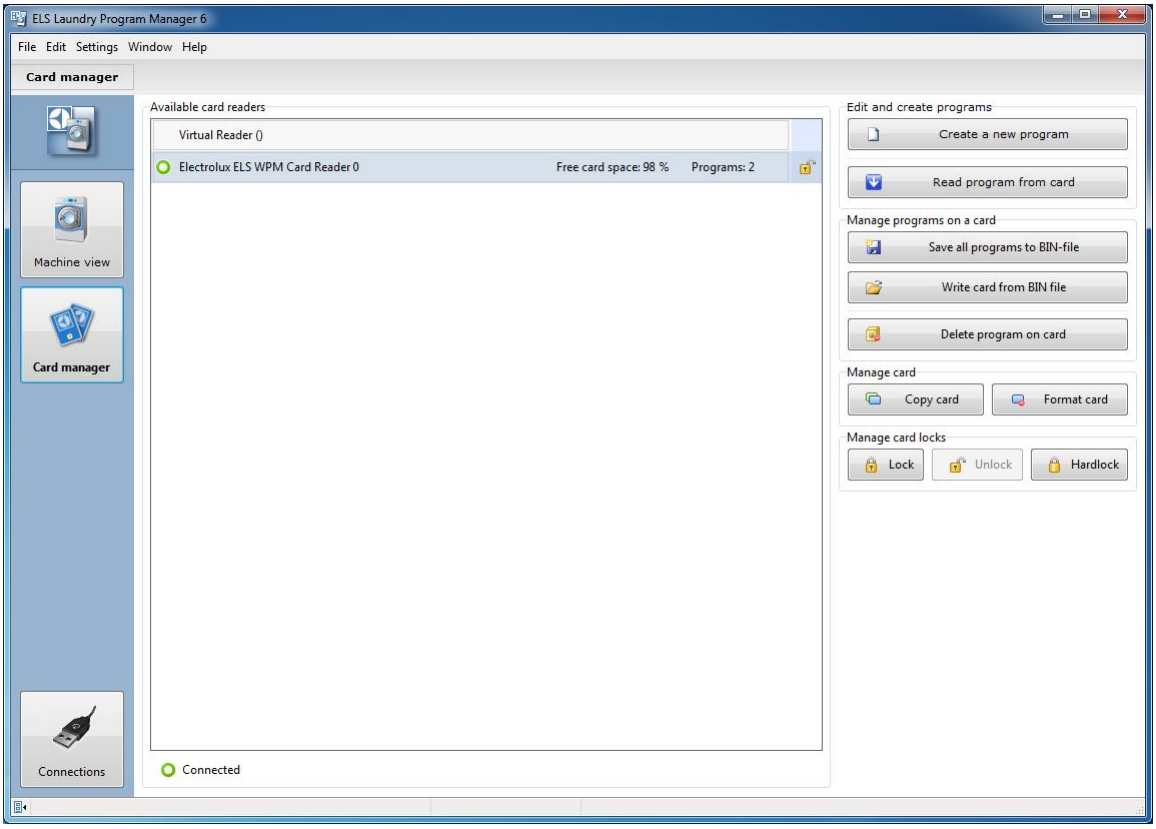


fig.W00344

3. In the **Open file to write card** window, select the *.bin file you want to be copied to the memory card.

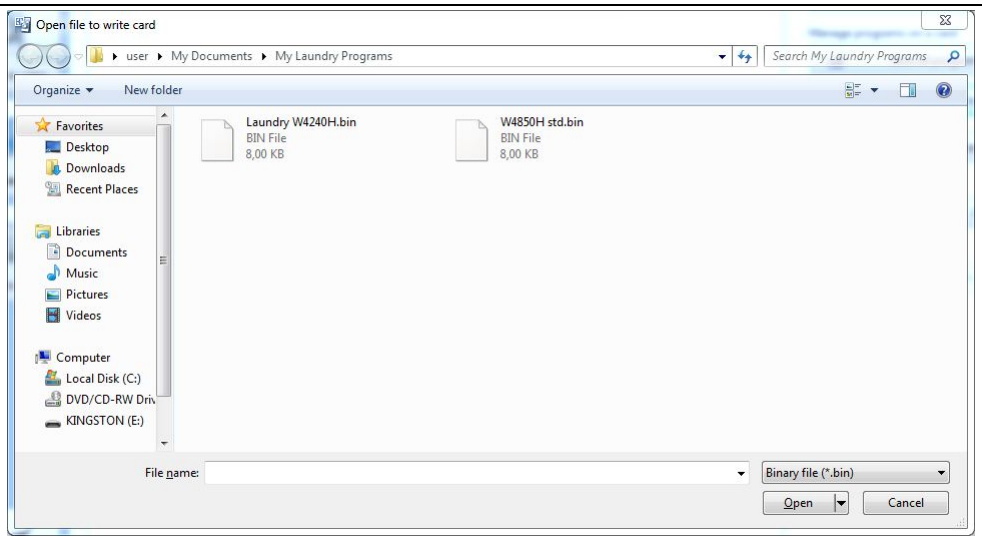


fig.W00378

8.1.3 Create a *.wpl file (only Compass Control and Compass Pro)

This is used to create a backup of user made programs from a control device to your hard drive, and can only be performed if you have a proper control device connected.

1. Go to **Machine view** and select the connected machine.
2. Click **Download programs and create a library** in the toolbar.

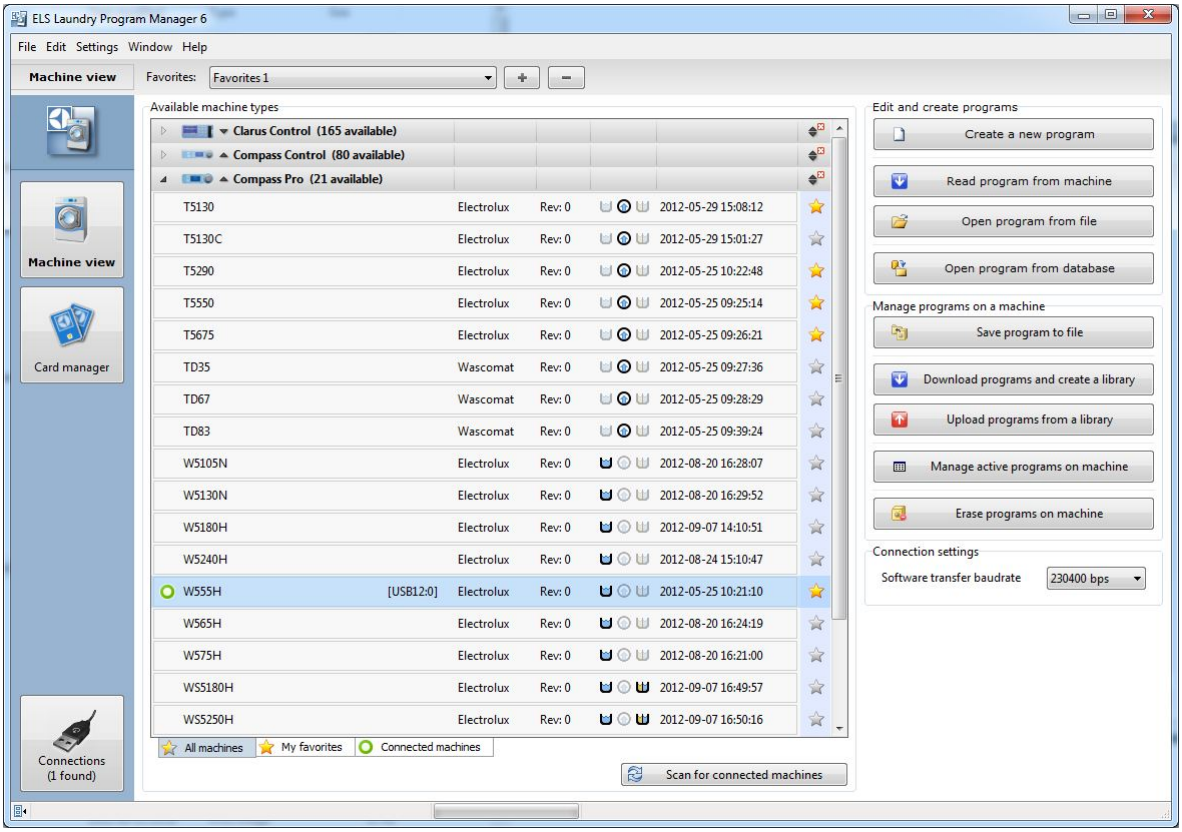


fig.W00364

3. In the **Download programs to library** window, select the programs you want to save to library.
4. Type any descriptive information for the program library, and click Create.
5. Give the *.wpl file a new name or overwrite an existing and save it to your hard drive.

Note!
Only user made programs can be saved to *.wpl file.

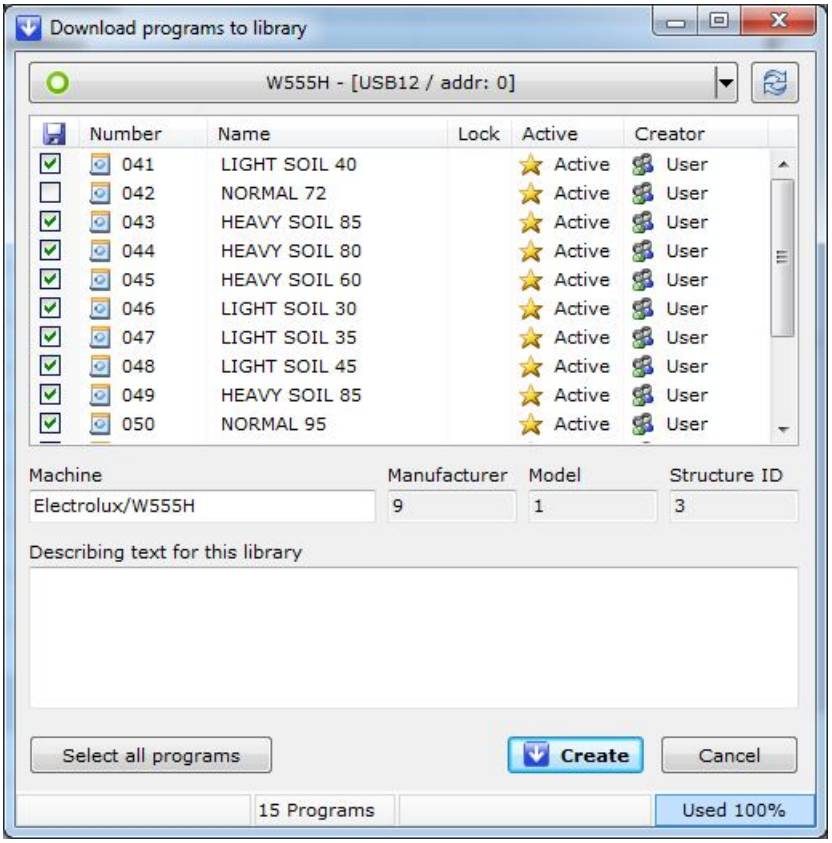

Download programs to library
W555H - [USB12 / addr: 0]
Number
Name
Lock
Active
Creator
041 LIGHT SOIL 40 Active User
042 NORMAL 72 Active User
043 HEAVY SOIL 85 Active User
044 HEAVY SOIL 80 Active User
045 HEAVY SOIL 60 Active User
046 LIGHT SOIL 30 Active User
047 LIGHT SOIL 35 Active User
048 LIGHT SOIL 45 Active User
049 HEAVY SOIL 85 Active User
050 NORMAL 95 Active User
Machine
Manufacturer
Model
Structure ID
Electrolux/W555H
9
1
3
Describing text for this library
Select all programs
Create
Cancel
15 Programs
Used 100%

fig.W00373

8.1.4 Write *.wpl file to program device (only Compass Control and Compass Pro)

This is used to restore a backup of user made programs from your hard drive to a control device, and can only be performed if you have a proper control device connected.

1. Go to **Machine view** and select the connected machine.
2. Click **Upload programs from a library** in the toolbar.

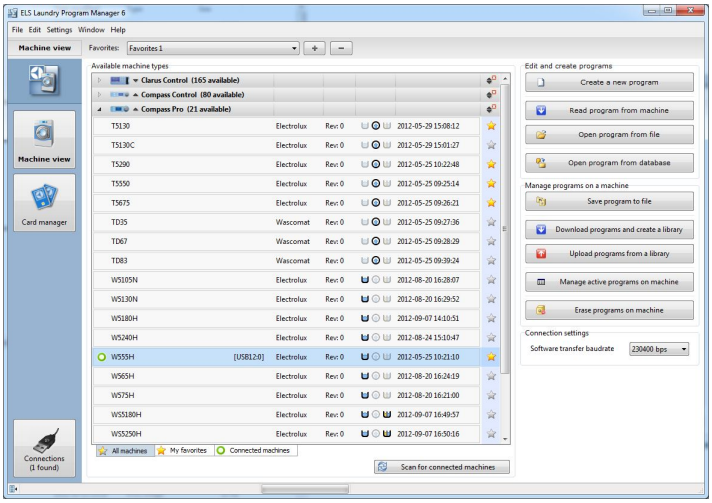


fig.W00364

3. In the **Select library file** window, select the *.wpl file you want to restore, and click **Open**.

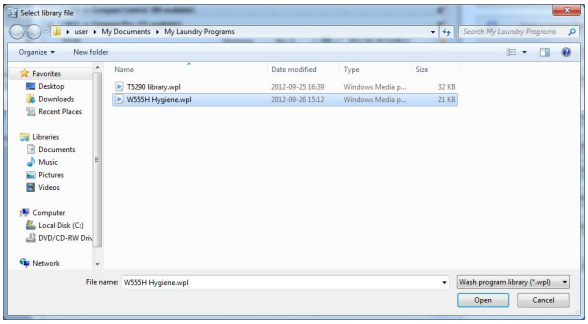


fig.W00366

It will take a few seconds to read the information in the *.wpl file and in the connected machine. A window will open and the information will be presented.

4. In the **Upload library programs to machine** window, select one or more programs in the *.wpl file to be uploaded.
5. Click **Upload programs**.

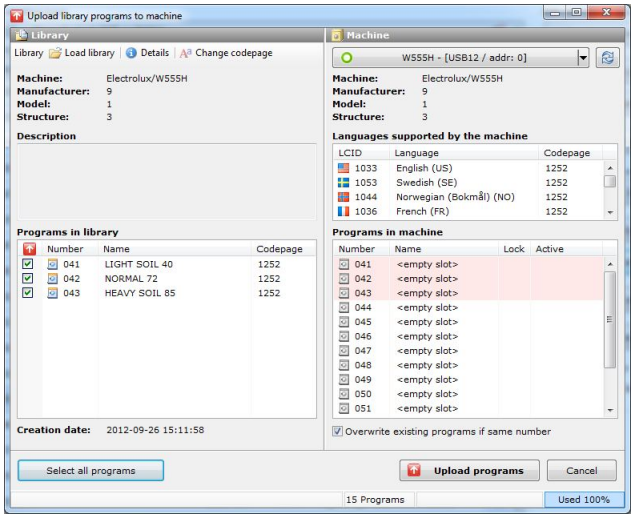


fig.W00367

Note!

All programs that you write to the program device will be activated automatically. You can deactivate programs later on. See section: Manage active programs.
Program slots that will be written to are indicated in red in the Programs in machine pane.
If you uncheck the checkbox Overwrite existing programs if same number, programs will be written only to free program slots.

In order to upload programs to machine, the library information about machine model, manufacturer and structure must match what is contained in the machine. The codepage (font table) stated in the library, must also be present in the machine.

If there is a mismatch between *.wpl file and machine, the upload will be interrupted and a message shown.

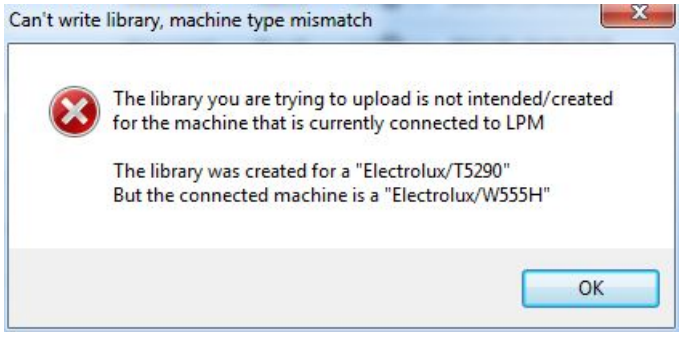


fig.W00368

9 Sequence database / Database manager

The sequence database is used to facilitate the restoration of a module, a number of program steps or an entire program for a specific machine. The modules in the sequence database are locked to the selected machine model. The **Default data** contains the factory set of modules. It is extracted from the *.mac file and can not be deleted or edited. Programs or program sequences that are saved by the user can be deleted.

The database tool is used to manage various functions in the sequence database.

9.1 Edit a program in Sequence database

When editing a program in the sequence database the program must first be moved to the **My program** pane in the edit menu. See section: From Sequence database.

9.2 Add a program to Sequence database

There are two ways of adding a program sequence to database.

Save program to database

Once a program or program sequence is ready in the **My program** pane of the edit menu, it can be saved to **Sequence database**.

1. Drag it from the **My program** pane into the **Sequence database** pane, or right-click and select **Save to database**.

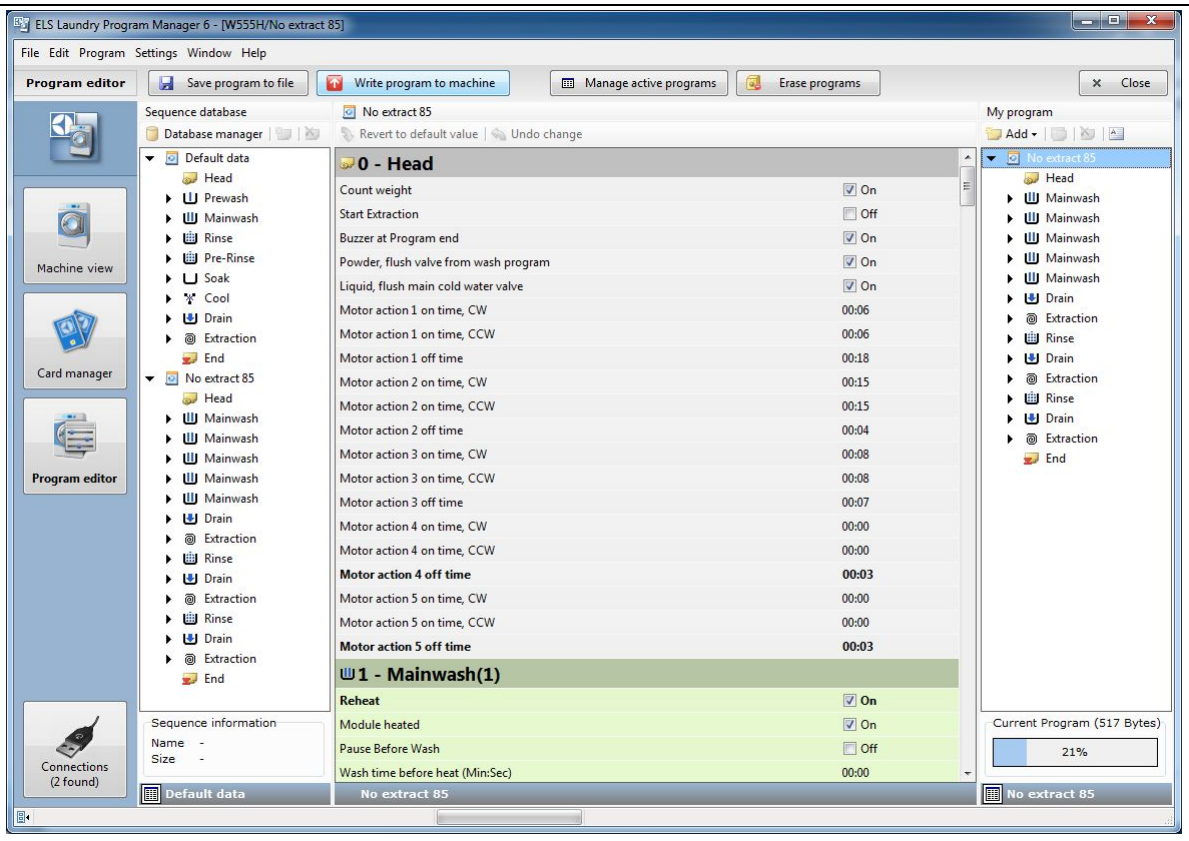


fig.W00356

9.3 Import *.wpf or *.lpf file

1. Open the **Sequence database manager** by clicking the **Database manager** button (A).
2. Click **Import program** (B).

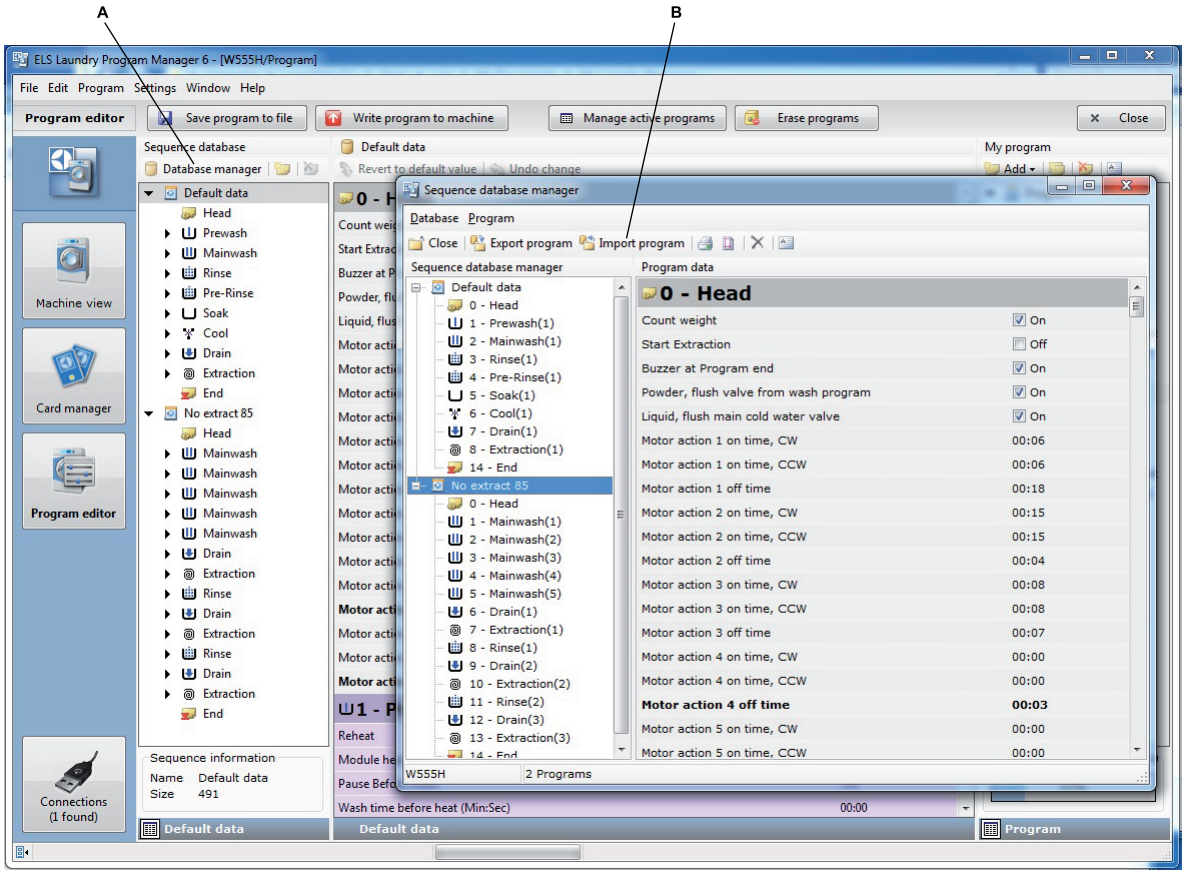


fig.W00379

3. Select the *.lpf or *.wpf file you want to import to the **Database manager** and click **Open**.

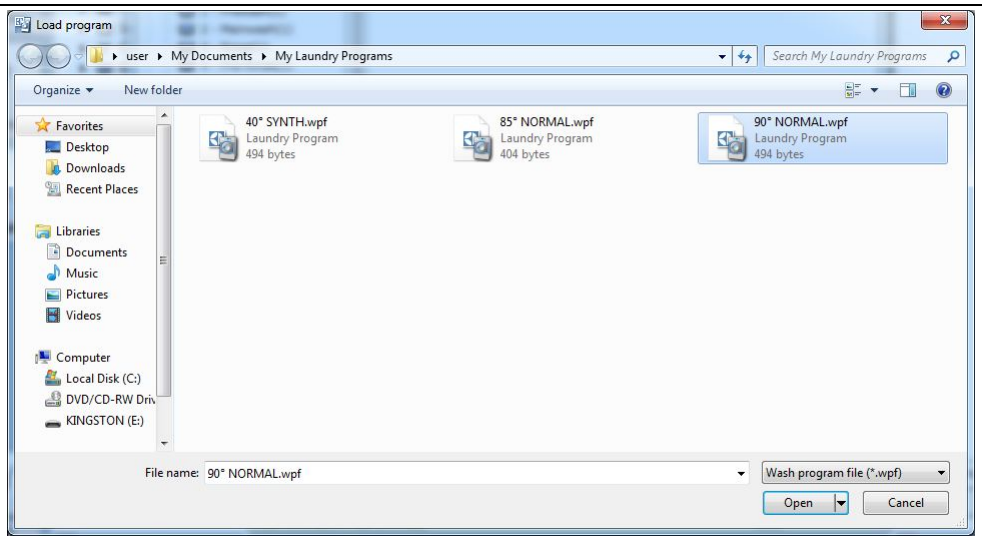


fig.W00380

9.4 Export database program

There are two ways of exporting a program from the sequence database.

Add steps from database

In order to use a program that is saved in the sequence database, it must be exported to My program.

1. In **Program editor**, find the database program you want to use.

2. Drag it from the **Sequence database** pane into the **My program** pane, or right click the program and select **Add steps from database**.

You can also copy a single module from a program in the **Database manager** by dragging it from the “Sequence database” pane into the **My program** pane, or right click the module and select **Add steps from database**.

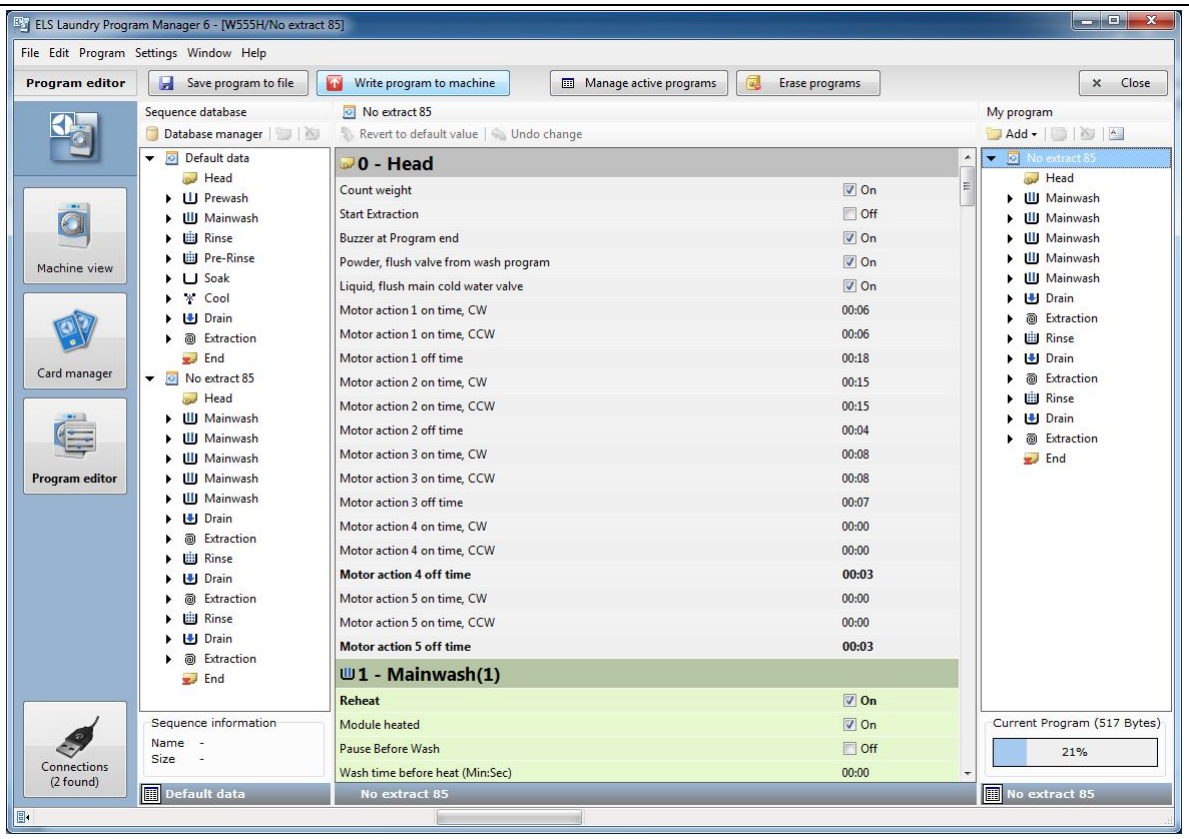


fig.W00356

Export database program to *.wpf or *.lpf file

1. Open the **Sequence database manager** by clicking the **Database manager** button (A).
2. Select the database sequence you want to export (B).
3. Click **Export program** button (C).

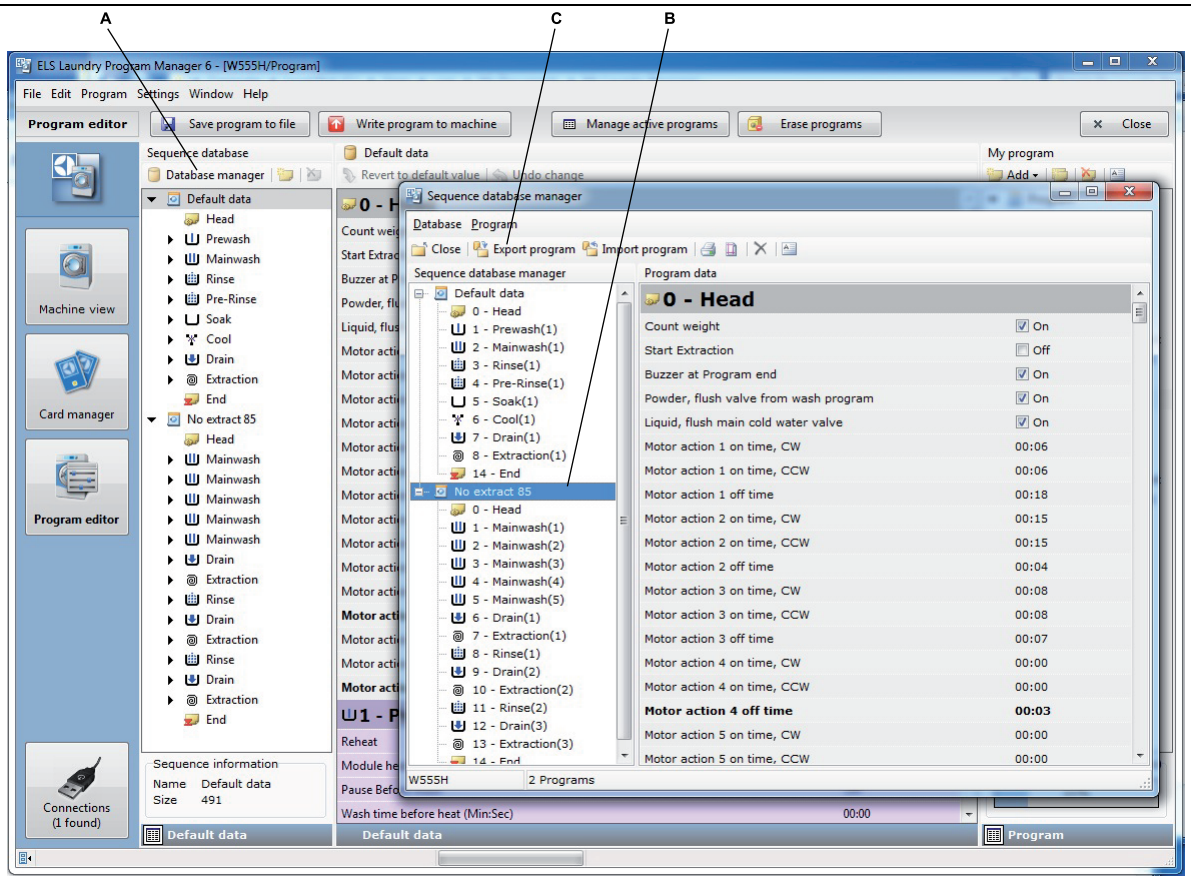


fig.W00379A

4. Name the *.lpf or *.wpf file you want to save.

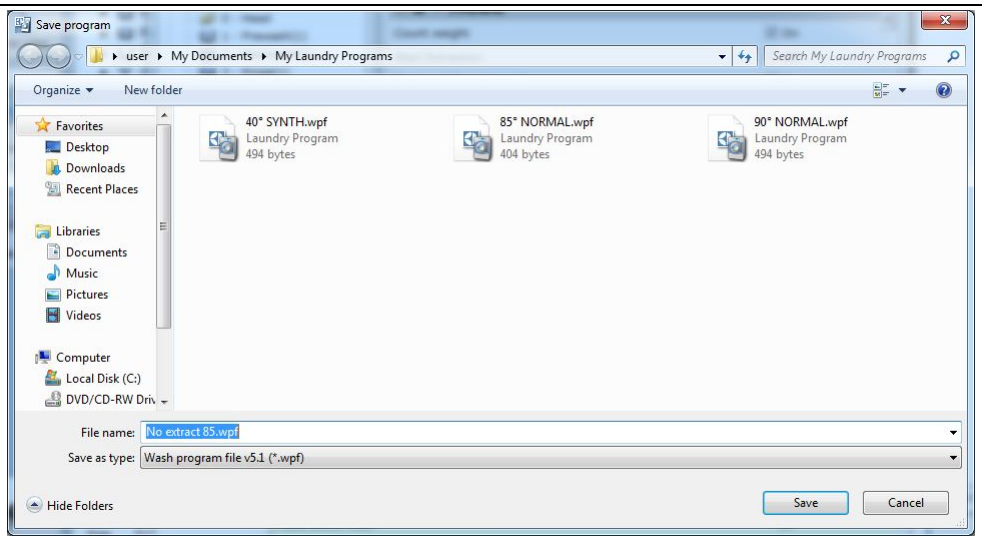


fig.W00381

10 Program editor

10.1 How to open Program editor

Program editor can be opened in different ways. See section: **Creating or editing program**.

10.2 Using Program editor

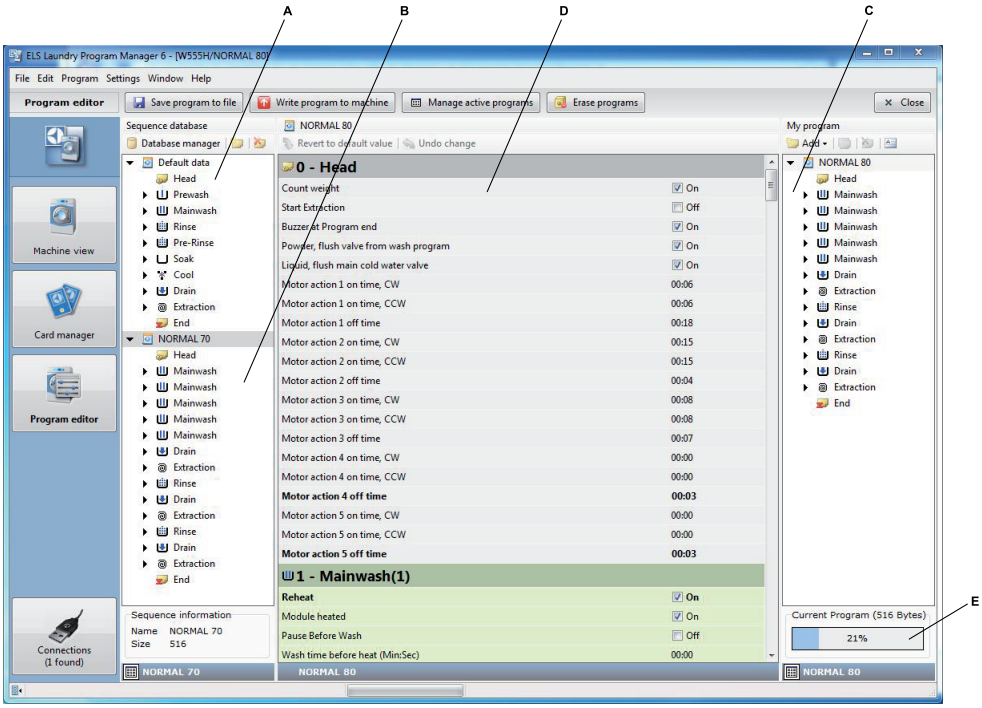


fig.W00382A

A. Program modules held in **Sequence database**.

B. User made Program modules.

C. My program under construction.

D. Program module editor pane.

E. Size of My program under construction.

The Program editor is made up of three panes. The left hand pane displays a tree structure with factory created program modules from the machine file (*.mac), together with any user made modules that are held in a *.seq file. See sections: **File types** and: **Creating from sequence database**.

The right hand pane displays a tree structure with the program you are currently creating or editing. **(My program)**.

The centre pane is where you do the actual editing. It displays the content and parameters of a highlighted module and allows you to make required adjustments to the parameters in your program.

Construct your program by using an existing program as a template, and add new modules from the **Sequence database** pane, or duplicate an existing module from **My program** pane.

Once you have put all modules in your modified program in place, highlight one module at a time and check that all parameters are properly set.

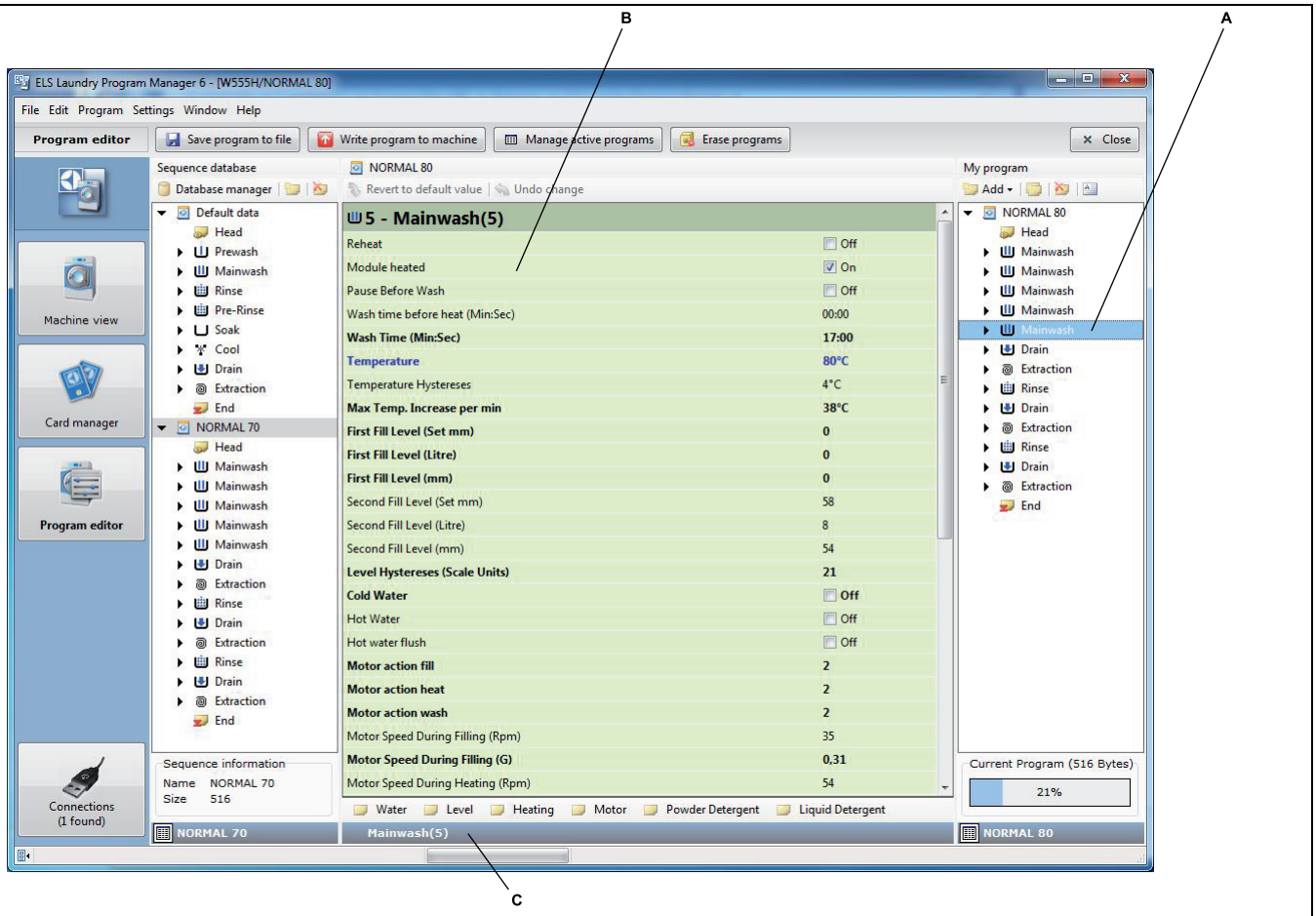


fig.W00383A

A. Highlight program module.

B. Parameter list for the highlighted program module.

C. Module parameter group.

If you want to change any parameter, click the relevant parameter group in the lower part of the window, or click the arrow in **My program** pane to open the Module parameter group, and select from there. Alternatively, you can edit the parameter directly in the parameter list.

Edit parameters as required.

If you hold the pointer over an editing field, minimum, maximum and default values for that parameter are shown.

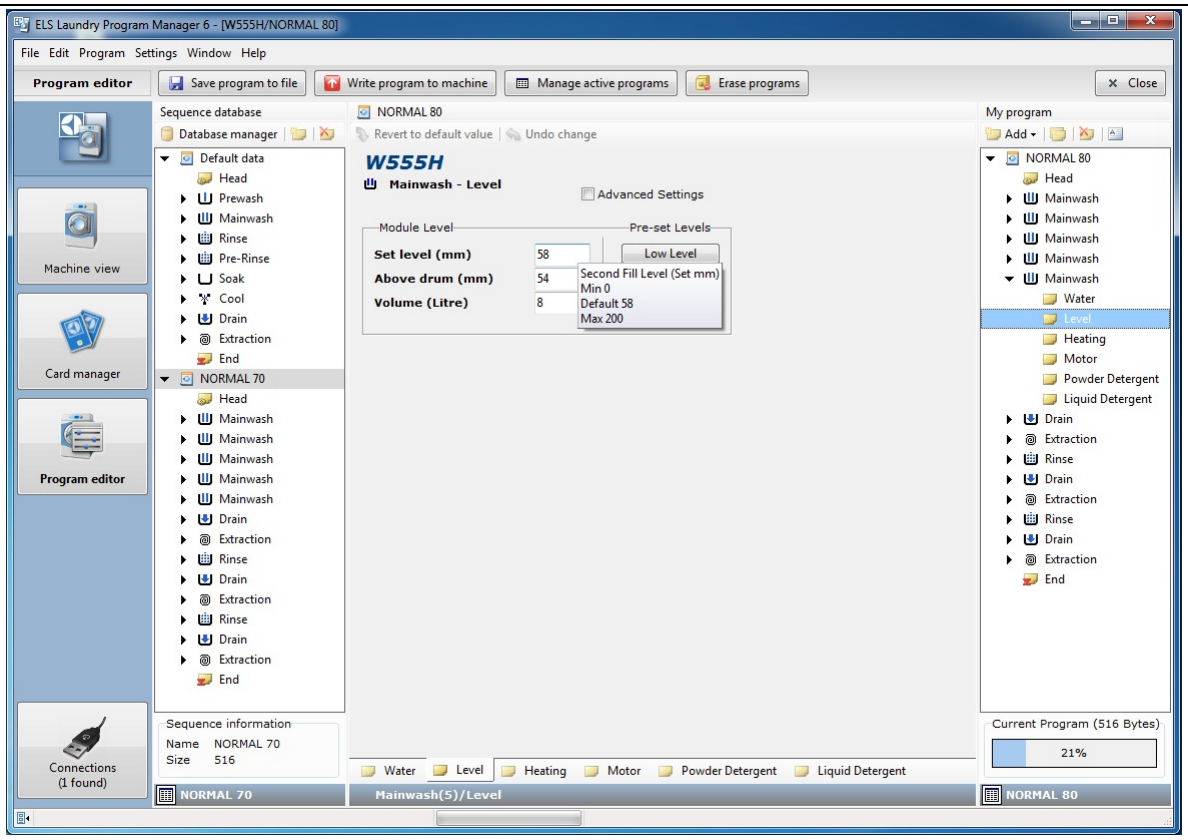


fig.W00384

10.3 Saving a program

Once you are finished editing your new program, there are a number of different saving options available.

- Save as an *.lpf (*.wpf) file on your hard drive.
- Save to Clarus Control memory card. (Clarus Control only)
- Save to virtual memory card. (Clarus Control only)
- Save to program device. (Compass Control and Compass Pro only)
- Save to sequence database.

10.3.1 Save program as *.lpf (*.wpf) file

An *.lpf or *.wpf file is saved to your hard drive and always contains one single program. The file is tagged with machine type and automatically opened using the machine file it was created for, but it can be converted to another machine. See section: **Converting an *.lpf or *.wpf file to a different machine file**.

Save to *.wpf file only if you want the program to be possible to open with the older version of Wash Program Manager.

Note!

It is not possible to save programs for Compass Pro as *.wpf.

1. Open the **File** menu and select **Save**. (or click the **Save program to file** button in the toolbar)
2. Select target folder or create a new folder to save your program.

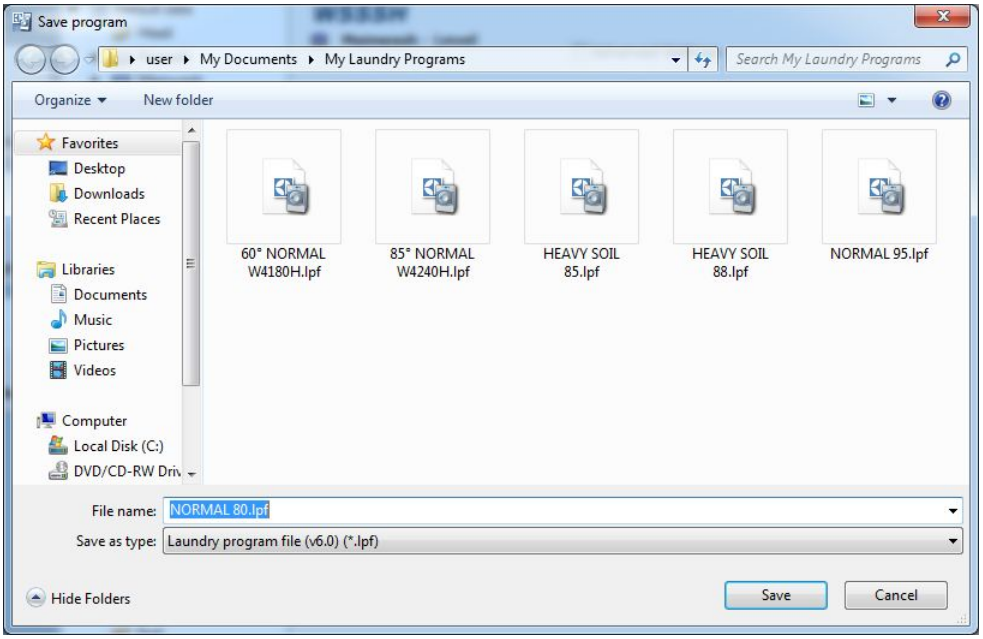


fig.W00385

10.3.2 Save to Clarus Control memory card (Clarus Control only)

In order to save a program to Clarus Control memory card, you must have a connected Electrolux ELS Card reader and a Clarus Control memory card that is not write protected. See section: **Card manager**.

1. Click the **Write program to card** button in the toolbar, and select **Electrolux ELS Card reader**.

2. Once the content of the memory card has been read, enter a program name and additional information. Select a free program number (or select an existing program to overwrite), and click **Write**.

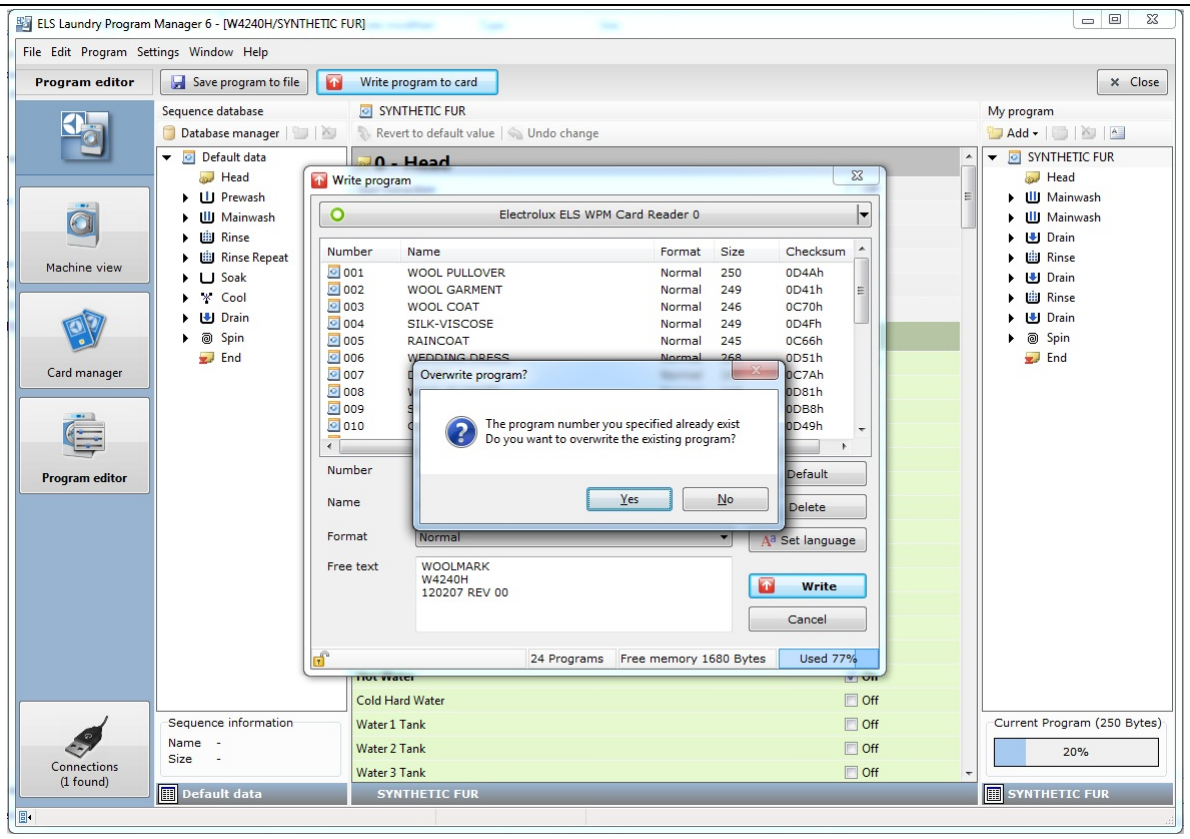


fig.W00386

10.3.3 Save to virtual memory card (Clarus Control only)

In order to use this function, you must first have selected an existing *.bin file or created a new to use as virtual card. See section: **Card manager**.

1. Click the **Write program to card** button in the toolbar, and select **Virtual card reader**.

2. Once the content of the virtual memory card (*.bin file) has been read, enter a program name and additional information. Select a free program number or select an existing program to overwrite, and click **Write**.

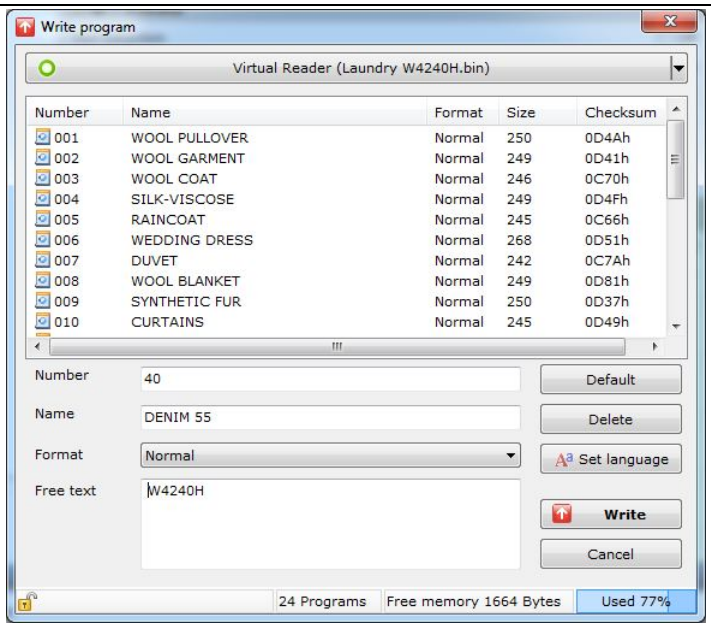


fig.W00387

10.3.4 Save to sequence database

The sequence database is ideally suited to act as a temporary buffer for the storage of a specific program or program sequence. The program sequences stored in the database can be easily re-used in new programs.

Note!

Sequences in the database are locked so that they can be retrieved only for the machine model they were originally saved from. See section: Sequence database.

1. Highlight and drag the program or sequence from the **My program** pane into the **Sequence database** pane, or right click and select **Save to database**.
2. Your new database program is listed after the factory set **Default data**.
3. Use the modules or sequences that you have saved in the **Sequence database** for the construction of new programs.

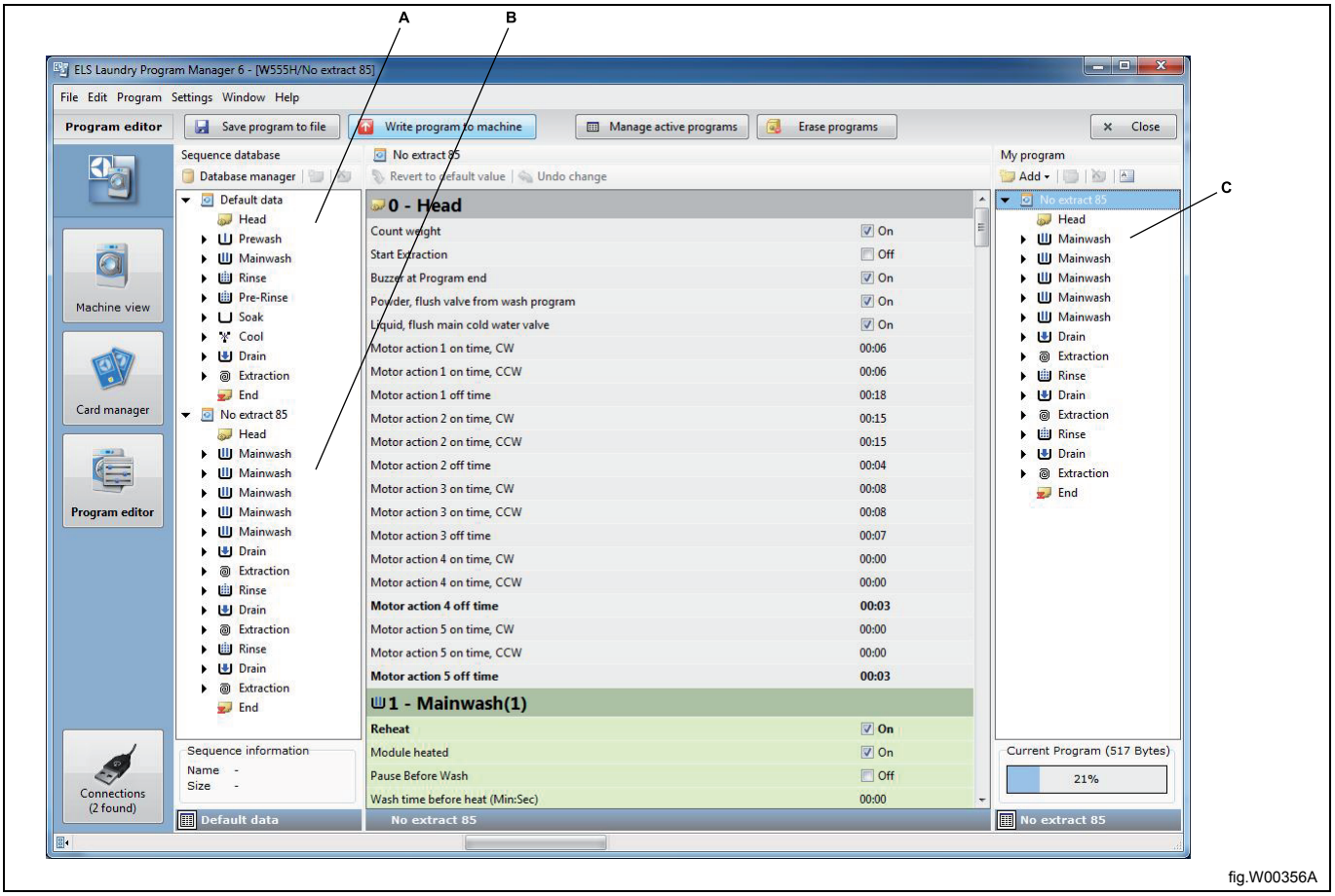


fig.W00356A

A. Factory set modules **Default data**.

B. Programs / sequences saved in **Sequence database**.

C. Your new program.

10.3.5 Save to program device (Compass Pro)

In order to save a program to a control unit, you must have connected your computer to a poweredup machine. See section: **Communication connection**.

1. Click the **Write program to machine** button in the toolbar.

2. Once the content of the available memory slots in the connected machine has been read, enter a program name, and additional information.

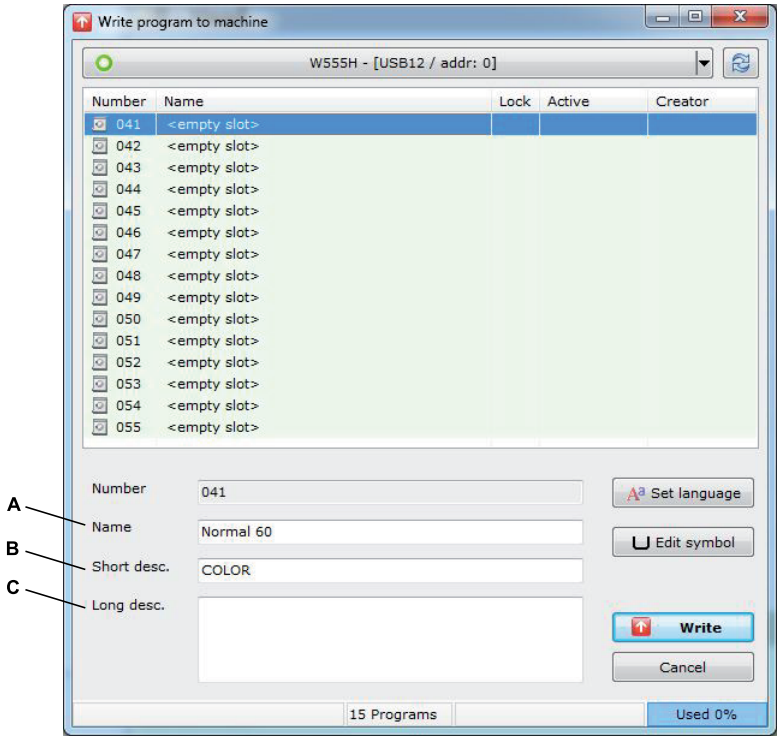


fig.W00388A

A. Name. Maximum approximately 12 characters, depending on language used.

B. Short description. Maximum approximately 18 characters, depending on language used. This text will be shown as additional program information below the program name in the machine display.

C. Long description. Max. 7 lines with 20 characters per line. This text is only visible in LPM.

3. If necessary, change the language in which your new program is to be shown in the machine display. This menu also allows you to change the program name, short and long description.

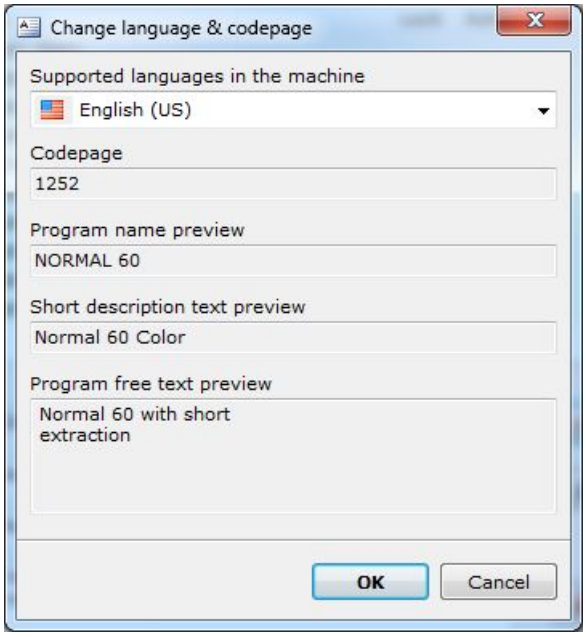


fig.W00389

Note!

Compass Pro can handle a number of different languages. However, user made programs are always mono-lingual, and displayed in the language used in their configuration.

4. If you want a symbol to be shown in front of the program name, you can create or edit an existing in the **Symbol editor** . See section: **Symbol editor**.

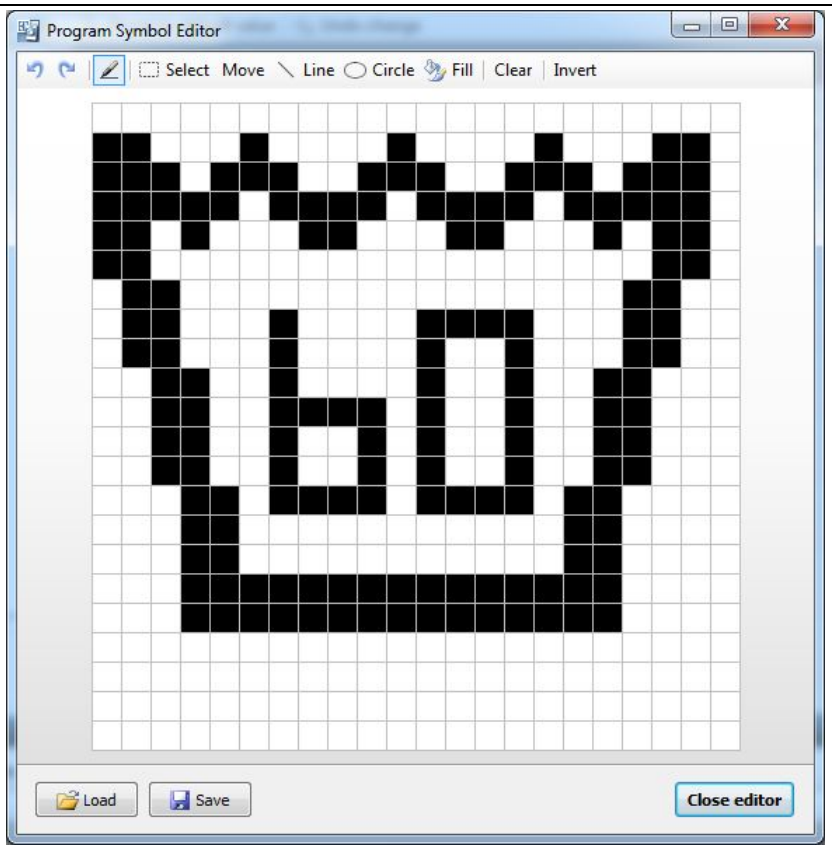


fig.W00390

5. Highlight the program slot in which you want to save your program. 15 slots are available for user made programs (41 to 55). If you select a slot where a program already is stored, it will be overwritten.

6. Click **Write**.

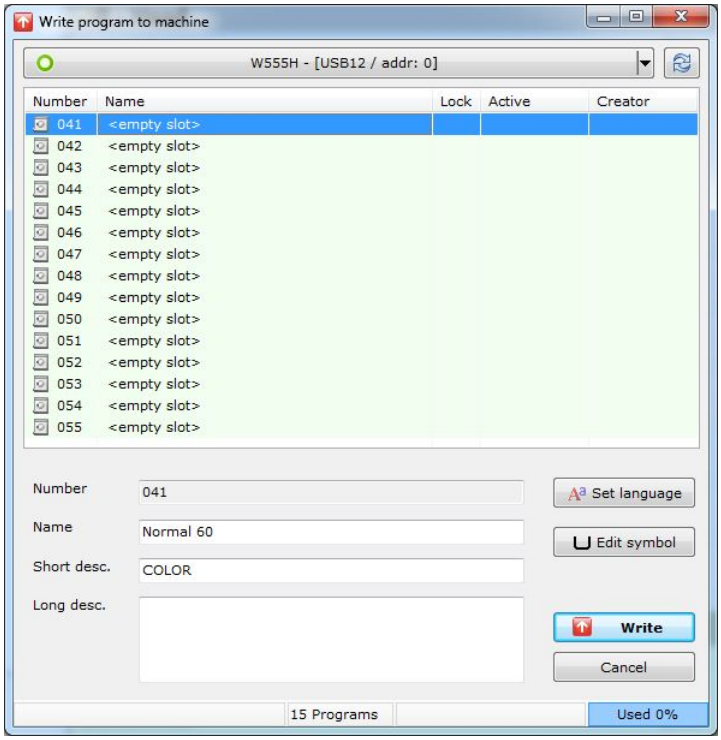


fig.W00388

Note!

A user made program will be automatically activated, and placed as the last program visible in the display, when saved to the control unit. In order to move it to another position or to deactivate it, see section: Manage active program.

10.3.6 Symbol editor (Compass Pro)

Symbol editor is a simple tool to create or edit an existing symbol to be shown in front of the program name in the machine display.

1. Click **Edit Symbol** button in **Write Program to machine** dialog window.
2. If the program already has a symbol attached, this will be opened, otherwise the editor is empty.
3. Use the functions below to draw or edit the symbol, or open a saved symbol from your hard drive.
4. If you want to save it for future use, select **Save** , and name the symbol.
5. By selecting **Close editor**, the symbol is saved to the present program, and the editor is closed.

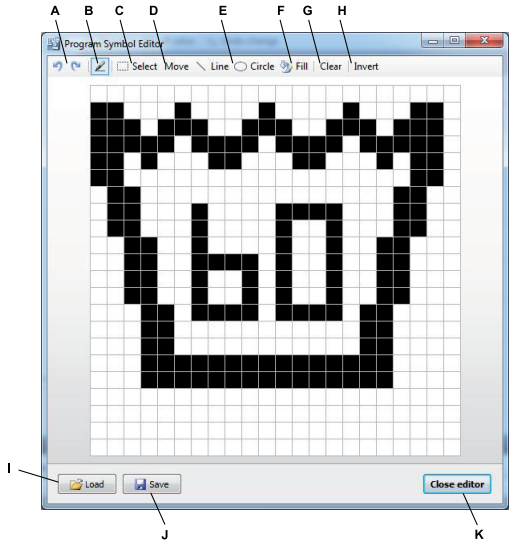


fig.W00390A

A. Undo change and Redo change.
B. Pen tool. Left click adds pixel, right click removes pixel.
C. Select. Select an area to copy or move. Shift + drag to copy, Ctrl + drag to move.
D. Move. Moves all pixels in editor.
E. Line and Circle tool. Left click to start, release to stop.
F. Fill area.
G. Clear all pixels.
H. Invert pixels.
I. Load a previously saved symbol.
J. Save a symbol to hard drive.
K. Close editor and save symbol to program.

10.3.7 Save to program device (Compass Control)

In order to save a program to a control unit, you must have connected your computer to a powered up machine. See section **Communication connection**.

1. Click the **Write program to machine** button in the toolbar.

2. Once the content of the available memory slots in the connected machine has been read, enter a program name, and additional information.

A. Name. Maximum approximately 14 characters, depending on language used. If you are using more than 10 characters, add a tilde character (~) to make the text wipe in from the right. The ~ will not be shown.

B. Short description. Maximum approximately 15 characters, depending on language used. This text will be shown as program information in the machine display.

C. Long description. Max. 7 lines with 20 characters per line. This text will be shown as program information in the machine display.

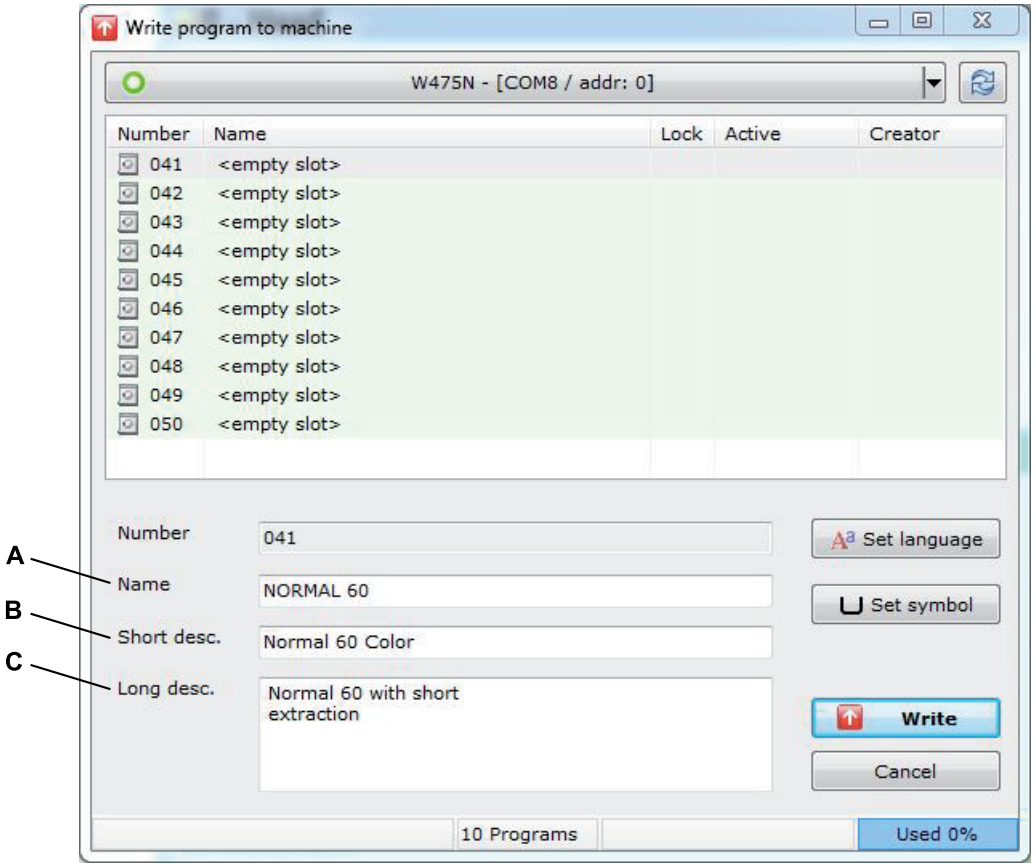


fig.W00391A

3. If necessary, change the language in which your new program is to be shown in the machine display by clicking: **Set language** button.

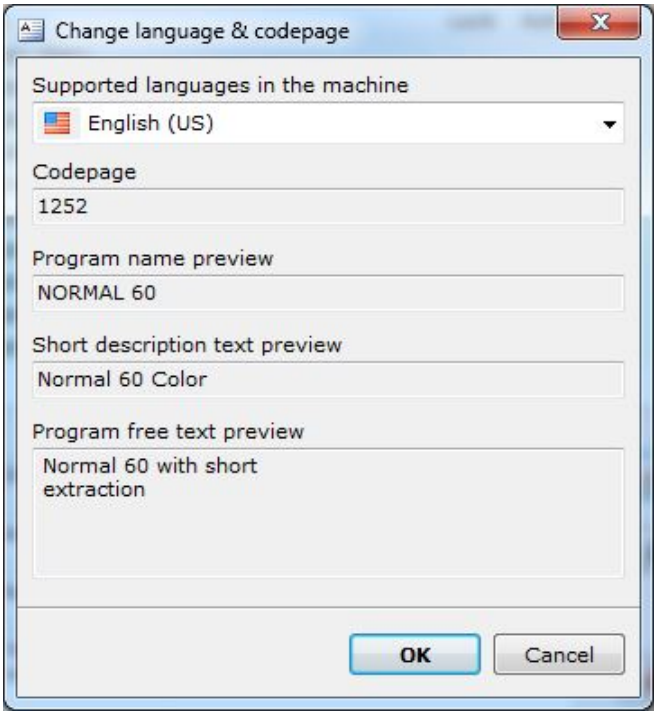


fig.W00389

Note!

Compass Control can handle a number of different languages. However, user made programs are always monolingual, and displayed in the language used in their configuration.

10.3.8 Symbol (Compass Control)

4. If you want a symbol to be shown in front of the program name, you can select one by clicking the **Set Symbol** button. There are a number of symbols to choose from. Select number according to the symbol library below. Symbols are fixed and cannot be edited. Text inside a symbol can be maximum 3 caracters and is only visible in symbols 0 and 1.

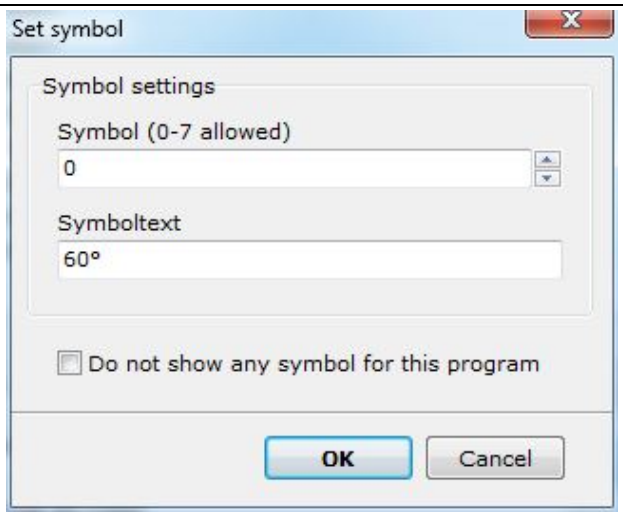


fig.W00392

Symbol library:

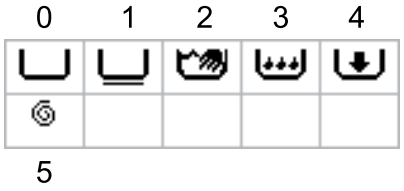


fig.6547

5. Highlight the program slot in which you want to save your program. 10 slots are available for user made programs (41 to 50). If you select a slot where a program already is stored, it will be overwritten.

6. Click **Write**.

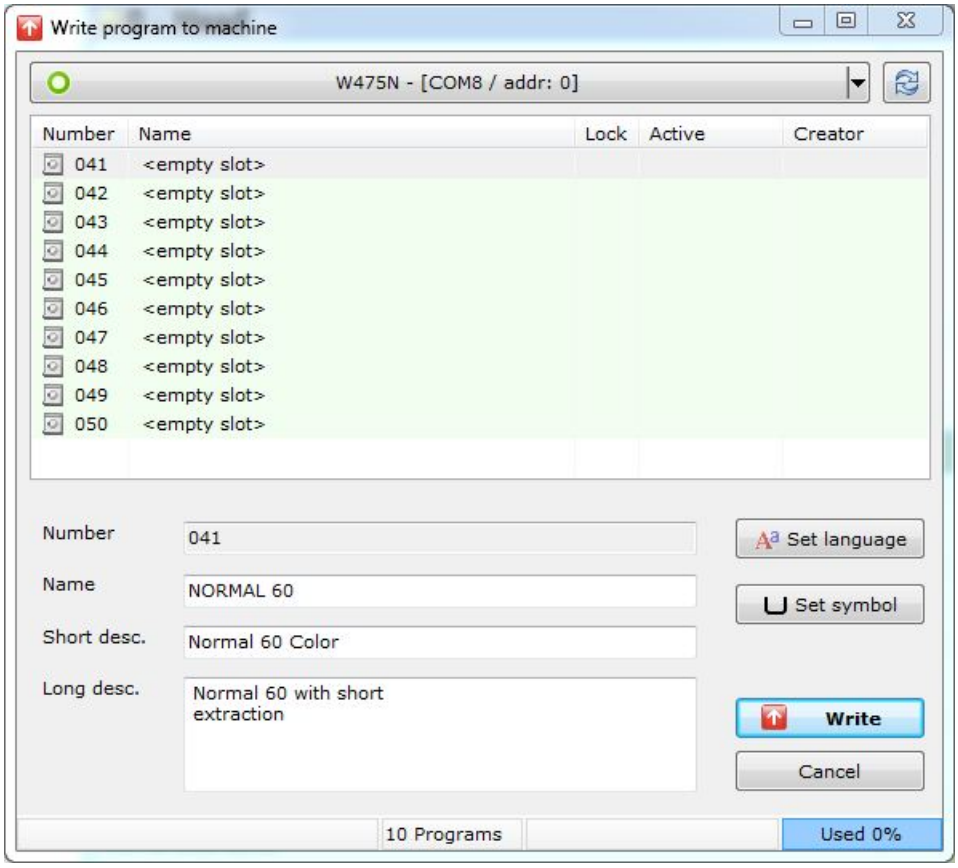


fig.W00391

Note!

A user made program will be automatically activated, and placed as the last program visible in the display, when saved to the control unit. In order to move it to another position or to deactivate it, see section: Manage active program.

11 Other

11.1 Converting an *lpf or *.wpf file to a different machine file

This is useful if you want to re-use a program that you have made for one machine model as a template when making a program for another machine model.

1. Go to **Machine view** and click “Open program from file”.

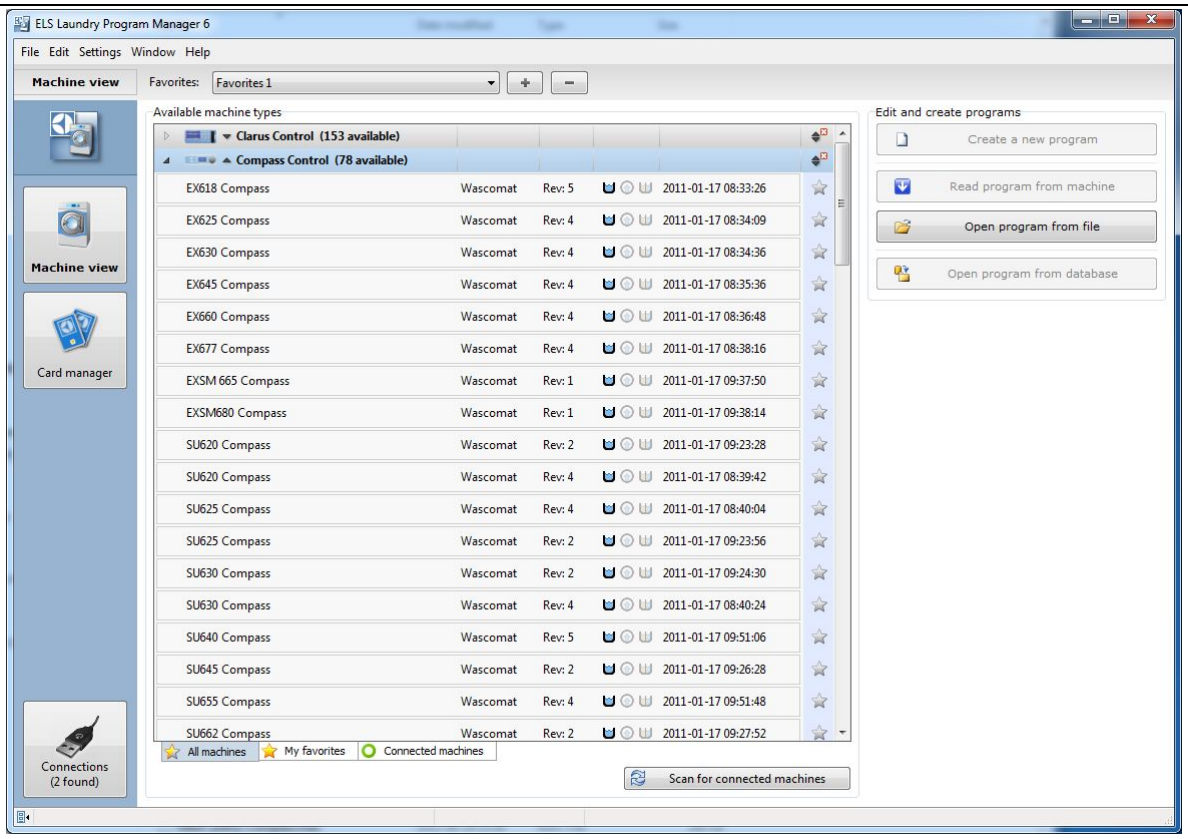


fig.W00393

2. While pressing the “SHIFT” key, select the *.wpf or *.lpf file you want to open, and click **Open**. The **Select machine type** window will open, showing possible machine types to open the selected program with.

Note that it is not possible to convert between different control systems and not between a dryer and a washer or vice versa.

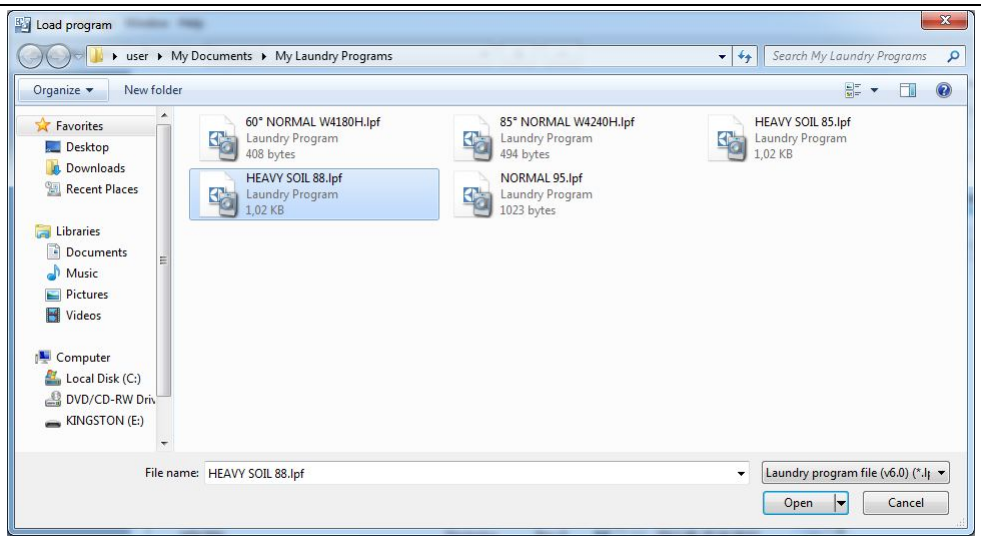


fig.W00394

3. From the **Select machine type** window, select the machine model you want to convert the program to, and click **OK**.

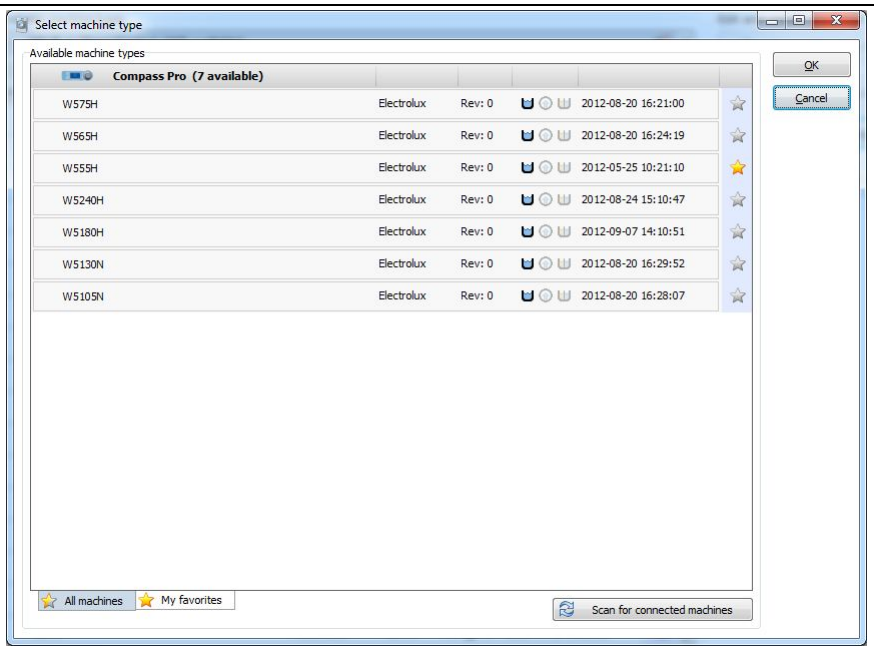


fig.W00395

Now you will have two warning messages.

The first will inform you that some minimum or maximum values for the machine are exceeded, and the second informs you that the program is opened with a machine file that the program was not created for.

Note!

The program will automatically be adjusted so that values are within limits, but parameters might need to be changed in order to achieve the optimal result and function. It is recommended that you check all parameters in the program before using it.

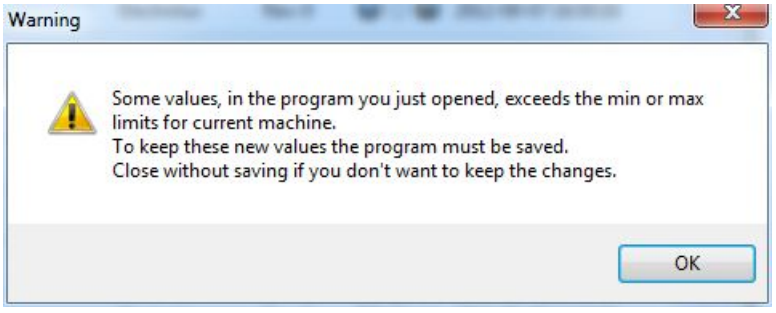


fig.W00396

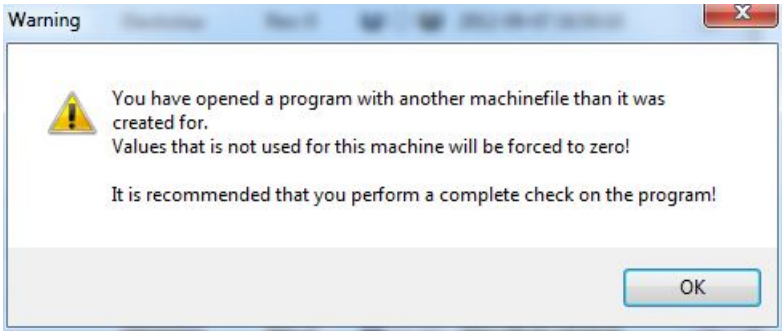


fig.W00397

Once the warning messages are confirmed, the program will open with the new machine file.

The lower section of the Program editor pane shows all parameters that have been changed in order to conform to minimum or maximum values for the new machine file. When you save the program, these new values will be used in the program.

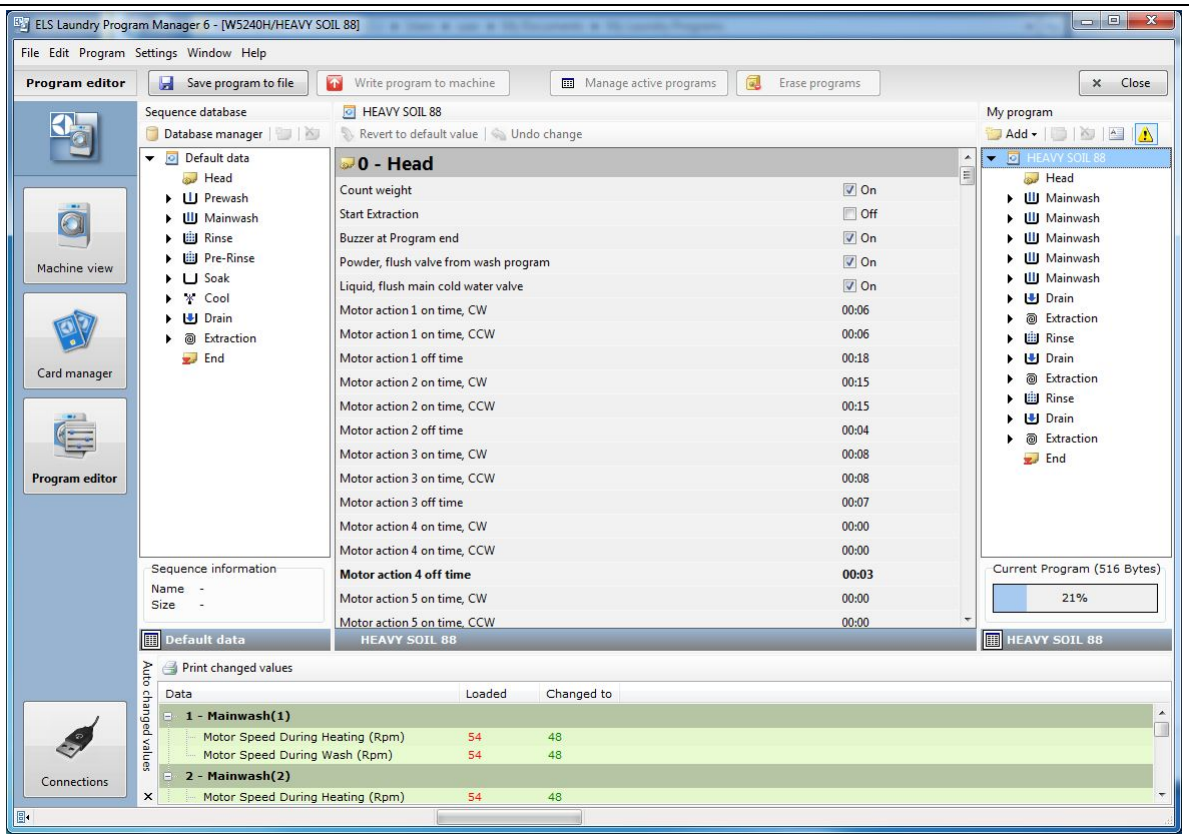
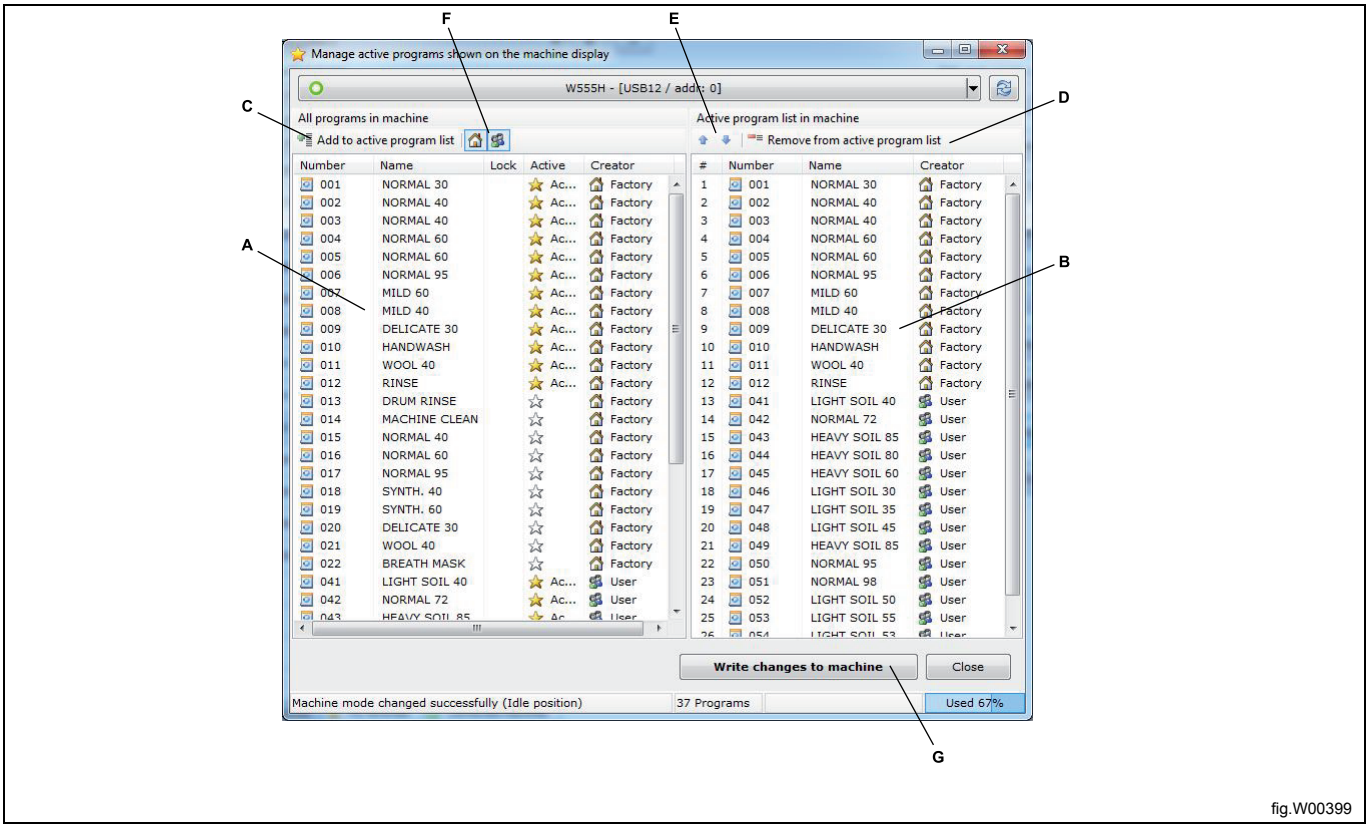


fig.W00398

11.2 Manage active programs (Compass Control and Compass Pro)

This functionality is implemented in later versions of Compass Control software. See section: **System requirements**.

Manage active programs allows you to activate, deactivate and arrange the order of appearance for the programs in the display. From **Machine view** select a connected machine and click **Manage active programs on machine**.



A. In the left column all available programs in the machine are shown, together with information which programs are active.

B. In the right column the active programs list in machine is shown, numbered in the order they will appear in the machine display.

C. By selecting a program in left column and clicking **Add to active program list**, the program gets activated. You can also click left mouse button and drag over a program from left column to right column.

D. By selecting a program in right column and clicking **Remove from active program list** the program gets deactivated. You can also double click the activated program to deactivate it.

E. Select an activated program and click **Arrow up** or **Arrow down** to reorganize the order of active programs.

F. By clicking the buttons **Show factory made programs** and/or **Show customer made programs** you can sort out the programs you want to see in **All programs in machine**.

G. Before changes will take effect you will have to write them to Compass Control by clicking the button **Write changes to machine**.

11.3 Copy a memory card (Clarus Control)

This functionality is used to duplicate a Clarus Control memory card. From **Card manager** select the card reader with the card that you want to duplicate and click **Copy Card**.

1. Click the **Read data from card** button. All data stored on the source memory card will be copied to the computer memory.

Note!

It is not possible to copy a hard locked memory card.

2. Remove the source card from the reader and insert a new empty target memory card.

Note!

Any programs on the target memory card will be overwritten.

3. Click the **Write data to card** button. All data copied from the source memory card will now be written to the target memory card.

4. To make multiple copies repeat steps 2 and 3. A counter keeps track of the number of copies made.

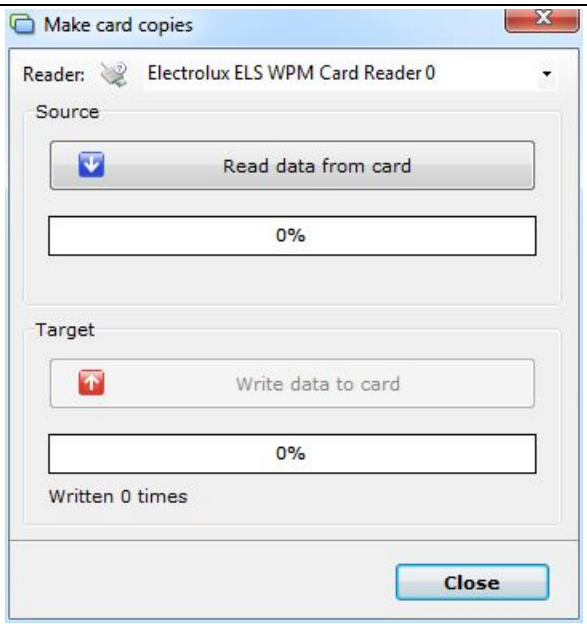


fig.W00400

11.4 Format a memory card (Clarus Control)

This functionality is used to remove all data from a Clarus Control memory card. From Card manager select the card reader with the card that you want to format and click **Format Card**.

1. A message appears warning you that all data on the memory card will be lost during formatting.

2. If you want to continue wit the formatting process, click **Yes**. To abort the operation, click **No**.

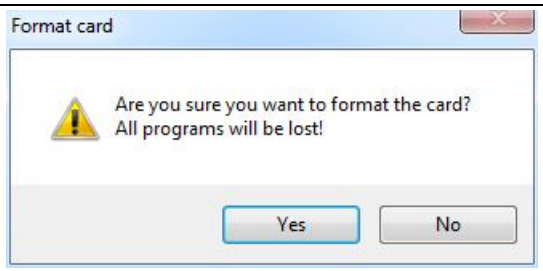


fig.W00401

11.5 Locking a memory card (Clarus Control)

There are two ways of locking a memory card, **Lock** and **Hardlock**. From **Card manager** select the card reader with the card that you want to lock and click **Lock** or **Hardlock**.

1. **Lock**. Locking a memory card allows you to protect it from being overwritten.

A locked card can be unlocked using the function **Unlock**. Confirm by clicking **Yes**.

fig.W00402

2. **Hardlock**. Hardlocking a memory card allows you to protect it from being overwritten and copied.

Note!

A hardlocked card can not be unlocked or copied.

Confirm by clicking **Yes**, or **No** to abort the operation.

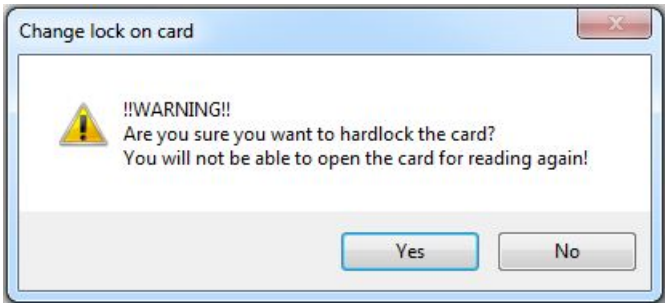


fig.W00403

12 Trouble shooting

12.1 Warning message when opening a program

Warning message when opening a program from a program device, *.lpf or *.wpf file.

This warning message indicates that the program you just opened has parameters set outside the limits stated in the selected machine file. This can happen if a machine file has been updated since the program was created, or when opening a program with a different machine file than the program was originally made for.

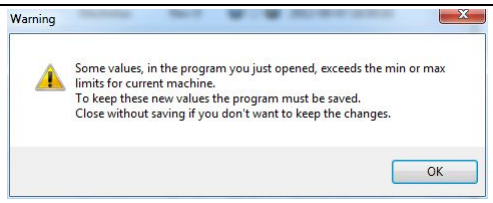


fig.W00396

LPM has adjusted all parameters to fit within the limits. You should always check that the values are acceptable before you save the program again.

A list of the values automatically changed, is shown in the lower part of LPM window. You can toggle this view on and off by clicking the **Show auto changed values** button (A).

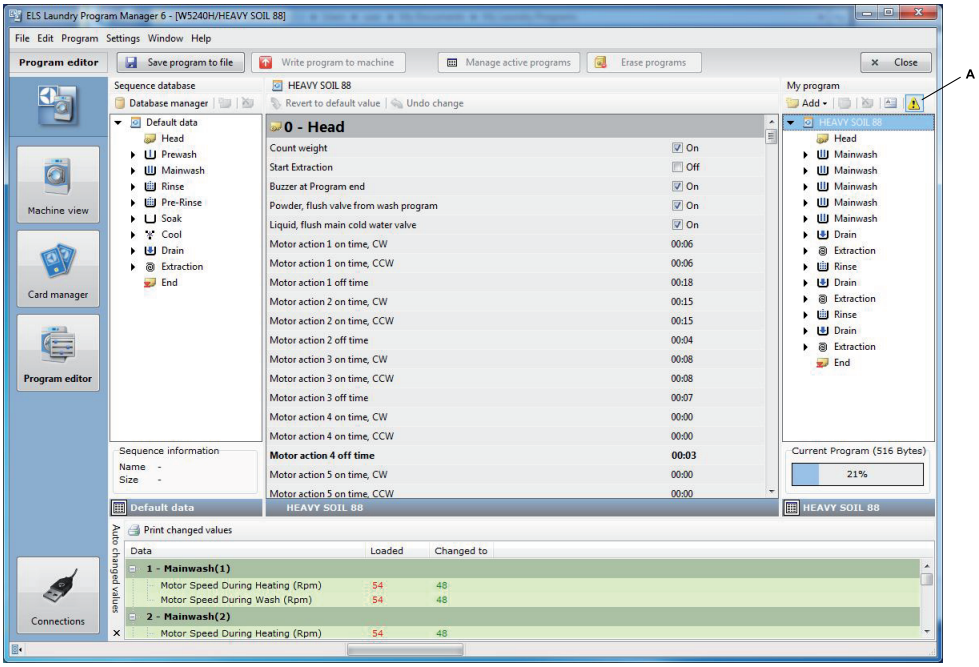


fig.W00398A

Note!

The program must be saved in order for the adjusted values to apply. This includes automatically changed values as well as changes that you have made manually.

12.2 Machine files not shown in Machine view

Make sure you see a number of available machine files to the right of each headline (A).

1. In order to see the available machine files it might be necessary to click the arrow to the left of the headline (B).

2. If you have some machine files available, but not all that you expect, please go to ELS webpage and download latest version of LPM and update your installation. This will include all presently available machine files as well as updated ones.

3. If you still can not see any machine files, make sure you have the correct search path stated in the **Settings** menu under **Directories**. Open an explorer window and navigate to the stated directory, and make sure the machine files are there. Machine files have a file extension *.mac.

4. If you can not find the *.mac files, try re-installing LPM according to instructions in section: **Installing LPM**.

5. During installation of LPM, make sure you include the correct brand names for the machine files you want to use. See section: **Installing LPM**.

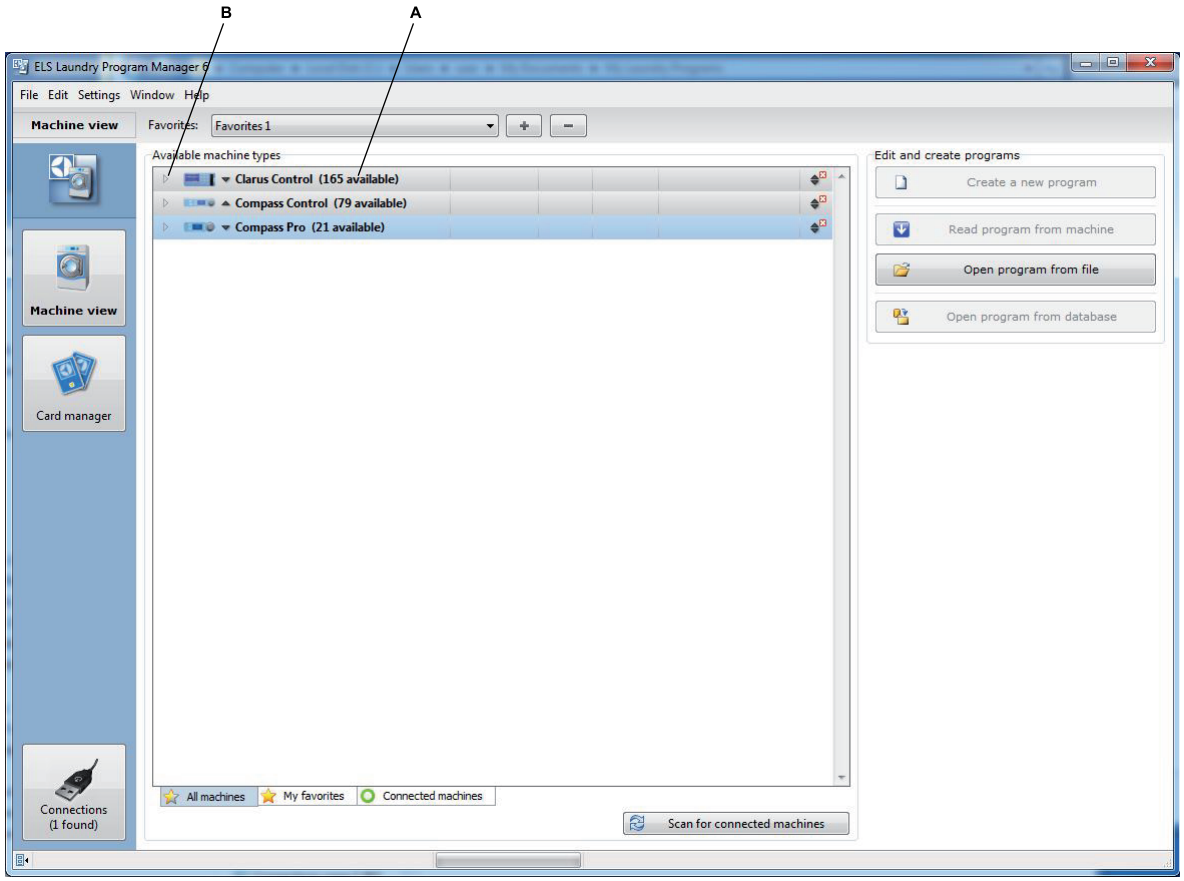


fig.W00405

12.3 Not possible to read programs from Clarus Control memory card

This can be caused by:

1. The card being incorrectly inserted, upside down or poor contact in the card reader. Try removing the card from the reader and re-insert it.

2. The Card reader is incorrectly configured or not detected by the computer's operating system. Make sure the Electrolux ELS Card reader driver is correctly installed and up to date, and that the card reader is connected to the USB port before LPM is launched. When the card reader is connected the LED at the USB symbol should be lit, and when a card is inserted the LED at the card symbol should be lit. Try removing the card reader from the USB connection on your computer and the card from the reader. Close LPM application. Wait one minute before you connect the USB cable again. Start LPM, insert the card into the reader, and try again.

3. Wrong driver or driver incorrectly installed. Uninstall the card reader using **Device manager** and reinstall the card reader driver. See section: Installation of drivers.

4. LPM does not recognize the card reader. Unplug the reader from your computer, wait one minute and reconnect it. If none of the above procedures corrects the problem, the card is probably defective. Try formatting the card or replacing the card. If you format the card, all data held on the memory card will be lost. If the problem is still present, the card reader may be defective and needs to be replaced.

Note!

Never try to use any other card reader than the original Electrolux ELS Card reader.

12.4 User made programs disappear after software update

When machine software is updated, all user made programs will become inactive. User made programs are saved on memory slots 41 to 50 on Compass Control and on slots 41 to 55 on Compass Pro.

In order to activate them again, follow steps in section: Manage active programs.

Note!

If you choose to delete user made programs during machine software upload, they will be permanently lost. Refer to ELS Common Service Tool manual.

12.5 The program device does not support the language you selected

This message appears when you try to upload a program to a program device if the language you select in the **Edit name / free text** dialog in **Program editor**, is not supported by the software in the program unit.

To be able to upload the program, you must use a language that is supported by the program device when you write text in the Program texts dialog,

Click **Set language** and select a language from the list. The list only contains languages that are supported by the program device.

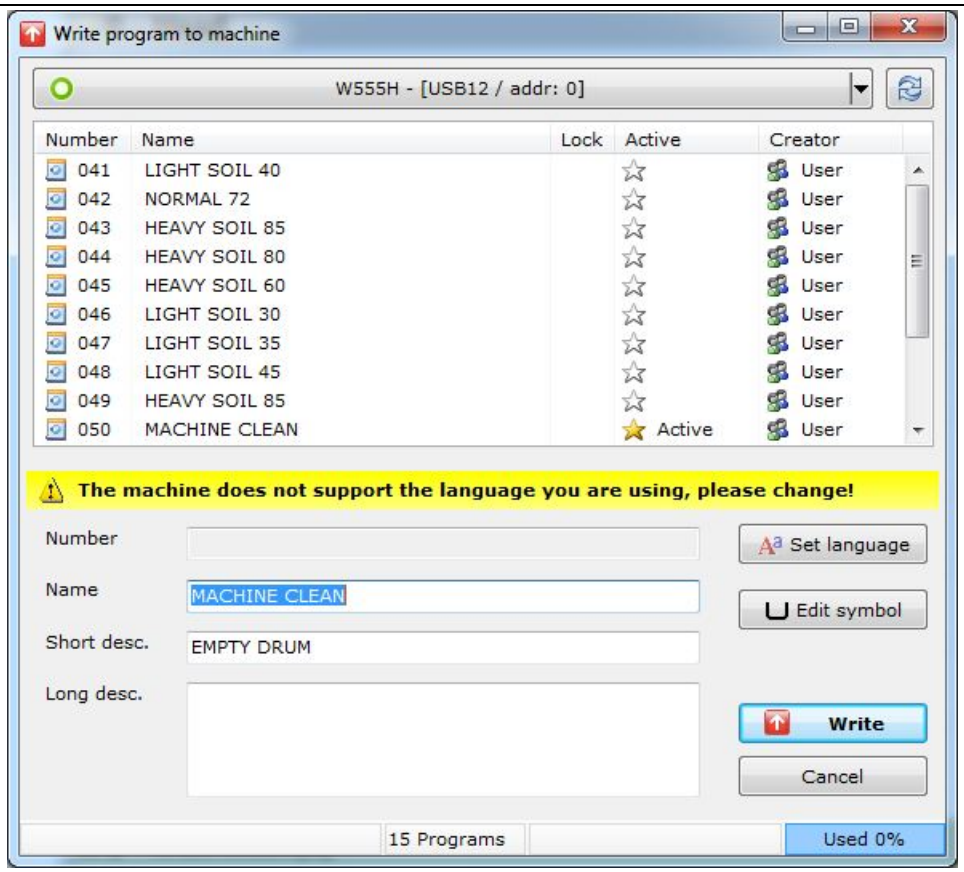


fig.W00406

12.6 Driver for ELS Compass Pro or ELS LPM Card reader is not installed

Note!

You need to have administrator rights to install the drivers.

If the driver installation according to section: **Installing drivers** fails, it might be necessary to follow the below steps to re-install them.

Open Device manager on your computer and double click the ELS Compass Pro under **Universal Serial Bus Controllers** or the ELS Card reader under **Smart card readers**.

In the Properties window, select the Driver tab and click Update driver

In the **Update Hardware Wizard**, select **No, not this time** when asked if you want to use Windows Update to search for a driver. Instead, select "Install from a specific location" and browse to the folder ”**C:\Program Files\Electrolux \ELS Laundry Program Manager\Drivers\CardReader"** for ELS Card reader driver and to “**C:\Program Files\Electrolux\ELS Laundry Program Manager\Drivers\CompassProUSB**” for the ELS Compass Pro driver.

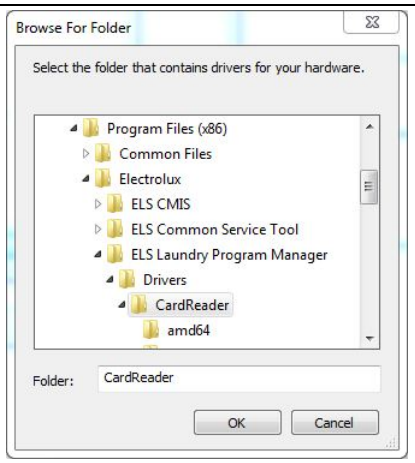


fig.W00407

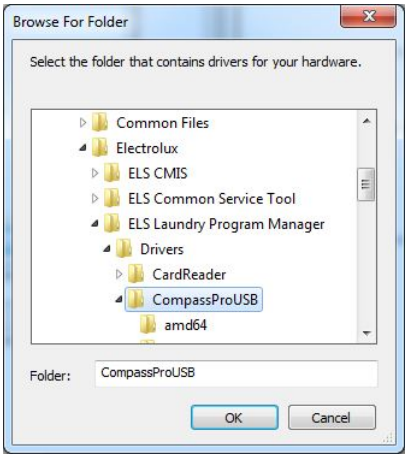


fig.W00408

Click **Next** or **Finish** on the next few screens, until your driver is installed.

12.7 Not possible to write program to machine

From **Program editor**, when you have made a program for a Compass Control or Compass Pro, it can be written to the machine under certain circumstances. If the buttons **Write program to machine**, **Manage activate programs** and **Erase programs** are not active, it is not possible to perform any of these actions. This can be due to different reasons.

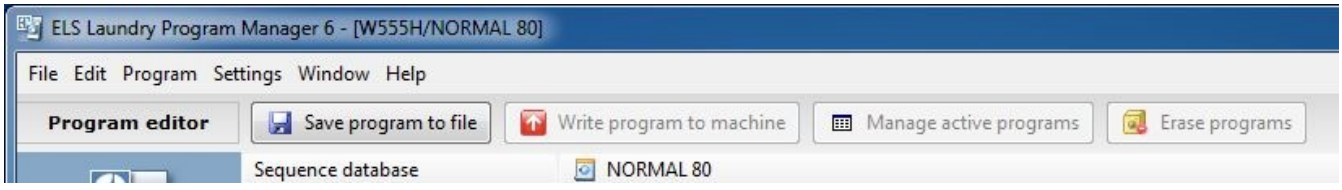


fig.W00414

1. The machine must be connected and scanned in LPM. See section: **Scanning for connected machines**.

2. If the green connection symbol is not shown in front of the relevant machine model in the **Machine view**, press the **Scan for connected machines** button.

3. If this does not help, remove the adapter cable or USB cable for ten seconds, and then connect it again. Press the **Scan for connected machines** button and check in the **Port scan log** under **Connections**, that a machine is found. Make sure that it is of the same model as the machine file used in the program.

Electrolux Laundry Systems Sweden AB
341 80 Ljungby, Sweden
www.electrolux.com/professional

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