

SimaPro 6.0 Installation Manual

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1 SimaPro 6.0 system requirements

1.1 System requirements SimaPro 6.0 single and multi user

1.1.1 Operating system

SimaPro 6.0 is a 32-bit Windows application. It runs under Windows 98, Windows ME, Windows NT 4.0, Windows 2000, Windows XP and Windows 2003 Server. It is highly recommended to have the latest service packs installed. SimaPro 6.0 is compatible with Windows XP service pack 2.

1.1.2 Internal Memory

Internal memory is a complex issue. The internal memory needed for a reasonably performance depends on the size of your SimaPro database(s) and the structure of the models you make.

This table shows the recommended memory required for the operating system plus SimaPro. If you plan to do complex calculations or extensive Monte Carlo analysis, more memory is recommended.

If you use other software applications simultaneously with SimaPro, add the required memory for these applications.

Operating system	Recommended RAM (MB)
Windows 2003 Server	512
Windows XP	512
Windows 2000	512
Windows NT 4	256
Windows ME	256
Windows 98	256

1.1.3 Screen resolution

SimaPro can be run in 800 x 600 mode, a higher resolution is recommended.

1.1.4 Processor

A Pentium III, 500 MHz or equivalent is a minimum requirement. We recommend a Pentium IV, 2 GHz processor or equivalent.

1.1.5 Hard disk

You need at least 1 GB disc space for your database(s) when using the single user version. For the multi-user version the database is found on the server, thus local hard disk space is not an issue.

1.2 System requirements SimaPro 6.0 server

1.2.1 Operating system

SimaPro Server is a 32-bit Windows application. It runs under Windows 98, Windows ME, Windows NT 4.0, Windows XP, Windows 2000 and Windows 2003 server. It is highly recommended to have the latest service packs installed. SimaPro 6.0 is compatible with Windows XP service pack 2.

1.2.2 Internal Memory

We recommend a minimum of 256 MB internal memory.

1.2.3 Hard disk

Although SimaPro Server itself is small (2 Mb), at least 1 GB space is needed for your database(s).

1.3 Running SimaPro on Macintosh or Linux

SimaPro is designed to work optimally with Windows operating systems. Should you wish to run SimaPro on a Macintosh, or a PC with Linux as operating system, you must use Windows emulation software. Note that as the emulation software itself will use a lot of internal memory, you may need to add memory to your computer to achieve reasonable performance.

Please note that we do not guarantee the functionality of SimaPro on non Windows operating systems, even when it is run using emulation software. You do so on your own risk; we cannot give any technical support to solve problems.

2 Database backups

Even though the SimaPro databases are stable, it is advised to make regular backups of your databases. This is valid especially when you import new data, or appending substances, as these functions cannot be undone and potentially can overwrite existing data.

The database can default be found in:

'\documents and settings\all users\application data\SimaPro\Database'.

In Windows 98 and NT it is found in \Windows\Profiles\All users\Application data\SimaPro\Database'. Note that SimaPro 5/5.1 databases were default installed in '\program files\simapro 5\database'.

A SimaPro 6 database consists of 65 numbered *.ffd files, in the format DatabaseName00.ffd to DatabaseName64.ffd. It is important that you make a backup of all 65 files as the files are interconnected. Note that the database should not be in use by SimaPro when you create a backup.

It is recommended to make a back up of the standard database immediately after installation, so that you have a copy of the original database for future reference.

3 Updates

PRé Consultants will regularly make software and database updates available to users with a valid service contract. To inform you of the availability of new updates, it is important that we have your correct address details, most importantly your e-mail address. Please let us know any changes in your contact details, or if another person becomes the contact person for SimaPro.

You can check if updates are available yourself via the Check for updates option under Help in the SimaPro menu. This option is only available if you have a valid service contract.

Updates can be downloaded via our web site and come with clear installation instructions. Major upgrades will be sent on CD-ROM.

If you do not have a valid service contract and want to install any updates, you need to upgrade to the current version first. Please contact PRé Consultants or your local dealer for information on how to order an upgrade.

4 Database compatibility

Databases from previous SimaPro versions can be converted to the current SimaPro database format without loss of data. This section describes the possibility to exchange data between the different versions of SimaPro.

SimaPro 5.0 and 5.1 databases

SimaPro 5.0 and 5.1 databases can be opened by SimaPro 6.0. After confirmation, the technical format of the database is automatically converted to the SimaPro 6 format. Once you have opened a SimaPro 5 database with SimaPro 6.0, it can **not** be opened with SimaPro 5.0/5.1 anymore. You have to make a copy of your database(s) if you would like to use both in parallel.

SimaPro 5 CSV files

SimaPro 5 CSV files be imported by SimaPro 6.0. SimaPro 6 CSV files can not be imported in SimaPro 5, due to the fact that the format has been extended.

5 Language support

The SimaPro software can be run in various languages. To change the language in which SimaPro is run, go to Tools in the menu and select Language. SimaPro will instantly update with the chosen language.

Note that the SimaPro databases, help file and manuals are only available in English. A fully translated Japanese version is available via our Japanese dealer Yamatake.

Current languages available are English US, English UK, Spanish, Italian, French, German, Danish, Dutch and Greek.

6 Manuals

All SimaPro manuals are available as PDF file on the installation CD-ROM. The manuals are also installed with SimaPro and can be accessed via the Help menu in SimaPro. Additionally, the manuals can also be found on www.pre.nl/simapro/manuals.

Printed versions of the "Introduction to LCA" and the "SimaPro Tutorial" are sent to registered users with their order.

7 Support

Should you have any questions, please contact the SimaPro helpdesk via:

E-mail: support@pre.nl

Phone: +31 33 4555022

Fax + 31 33 4555024

8 Installing SimaPro

The SimaPro Single User, Multi User and Server installation can be found on the SimaPro 6.0 CD-ROM. The installation program will install the correct SimaPro version and accompanying databases based on your registration code. After installation, activation may be required.

9 SimaPro 6.0 single user installation

The SimaPro 6.0 single user installation installs both temporary and indefinite licenses of SimaPro Analyst, SimaPro Compact, SimaPro Developer and the educational versions SimaPro PhD and SimaPro Faculty license. You have to enter the registration codes during the installation.

For guidance on updating of software and database see the appropriate documents.

9.1 Installation procedure

9.1.1 Installation

Step 1 Insert the SimaPro 6.0 CD-ROM in the CD-ROM drive.

Step 2 An installation menu appears on the screen. If it does not appear:

- Start Windows explorer
- Select the CD-ROM drive
- Double click on 'CDSTART'

Step 3 In the installation menu, click on 'SimaPro 6.0 installation' and double click 'Install SimaPro 6.0 Single User'.

Step 4 Follow the instructions on screen. Note that the installation takes place in 2 steps, first the software is installed, next the database. Choices you make, such as Language and unit settings, can always be changed after installation via the Tools menu.

The default directory where the software is installed is '\Program files\SimaPro 6'
The default directory for the database is
'\Documents and settings\All users\Application data\SimaPro\Database'
(in Windows 98/NT: \Windows\Profiles\All users\Application data\SimaPro\Database')

Step 5 After starting SimaPro 6, activation may be required. This can be done online or offline. The number of activations allowed is equivalent to the number of user licenses you have.

Step 6 Upon opening a database for the first time, you are asked to enter a process identifier prefix. The process identifier is used to give a unique code to the processes you make. The prefix consists of the first 8 characters of this code.

9.1.2 Using the single user database on a network drive

It is possible to use the database from a network server. This may be preferred for backup reasons. Note however that a single user database can only be opened by one user at the time.

To move the database, first close the SimaPro database if it is used by SimaPro. In SimaPro, choose Close SimaPro Database under File in the menu. Using Windows explorer, move the database(s) in the directory '\Program files\SimaPro 5\Database' to a new location on the server. A SimaPro database consist of 65 files with the extension *.ffd. It is important that you move all 65 files as the files are interconnected.

In SimaPro, now choose Open SimaPro Database under File in the menu. Browse or create a new location and select the database directory on the server. If you do not use the locally installed database you can delete it.

9.2 Installing the Franklin and Idemat database

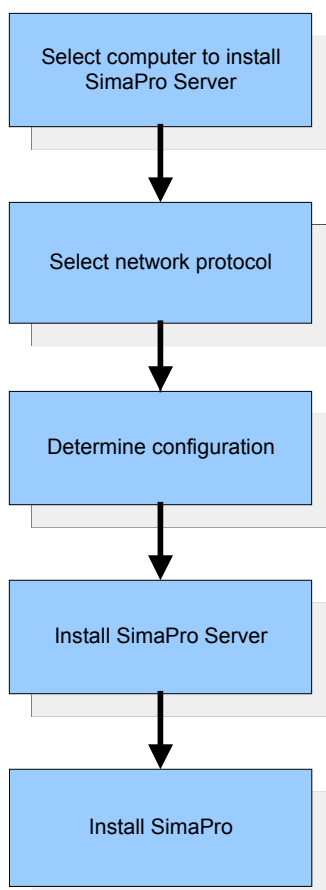
If you ordered a Franklin US LCI 98 or IDEMAT 2001 library with your license, they are automatically installed. To import them into your database, follow the instructions in the document "SimaPro 6: importing additional libraries". This document is enclosed with your order and can also be found on the installation CD-ROM.

10 SimaPro 6.0 multi-user installation

The SimaPro 6.0 multi-user installation installs both temporary and indefinite licenses of all SimaPro 6.0 multi-user versions, including the educational Classroom version. You must enter the registration codes during the installation. For guidance on updating of software and database see the appropriate documents.

10.1 Procedure

The installation of the multi-user version needs several steps:



10.2 Multi-user configurations

SimaPro multi-user is a so-called client-server application. The software has two parts: a client and a server.

The *client* is the SimaPro 6.0 multi-user software, which performs the calculations and handles the user-input. The *server* is a program that controls the storage of the data and is called SimaPro Server. The SimaPro Server allows multiple clients to work within one single SimaPro database.

Multiple computers with SimaPro 6.0 multi-user running can communicate with one server. On the other hand, SimaPro 6.0 multi-user can connect to different servers. In most cases one at a time, but during import and export you can connect to two servers.

SimaPro and the SimaPro Server communicate through a protocol; this is either TCP/IP or IPX/SPX. TCP/IP is the protocol used on Internet. IPX/SPX is the protocol invented by Novell.

From the above, it is clear that you need a computer to run the SimaPro Server and a computer to run SimaPro multi-user. In most cases you use a Windows NT, 2000 server or 2003 Server, or a dedicated computer to run SimaPro Server. It is however possible to install client and server on the same computer.

The possible configurations are:

Network type	Network server	SimaPro Server	SimaPro Client
Local Area Network	Windows NT/2000/2003	on network server	any PC workstation
Local Area Network	Novell	a PC workstation	any PC workstation

PLEASE NOTE: YOU CAN NOT INSTALL SimaPro Server ON A NOVELL SERVER!

10.2.1 Configurations on a Windows network

10.2.1.1 SimaPro Server on network server

Most of the times this is the default configuration:

SimaPro Server: on Windows NT, Windows 2000 or Windows 2003 server

SimaPro Client: on any Windows 98, ME, NT, 2000 or XP workstation

Protocol: TCP/IP (recommended) or IPX/SPX

10.2.1.2 SimaPro Server on a workstation

It is allowed to install SimaPro Server on any workstation. Both the workstation and SimaPro Server must be running when a SimaPro user wants to run SimaPro 6 multi-user. The SimaPro Server and SimaPro can be on the same computer, but it needs to be fast and have 512 Mb or more internal memory.

10.2.2 Configurations on a Novell network

On a Novell network you will need a Windows computer (workstation) to run SimaPro Server. This is because SimaPro Server cannot be run on a Novell server. The computer on which SimaPro Server is installed can be the same as where a SimaPro multi-user is used. But the PC needs to be fast and have enough memory (>512 Mb).

10.2.3 Installing multiple servers

You can install multiple SimaPro Servers if necessary. SimaPro can connect with multiple servers, but only one at a time. Never let two servers connect to the same database, this will give database problems.

10.2.4 Firewalls

SimaPro uses TCP/IP TCP port 25952 and UDP Port 25953. You can change the port numbers under Config/General configuration. If the firewall blocks these ports SimaPro Server will not be found.

Note: Some firewalls recognize new executables by size and version number. After an update you will have to reconfigure your firewall.

On Windows XP (service pack 2) the SimaPro software is added to the accepted programs list of the firewall by the installation program.

10.3 Installing SimaPro 6.0 Server

10.3.1 Installation

The installation of the SimaPro server must be done by experienced personnel of your IT department.

Step 1 Insert the SimaPro 6.0 CD-ROM in the CD-ROM drive.

Step 2 An installation menu appears on the screen. If it does not appear:

- Start Windows explorer
- Select the CD-ROM drive
- Double click on 'CDSTART'

Step 3 In the installation menu, click on 'SimaPro 6.0 installation' and double click 'Install SimaPro Server'.

Step 4 Follow the instructions on screen.

The default directory where the software is installed is '\Program files\SimaPro Server'

The default directory for the database is

'\Documents and settings\All users\Application data\SimaPro\Database'

(in windows 98/NT it is \Windows\Profiles\All users\Application data\SimaPro\Database')

Default settings are: TCP/IP and servername=SPServer. Run the SimaPro Server to change them.

10.3.2 Manually install SimaPro Server as a service

Only for system administrators

On Windows NT, 2000 and 2003, you can install SimaPro Server as a Service. This has the advantage that you do not have to login into Windows Server to start SimaPro Server.

If SimaPro Server is running as a service you can *not* change parameters and add aliases. Run the service only if the default configuration is fine or your configuration is doing well.

To start the service:

- If SimaPro Server is running: stop SimaPro Server
- Login on the server computer as System administrator
- Install and start the service with 'SPSVC Install' from the command prompt.

Other commands are:

SPSVC Stop

SPSVC Run

SPSVC Uninstall

To change settings in the SimaPro Service start the SPServer program. First, the service is stopped. Make your changes. When you exit the SPServer program the service is restarted with the new settings.

10.3.3 Change settings

After installing SimaPro Server is ready and running. You can proceed with installing the SimaPro 6.0 multi-user program. If you like, you can change some settings:

Using UNC Paths in SimaPro Server Service

Although it is not recommended, you can enter a UNC path as alias. However, to let this run on Windows 2000 or later, the service has to be run under an account that has network access. The default service has no network access. Stop the service from the service management console. Click on properties and enter an account that has network access. Start the service again.

Name (default SPSEVER)

The name of the server is as it is shown in SimaPro 6.0 multi-user. Set this name once when you are installing SimaPro Server and never change it. If you change the name, you have to change it in all SimaPro multi-user installations as well. If you install multiple servers, please choose different names.

Locations (Database directories)

These are the directories where the SimaPro databases are stored. You can store multiple database in one directory. The directory is not visible in SimaPro 6.0 multi-user, only the Alias is visible.

Example:

Alias: standard

Directory: \Document and settings\all users\application\SimaPro\Database.

As databases can only be opened from the locations defined in the SimaPro Server, it is advisable to create extra locations/aliases for users that are often working with their own databases. This prevents that the system administrator regularly has to create new locations.

Start automatically

If checked (default) SimaPro is started automatically when booting the server computer.

Start minimized

If checked SimaPro Server will minimize automatically into the tray icon on the lower right corner of the screen. Clicking on the tray icon will make it reappear.

10.4 Installing SimaPro 6.0 multi-user (client)

The SimaPro 5 multi-user (client) installation installs both temporary and indefinite licenses of SimaPro 6.0 multi-user and SimaPro 6.0 educational multi-user. You can enter the registration codes during the installation or when starting SimaPro.

If the computer connected to the network has Windows NT/2000/XP as operating system, you may need System Manager rights for the computer to install the software. Please contact your own IT department for details on how to login with System Manager rights. If your computer's operating system is Windows 98, you do not need to have System Manager rights and you can install the software in a normal way.

Please note that SimaPro Server must be installed first!

10.4.1 Installation

Step 1 Insert the SimaPro 6.0 CD-ROM in the CD-ROM drive.

Step 2 An installation menu appears on the screen. If it does not appear:

- Start Windows explorer
- Select the CD-ROM drive
- Double click on 'CDSTART'

Step 3 In the installation menu, click on 'SimaPro 6.0 installation' and double click 'Install SimaPro 6.0 Multi User'.

Step 4 Follow the instructions on screen. Choices you make, such as Language and unit settings, can always be changed after installation via the Tools menu.

The default directory where the software is installed is '\Program files\SimaPro 6'
The default directory for the database is
'\Documents and settings\All users\Application data\SimaPro\Database'
(on windows 98/NT it is \Windows\Profiles\All users\Application data\SimaPro\Database')

Step 5 After starting SimaPro 6, activation may be required. This can be done online or offline. The number of activations allowed is equivalent to the number of user licenses you have.

Step 6 Selecting the server

After installing, start the SimaPro 6.0 multi user and select 'Open SimaPro database' under File in the menu. In most cases the SimaPro Server name appears on screen. It will show as SPSERVER@10.46.0.7, SPSERVER@MYNAME.MYDOMAIN or SPSERVER@PRE.NL (only examples!).

If a server name does not appear, click on the 'Servers' button, next click 'Refresh'. If the list stays empty, click 'New' and type in the name of your SimaPro Server. You can find this name on the SimaPro Server window behind 'server name'. Type the name exactly as typing errors will prevent SimaPro from finding the server. Next, click OK and SimaPro will try to connect to the SimaPro Server. If successful a list of locations will appear. Locations are aliases for directories on the SimaPro Server. Note that only databases in one of the locations can be opened, and that locations can only be created using the SimaPro Server software, not in the client.

Step 7 Login in the database as manager. There is no password for the manager defined, simply leave the password field blank. If you want to use to login as one of the predefined users, use the user name as the password.
To change the manager password, create new users and user types, go to User Management under Tools in the SimaPro menu.

Step 8 Upon opening a database for the first time, you are asked to enter a process identifier prefix. The process identifier is used to give a unique code to the processes you make. The prefix consists of the first 8 characters of this code.

10.5 Installing the Franklin and Idemat database

If you ordered a Franklin US LCI 98 or IDEMAT 2001 library with your license, they are automatically installed. To import them into your database, follow the instructions in the document "SimaPro 6: importing additional libraries". This document is enclosed with your order and can also be found on the installation CD-ROM.

11 Installing ECO-edit

ECO-edit is the editor for ECO-it databases. ECO-it is a simple to use Ecodesign tool, and can be installed as free 10 day evaluation version before you decide to order. See the SimaPro installation CD-ROM for more information.

Users of SimaPro can request a free registration code for ECO-edit.

Installation

- To install ECO-edit, start the installation menu on the CD-ROM, click on 'ECO-it and ECO-edit' and 'Install ECO-edit'. Follow the instructions on screen.
- To install ECO-it, start the installation menu on the CD-ROM, click on 'ECO-it and ECO-edit' and 'Install ECO-it'. Follow the instructions on screen. This installation will install ECO-it and ECO-edit.
- Start ECO-edit from the start menu. You will be asked to enter your registration code. After registration, you can create new ECO-it databases or edit the existing Eco-indicator 95 and 99 databases.