

# SimaPro 7 Installation Manual

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# Contents

- 1 SINGLE USER INSTALLATION ..... 1**
- 1.1 INSTALLATION PROCEDURE ..... 1
  - 1.1.1 Installation ..... 1
  - 1.1.2 Using the single user database on a network drive ..... 1
- 2 MULTI-USER INSTALLATION ..... 2**
- 2.1 MULTI-USER CONFIGURATIONS ..... 2
  - 2.1.1 Configurations on a Windows network ..... 2
  - 2.1.2 Installing multiple servers ..... 2
  - 2.1.3 Firewalls ..... 3
- 2.2 INSTALLING SIMAPRO 7 DATABASE SERVER ..... 3
  - 2.2.1 Installation as a console application ..... 3
  - 2.2.2 Install SimaPro Database Server as a service ..... 3
  - 2.2.3 Change settings ..... 4
- 2.3 INSTALLING SIMAPRO 7 MULTI-USER (CLIENT) ..... 4
  - 2.3.1 Installation ..... 5
- 2.4 USING SIMAPRO MULTI USER AS PSEUDO SINGLE USER ..... 5
  - 2.4.1 TCP Problems ..... 5
- 2.5 AUTOMATICALLY CONFIGURE CLIENTS ..... 5
- 2.6 IMPORTING USERS FROM WINDOWS ..... 6
- 3 SIMAPRO 7 SYSTEM REQUIREMENTS ..... 7**
- 3.1 SYSTEM REQUIREMENTS SIMAPRO 7 SINGLE AND MULTI USER ..... 7
  - 3.1.1 Operating system ..... 7
  - 3.1.2 Internal Memory ..... 7
  - 3.1.3 Screen resolution ..... 7
  - 3.1.4 Processor ..... 7
  - 3.1.5 Hard disk ..... 7
- 3.2 SYSTEM REQUIREMENTS SIMAPRO 7 DATABASE SERVER ..... 7
  - 3.2.1 Operating system ..... 7
  - 3.2.2 Internal Memory ..... 7
  - 3.2.3 Hard disk ..... 7
- 4 USING SIMAPRO IN SPECIAL SITUATIONS ..... 8**
- 4.1 RUNNING SIMAPRO WITH TERMINAL SERVICES ..... 8
- 4.2 RUNNING SIMAPRO MULTI USER VERSION ON A WAN ..... 8
- 4.3 RUNNING SIMAPRO ON MACINTOSH OR LINUX ..... 8
- 5 ACTIVATION ..... 8**
- 6 UPDATES ..... 8**
- 7 DATABASE BACKUPS ..... 9**
- 8 DATABASE COMPATIBILITY ..... 9**
- 9 LANGUAGE SUPPORT ..... 10**
- 10 SUPPORT ..... 10**
- APPENDIX: SIMAPRO DIRECTORIES ..... 11**

# 1 Single user installation

The SimaPro 7 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.

The installation files can be found on the SimaPro 7 CD-ROM. Alternatively, you can always download the installation file from [www.pre.nl/simapro/install](http://www.pre.nl/simapro/install). The installation program will install the latest SimaPro version and accompanying databases based on your registration code. After installation, activation may be required.

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

## 1.1 Installation procedure

### 1.1.1 Installation

**Step 1** Insert the SimaPro 7.0 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 7.0 installation' and double click 'Install SimaPro 7.0 Single User'.

**Step 4** Follow the instructions on screen.

The default directory where the software is installed is '\Program files\SimaPro 7 single'

The default directory for the database is:

'\Documents and settings\All users\(\Shared) Documents \SimaPro\Database'

(in Windows 98: \Windows\Profiles\All users\Application data\SimaPro\Database').

You can choose a different directory for the database installation, for example a server drive.

This may be preferred for backup reasons.

**Step 5** Upon starting SimaPro 7 for the first time, activation of your license may be required.

### 1.1.2 Using the single user database on a network drive

It is possible to use the database on a network server. This may be preferred for backup reasons.

Note that a single user database can only be opened by one user at the time.

During the installation you can indicate the drive and path where the SimaPro database will be installed. If you have installed the database in the default directory, you can move it to a new location. To move the database, make sure SimaPro is closed. Using Windows Explorer, move or copy the database(s) to a new location on the server.

A SimaPro 7 database consists of 74 files with the extension \*.nx1. It is important that you move all 74 files, as the files are interconnected.

Next, start SimaPro and choose Open SimaPro Database under File in the menu. Choose Browse and select the database directory on the server. If you do not use the locally installed database you can delete it.

## 2 Multi-user installation

The SimaPro 7 multi-user installation installs both temporary and indefinite licenses of all SimaPro 7 multi-user versions, including the educational Classroom version. You must enter the registration codes during the installation. The installation of the multi-user version needs 2 steps:

1. Install SimaPro Database Server
2. Install the clients

The installation files can be found on the SimaPro 7 CD-ROM. Alternatively, you can always download the latest installation file from [www.pre.nl/simapro/install](http://www.pre.nl/simapro/install). The installation program will install the SimaPro version and accompanying databases based on your registration code. After installation, activation may be required.

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

### 2.1 Multi-user configurations

SimaPro multi-user is a so-called client-server application. The client is the SimaPro 7.0 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 Database Server. The SimaPro Database Server allows multiple clients to work within a single SimaPro database.

Multiple computers with SimaPro 7.0 multi-user running can communicate with one server. On the other hand, SimaPro 7.0 multi-user can connect to different servers. In most cases to one at a time, but during import and export you can connect to two servers.

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

#### 2.1.1 Configurations on a Windows network

##### 2.1.1.1 SimaPro Database Server on network server

Mostly this will be the default configuration:

- SimaPro Database Server: on Windows NT, 2000, XP or Windows 2003 server
- SimaPro client: on any Windows 98, ME, NT, 2000 or XP workstation
- Protocol: TCP/IP

##### 2.1.1.2 SimaPro Database Server on a workstation

It is allowed to install SimaPro Database Server on any workstation. Both the workstation and SimaPro Database Server must be running when a SimaPro user wants to run SimaPro 6 multi-user.

The SimaPro Database Server and SimaPro can be on the same computer, but it needs to be fast and have 512 Mb or more internal memory.

##### 2.1.2 Installing multiple servers

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

### 2.1.3 Firewalls

SimaPro uses TCP/IP ports 16000 and 17000. If the firewall blocks these ports, the SimaPro Database Server will not be found.

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

On Windows XP, the SimaPro software is added to the accepted programs list of the firewall during installation.

## 2.2 Installing SimaPro 7 Database Server

You can install the Database server as a console application or as a service. On most servers it is recommended to install as a service. The difference between a service and a console application (such as most windows programs) is that you have to start the console application to get it to work. A service, on the other hand, is started automatically when the computer starts. It often does its work 'in silence'.

If you use the SimaPro multi-user and SimaPro database server on a laptop, we recommend that you do not install the SimaPro Database Server as a service but start the server manually before starting SimaPro.

### 2.2.1 Installation as a console application

This installation must be done by experienced personnel of your IT department.

**Step 1** Insert the SimaPro 7.0 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 7.0 installation' and double click 'Install SimaPro Database 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'

Choose 'No' at the question 'Do you want to install SimaPro Server as a service?'

Default setting: servername=SPServer.

### 2.2.2 Install SimaPro Database Server as a service

*Only for system administrators*

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

Follow the procedure as in "Installation as a console application", but check the option "install as a service"

A user named "SPServiceUser" is automatically created. This user is granted "logon as a service" rights. This user is not deleted on uninstall. You have you delete the user and the user profile to erase all traces.

System administrators can use the following commands to manage the service:

### 2.2.2.1 Uninstall

Command: NxServer /Uninstal

This installs the service. Please note that the Windows Services Console is sometimes not updated if you are viewing it. Please close it and reopen.

This is an automatically created shortcut in the installation directory.

### 2.2.2.2 Install manually

Command: NxServer /install /start /UserName:aUsername /Password:aPassword

(This is an automatically created shortcut in the installation directory.)

Use a user that has "logon as a service" right. You can check this in "administrative tools" "local security policy" "local policies" "user rights assignments"

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

You can use this if you would like to install the service manually. For example after testing the SimaPro Database Server console application.

### 2.2.3 Change settings

When SimaPro Database Server is ready and running, you can proceed with installing the SimaPro 7.0 multi-user program. If you like, you can change some settings:

#### **Name (default SPSERVER)**

The name of the server is as it is shown in SimaPro 7.0 multi-user. Set this name once when you are installing SimaPro Database Server and never change it afterwards. If you change the name, you have to change it in all SimaPro multi-user installations as well. If you install multiple servers, you must choose different server names.

#### **Aliases (Database directories)**

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

Example:

Alias: standard

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

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

## 2.3 Installing SimaPro 7 multi-user (client)

The SimaPro 7 multi-user (client) installation installs both temporary and indefinite licenses of SimaPro 7 multi-user and SimaPro 7 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 IT department for details on how to login with System Manager rights. If your computer's operating system is Windows 95/98, you do not need to have System Manager rights and you can install the software in a normal way.

See also the next paragraph on automatically configuring clients.

*Please note that SimaPro Database Server must be installed first!*

### 2.3.1 Installation

**Step 1** Insert the SimaPro 7.0 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 7.0 installation' and double click 'Install SimaPro 7.0 Multi User'.

**Step 4** Follow the instructions on screen.

The default directory where the software is installed is '\Program files\SimaPro 7 multi'

**Step 5** After starting SimaPro 7, activation may be required. This can be done online or offline.

**Step 6** Selecting the server

After starting SimaPro 7.0 multi user, select 'Open SimaPro database' under File in the menu. In most cases the SimaPro Database Server name appears on screen. It will show as SPSERVER@10.46.0.7, SPSERVER@MYSERVER.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 the SimaPro Database Server in your organization. You can find this name in the SimaPro Database Server window option: Statistics, Local Address. 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 Database Server. If successful a list of locations will appear. Locations are aliases for directories on the SimaPro Database Server. Note that only databases in one of the locations can be opened, and that locations can only be created using the SimaPro Database Server software.

**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, or to create new users and user types, go to User Management under Tools in the SimaPro menu.

## 2.4 Using SimaPro Multi user as pseudo single user

You can install both the SimaPro Database Server and the SimaPro muti user on a laptop to use it as pseudo single user version. Follow the normal instructions for the installation of the server. Copy the database files to the alias directory of the server.

### 2.4.1 TCP Problems

If SimaPro can not find the local server when the network is not connected you need to install the so called 'Local loopback adapter'. Look on Internet for installation guidelines or ask support@pre.nl.

## 2.5 Automatically configure clients

In a multi user environment with many clients you can use this procedure to speed up the rollout. It also prevents you from updating all client installations when an update is available, as there is only one client to update.

1. Install the SimaPro multi user client on the server in a Shared directory or directory in which the target group has read access. Or copy the installed SimaPro.exe + dll files to a shared directory.
2. Copy the SimaPro.Lct file to this Shared directory as well.
3. Create a shortcut on all user's desktops or start menus. You can use logon-scripts, profiles or other network management tools.
4. Use command line parameters in this shortcut.

```
ExampleF:\Shared applications\SimaPro\SimaPro.Exe  
/Server:SPServer@central.local /Alias:default /Database:Professional
```

(NOTE: The command line parameters will not work if the user has opened a database in SimaPro before.)

## 2.6 Importing Users from Windows

You can import users from Windows or Active directory with a wizard. Go to Tools, User Management, Users and click 'import users'.

1. Select a domain, a computer or an Excel file.
2. Select the users and groups you want to import.
3. You can choose to create a project for every user.
4. You can choose to create passwords.
5. The results are stored in an Excel file that you can use to mail merge the users.

## 3 SimaPro 7 system requirements

### 3.1 System requirements SimaPro 7 single and multi user

#### 3.1.1 Operating system

SimaPro 7 is a 32-bit Windows application. It runs on 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.

#### 3.1.2 Internal Memory

Internal memory is an important but complex issue. The amount of memory needed for a reasonable performance depends on the size of your SimaPro database and the structure of the models you make.

The table below 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

#### 3.1.3 Screen resolution

Although the software can be run in 800 x 600 mode, a higher resolution is recommended.

#### 3.1.4 Processor

A Pentium III, 500 MHz processor or equivalent is a minimum requirement. We recommend a Pentium IV, 2 GHz processor or equivalent. Multi processor and hyperthreaded PC's are supported, especially for the SimaPro Database Server.

#### 3.1.5 Hard disk

Check if there is enough space on the hard drive. 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, local hard disk space is not an issue.

### 3.2 System requirements SimaPro 7 Database Server

#### 3.2.1 Operating system

The SimaPro 7 Database Server is a 32-bit Windows application. It runs on Windows 98, Windows ME, Windows NT 4.0, Windows XP, Windows 2000 and Windows 2003 server. It is recommended to have the latest service packs installed.

#### 3.2.2 Internal Memory

We recommend a minimum of 256 MB internal memory.

#### 3.2.3 Hard disk

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

## 4 Using SimaPro in special situations

### 4.1 Running SimaPro with Terminal Services

Because SimaPro is quite a simple executable without the need of much dll's, you can run SimaPro with Windows Terminal Service or Citrix Metaframe easily. You have to take care of the dll's in the SimaPro directory if you copy it. SimaPro uses no special external programs except for the Excel link if Excel is running. If Excel is not running on the computer it reads the Excel files directly.

### 4.2 Running Simapro multi user version on a WAN

You can use SimaPro over a Wan with reasonable high speeds. To improve performance you can play around with the compression settings in the option screen (menu tools, options, tab: database, network packet compression level). 0 means none and 9 is the highest. The packets over the WAN are compressed to get more speed.

### 4.3 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 a 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 this on your own risk; we cannot give any technical support to solve problems.

## 5 Activation

The SimaPro software (except the database server) has to be activated, although it is not necessary for all versions. You can activate a single user two times.

If you want more installations you need to de-activate or request an extra activation through our helpdesk with proper argumentation. You can only de-activate by uninstalling the software. This will work only if you have activated automatically. More information is given during the activation process.

Note that during the activation process, no personal information is collected.

## 6 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.

## 7 Database backups

You probably know that PCs, laptops and even network servers crash, get stolen, fall, get coffee spilled over them or get affected by viruses. You also know that your colleagues or your neighbour's children may accidentally delete a project or perhaps a database file. You also know that you, nor your own children, never ever do this kind of stupid things. And we at PRé Consultants know that although we quite well succeeded in creating a stable system, there still is a very small chance that SimaPro crashes beyond repair.

Murphy's Law dictates there is a minor chance that such a problem occurs to you. But if it happens, it is typically just before an important deadline or when you have spent a week entering data into SimaPro.

How dramatic it sounds, it is not a big problem really. You simply get a new computer, reinstall SimaPro, and restore your last back up so you ideally loose only a day's work. If only you made that backup yesterday...

Thus: do make regular backups. The backup should not be on your own PC, but on a CD or a server drive for example. If your server is centrally backed up every night, make sure all the SimaPro database files are included, and that it is indeed possible to retrieve them.

So, start now with making a backup of the originally installed SimaPro database. You can use the backup function in SimaPro, under File, Database Management in the menu. And do not forget to make the next backup soon!

If you make manual backups, this information will be useful:

- SimaPro must be closed when you make a backup, and no users may be logged in the multi-user version.
- A SimaPro 7 database consists of 75 numbered \*.nx1 files, in the format DatabaseName00.nx1 to DatabaseName74.nx1.
- All files must be saved at the same time as they are interconnected.
- The default location of SimaPro databases is C:\Documents and Settings\All users\Documents\Simapro\Database.

## 8 Database compatibility

Databases from previous SimaPro versions (5.0, 5.1, 6.0) can be converted to SimaPro 7 database format without loss of data. This section describes the possibility to exchange data between the different versions of SimaPro.

### SimaPro 5.0, 5.1 and 6.0 databases

SimaPro 6.0 databases must be converted with the special conversion tool to SimaPro 7 format. The SimaPro 6 database is preserved so you can continue working with SimaPro 6 as well. Note that a technical conversion does not mean the database is updated with the latest data.

### SimaPro 5 and 6 CSV files

SimaPro 5 and 6 formatted CSV files be imported by SimaPro 7. SimaPro 7 CSV files can not be imported in SimaPro 5 and 6, due to the fact that the format has been extended.

### Previous versions

Please contact us via [support@pre.nl](mailto:support@pre.nl) or phone +31 33 4555022 to obtain detailed information.

## 9 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. Although SimaPro will instantly update with the chosen language, it is recommended to restart SimaPro.

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

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

## 10 Support

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

E-mail: [support@pre.nl](mailto:support@pre.nl)

Web site : [www.pre.nl](http://www.pre.nl)

Phone: +31 33 4555022

Fax + 31 33 4555024

## Appendix: SimaPro directories

Below you find the default directories of SimaPro. Read for C: your default drive.

### Software

Filenames: various

C:\Program files\SimaPro 7 Single  
C:\Program files\SimaPro 7 Multi  
C:\Program files\SimaPro 7 Server

### Manuals

Filename: \*.pdf files

Subdirectory \Manuals of Software

### SimaPro 7 Database

Filename: 75 numbered \*.nx1 files, default starter00 to 74.nx1 or professional00 to 74.nx1

Windows XP and 2003 Server:

C:\Documents and Settings\All Users\Shared Documents\SimaPro\Database\

Windows 2000:

C:\Documents and Settings\All Users\Documents\SimaPro\Database\

Windows 98 and NT:

C:\Windows\Profiles\All Users\Documents\SimaPro\Database\

### License

Filenames: simapro.lct

Windows XP, 2000, 2003 Server:

C:\Documents and Settings\All Users\Application data\SimaPro\Single

C:\Documents and Settings\All Users\Application data\SimaPro\Multi

Windows 98 and NT:

C:\Windows\Profiles\All Users\Documents\Application data\SimaPro\Single

C:\Windows\Profiles\All Users\Documents\Application data\SimaPro\Multi

### User output and export

Filenames: \*.txt, \*.xls, \*.csv, \*.bmp, \*.xml

Windows XP, 2000, 2003 Server:

C:\Documents and Settings\All Users\Documents\SimaPro\Various subdirectories.

Windows 98 and NT:

C:\Windows\Profiles\All Users\Documents\SimaPro\Various subdirectories