

SimaPro 6: updating from SimaPro 5.1

Contents

1 Introduction	1
1.1 Update choices	1
1.2 Summary of the update procedure.....	2
1.3 Making backups.....	2
1.4 Support	3
2 Installation of SimaPro 6	3
2.1 Procedure	3
3 Database conversion to SimaPro 6 format	4
3.1 Procedure	4
4 Importing libraries	4
4.1 Changes in the data	5
4.2 Database locations.....	5
4.3 Procedure	6
5 Appending substance names	7
5.1 Procedure	7

1 Introduction

This document describes how to update your SimaPro 5.1 database to SimaPro 6. To do this, a number of steps have to be performed which are explained below. They are not difficult, but each step could take considerable computer time (hours) as the SimaPro databases are simply becoming larger and larger.

We therefore suggest that you do the update on a separate and preferably fast computer, so that you can continue your normal work in between the various steps. Owners of a SimaPro multi-user version can request a temporary single user license to work locally.

1.1 Update choices

There are a number of ways you can use your current SimaPro 5.1 database with SimaPro 6. Think carefully about what option is best for you!

No update of SimaPro 5.1

This means that you do install SimaPro 6, but do not convert your SimaPro 5.1 database to SimaPro 6. You keep the SimaPro 5.1 database and software as an archive. You continue your work in the new SimaPro 6 database, so that you have a fresh start with a "clean" database.

Advantages

- This will take the least time.
- You have a clean SimaPro 6 database.

Disadvantages

- Current projects must be finalized in SimaPro 5.1, no access to new features or new data.
- Data in the SimaPro 5.1 database cannot be made available in SimaPro 6

Technical conversion of SimaPro 5.1 database only

You only do the technical conversion of your SimaPro 5.1 database to SimaPro 6. You do not import new data and the new substance nomenclature. You start working in

the new SimaPro 6 database as delivered by PRé, so that you have a fresh start with a “clean” database.

Advantages

- You have a clean SimaPro 6 database.
- You have access to the new features in SimaPro 6
- Relatively quick

Disadvantages

- Current projects must be finalized in the converted SimaPro 5.1 database, no access to new data.
- Data in the converted SimaPro 5.1 database cannot be made available in the new SimaPro 6 database(s) as the substance nomenclature has not been adjusted.

Full integration

After the technical conversion of your SimaPro 5.1 database to SimaPro 6, you import new data, the new process category structure and the new substance nomenclature. This way you make your SimaPro 5.1 database fully compatible with SimaPro 6. You can choose to continue your work in the integrated database or start with a clean SimaPro 6 database.

Advantages

- You can still start working in a clean SimaPro 6 database
- You have access to all new features and data in SimaPro 6
- Data from your SimaPro 5.1 database can be exchanged with SimaPro 6.

Disadvantages

- Conversion can take a long time
- You may need to spend time on updating substance names that you added yourself

1.2 Summary of the update procedure

The update procedure can be summarised as follows:

- 1) Installation of SimaPro 6**
Before you can start updating, you have to install SimaPro 6.
- 2) Database conversion to SimaPro 6 format**
In this step the technical conversion of the SimaPro 5.1 database to SimaPro 6 format is made. Your data are not changed, but after updating you cannot use the database with SimaPro 5 anymore.
- 3) Importing libraries**
Here you import the new libraries from various databases, such as ecoinvent (if ordered) and the USA Input Output Database 98. Import of all existing libraries is needed to update to the new category structure and the new substance nomenclature in SimaPro 6.0. Any data you added yourself are not changed. You also need to import updated impact assessment methods.
- 4) Appending substance names**
In this step, all default SimaPro 5 substance names in your database will be converted to the new substance nomenclature in SimaPro 6. All substance names in the database, including substance names in processes and methods that you created, will be changed. Substances you have changed or added yourself are not changed and should be changed manually.

To fully integrate your SimaPro 5.1 database in SimaPro 6 you must complete all 4 steps in order to avoid future problems!

1.3 Making backups

Do not forget to make backups of the database after each completed step of the import procedure. Also make a backup of your SimaPro 5.1 database before you start. Once you have converted the data to SimaPro 6 format, you cannot open the database with SimaPro 5 anymore!

SimaPro must be closed when you make a backup, and no users may be logged in in the multi-user version.

A SimaPro 5 database consists of 63 numbered *.ffd files, in the format DatabaseName01.ffd to DatabaseName63.ffd.
The default location is C:\Program Files\SimaPro5\Database.

A SimaPro 6 database consists of 65 numbered *.ffd files, in the format DatabaseName00.ffd to DatabaseName64.ffd.

1.4 Support

If you have any questions, please contact the helpdesk via support@pre.nl or by phone: +31 33 4555022. You may also contact your local SimaPro dealer.

2 Installation of SimaPro 6

The update to SimaPro 6 involves a completely new installation of the software. Your SimaPro 5.1 software and database(s) are not overwritten; you can still use them after installation of SimaPro 6.

Below you find a short summary of the installation procedure. The procedure is described in the Installation Manual available on the SimaPro 6 CD-ROM. We recommend that multi-user installations are done by your network administrator.

SimaPro 6 is compatible with Windows XP Service Pack 2.

2.1 Procedure

- 1) Insert the SimaPro 6.0 CD-ROM in your CD-ROM drive. If the installation menu does not automatically appear, start Windows Explorer and double click CDStart.exe in the CD-ROM drive directory.
- 2) In the installation menu, click on "SimaPro 6.0 installation" and click on the SimaPro version you want to install. For a multi user version you first need to install the SimaPro 6.0 Server, then the multi-user (client). Administrator login may be required for Windows 2000, 2003 Server and XP.
- 3) A new registration name and code are needed to install SimaPro 6. You can find these codes in the accompanying letter. SimaPro 5.1 codes are not valid for SimaPro 6.
- 4) The installation consists of two steps. First the software is installed, then the database(s). Based on the registration code, the database(s) you are allowed to use are installed.

-The software is installed in C:\Program Files\SimaPro 6.0 "*version*".

-The databases are installed in:

C:\Documents and Settings\All Users\Documents\SimaPro\Database
(under Windows XP the Documents directory is shown as "Shared documents")

Under Windows 98 and NT you can find the database(s) in:

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

- 5) Upon starting the SimaPro 6.0 software for the first time, activation may be needed. This can be done online or offline. The activation makes use of certain hardware characteristics of your PC. No personal data are collected.
- 6) Upon opening a SimaPro 6 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 each new process you make. The prefix forms the first 8 characters of this code. You can enter any combination of characters, but your company name or personal name may be preferred.
- 7) SimaPro will automatically open the default database. The default database is dependent on which SimaPro version you have and whether you have ordered the ecoinvent database.

3 Database conversion to SimaPro 6 format

This step will perform the technical conversion of the SimaPro 5.1 database to SimaPro 6 format. Your data are not changed.

However, once you have converted the database you cannot open it anymore with SimaPro 5.1. If you still want to be able to use your SimaPro 5.1 database with the SimaPro 5.1 software, make sure you make a database backup!

3.1 Procedure

- 1) Make a backup of the SimaPro database(s) you are going to convert.
- 2) Make sure SimaPro 5 is closed. In the SimaPro 5 multi-user version, make sure no users are logged in.
- 3) Start SimaPro 6. Use Open database under File to select the SimaPro 5 database to convert. Browse to C:\Program Files\SimaPro5\Database, which is the default database location.

Multi user version: ask your system administrator to move the SimaPro 5 library to the new database location or to add the current SimaPro 5 location as a new location in the SimaPro 6.0 server. In this case the SimaPro 5.0 Server should be shut down.

- 4) Upon opening, SimaPro 6.0 will detect a SimaPro 5 database. After confirmation it will start the technical conversion. This can take considerable time.
- 5) Once the conversion is finished, make a new backup and proceed with the next step.

4 Importing libraries

In this step you really start changing your database, as you will import libraries that will overwrite your existing libraries. This is needed to make your existing databases compatible with the new category structure used for processes in SimaPro 6 and to add the new LCA wizards to your database. Furthermore, you will add new libraries and new impact assessment methods to your database.

Import of libraries in converted SimaPro 5 databases means that the existing processes in these libraries are overwritten. If you have made any changes in the original processes in the libraries, you will lose these changes! If you have added processes to the libraries yourself, for example by copying and editing a process, you will not lose these data as they are not overwritten.

Note that product stages and existing methods will not be overwritten.

If you did make changes in one or more original processes in the original SimaPro 5.1 libraries, you should not import these libraries during the import procedure described below. In this case however, the processes in these libraries are not updated to the new category structure. You will end up with a database that uses two different category structures.

4.1 Changes in the data

The data you are about to import are different from your existing data in the following way:

- A new category structure for processes has been implemented. Many processes have been assigned to a different category in order to bring more structure in the process index. Ultimately it will help you to find processes easier. In the beginning however, you may not find a process in the category it used to be. With the Find function (Ctrl+F) you can quickly search for the new location of a process.
- All existing libraries have been updated to the new SimaPro 6 substance nomenclature, based on the SETAC and ecoinvent guidelines. Where appropriate, subcompartments have been added to the substance names. New libraries automatically have the SimaPro 6 nomenclature. Again, you will have to get adjusted to this new nomenclature. We added searchable CAS numbers and a comment field that is often filled with the chemical formula and synonyms of substance so that it will be easier to find the substance you are looking for. See the document "SimaPro 6 What is new" for more details.
- New impact assessment methods have been made that are updated for the new nomenclature. Some mistakes found were corrected. Furthermore, some methods have been updated to contain new characterisation factors, as described in the methods comment fields. Note that your existing methods are not overwritten.
- New Wizards have been developed.

4.2 Database locations

To update your database you have to import libraries from various databases.

Update database to SimaPro 6

The UpdateTo6 database contains all the libraries you had in your SimaPro 5 database, except the Idemat 2001 library, Franklin US LCI 98 library and the ecoinvent libraries (see below). It also includes the updated methods in the methods library. Furthermore, it contains the new USA Input Output database 98 library.

You can find the UpdateTo6 database under:

C:\Documents and Settings\All Users\Documents\SimaPro\Database\UpdateTo6
(under Windows XP the Documents directory is shown as "Shared documents")

Under Windows 98 and NT you can find the database(s) under:

C:\Windows\Profiles\All Users\Documents\SimaPro\Database\UpdateTo6

Idemat 2001 library and Franklin US LCI 98 library

The Idemat 2001 library and Franklin US LCI 98 library are installed as separate databases, named Idemat and Franklin. These can be found under:

C:\Documents and Settings\All Users\Documents\SimaPro\Database
(under Windows XP the Documents directory is shown as "Shared documents")

Under Windows 98 and NT you can find the database(s) in:

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

The Franklin database will only be installed if you have the right to use it. Educational users must have purchased this library separately with their SimaPro 5 license.

A separate document "SimaPro 6: importing additional libraries" describes the import of these libraries, but you can follow the (same) procedure below as well.

Ecoinvent libraries

The ecoinvent unit and system processes libraries can be found in either the Analyst6 or Compact6 database. Which database is installed depends on your SimaPro version. Ecoinvent libraries are only available to SimaPro 5 users who purchased an ecoinvent database license.

The Analyst6 or Compact6 database can be found under:
C:\Documents and Settings\All Users\Documents\SimaPro\Database
(under Windows XP the Documents directory is shown as "Shared documents")

Under Windows 98 and NT you can find the database(s) in:
C:\Windows\Profiles\All Users\Documents\SimaPro\Database

4.3 Procedure

Make sure you have made a backup of the database in which you want to import the data.

Multi user version: It is important that you ask your system administrator to add the database subdirectory ../SimaPro/database/UpdateTo6 as a new location in the SimaPro 6.0 server. This will make sure you can find and open the database in the procedure below.

To import a library in a SimaPro database, follow these steps:

- 1) Start SimaPro 6 and open the database to which the libraries should be imported. SimaPro automatically opens the last opened database when you start SimaPro. Check if this is the converted SimaPro 5 database you want to import the data in. You can use Open database under File to select a different database. (Converted) SimaPro 5 databases can be found by default under C:\Program Files\SimaPro5\Database.

Multi user version: Start SimaPro 6 multi user and login as Manager. As the database will be locked during import, no other users may be logged in at this moment. You can check who is logged in under Tools, User management, Sessions. Continue as above.

- 2) Under File, select Import SimaPro Database.
- 3) Use Browse to select the database you want to import and click on Open. An overview of available data in the database will be shown in the Projects and General objects tabs.
- 4) Select the library or libraries you want to import. You can also click on the "Select all" button to select all data (recommended for the UpdateTo6 database). Selection of multiple libraries and projects can be done by holding down the Shift or Ctrl button when you click on the library name. This way you can also deselect libraries that you do not want to import.
- 5) To delete all empty process (sub)categories in all projects and libraries in your database, select the "Delete empty process categories" option. It is strongly recommended to do this.

In SimaPro 6, a new category structure for processes has been implemented. The imported database will overwrite the existing processes so that you will see the processes in the new structure. However, the old category names will not be automatically deleted. If you select the option "Delete empty process categories" during import, all empty process (sub)categories in all projects and libraries in your database will automatically be deleted. We recommend you to do this, as it will avoid that you look for data in categories that are empty.

- 6) Click on the Import button.
- 7) The data will be scanned and an overview is generated of all the new and (to be) replaced data. It is recommended to print or save this overview so that you have an overview of all changes in the database. Remember that any changes you made in the library will be lost when the data are replaced.

- 8) Click OK to start the import process. You will be asked to verify the replacement of each process. Click on the "Yes to All" button to accept all replacements (recommended, quickest).
If you click the "Skip processes of which above items match", you will have to verify each process that has been given a new category (this can be many processes depending on the imported libraries). Click on the Yes button for individual process verification.
- 9) After a final confirmation, the actual import will start. This can take several hours for large datasets such as ecoinvent. A message will appear once the import is successfully completed.
- 10) The imported library or libraries will now be visible in the project list shown in the Open project window. It is not automatically shown in your project. To have the data shown in your project, select the imported library under Libraries in the Goal and Scope section.
- 11) Make a backup of the updated database and repeat these steps to import data from other databases as described above.
- 12) To save hard disk space you may want to delete or back up the imported libraries once you are finished.

5 Appending substance names

You have now updated your existing libraries to the new SimaPro 6 substance nomenclature. However, the nomenclature as used in SimaPro 5 is still available in your database and is used in the data you created yourself. This situation will give confusing as:

- Your "old" impact assessment methods will not work with the updated and new libraries.
- Your new impact assessment methods will not work with processes you created yourself and that contain the old substance names.
- For many substances, you will have two substance names for each substance (e.g. CO and carbon monoxide) making the substance list unworkably long.

To avoid problems with future updates and data exchange, you must update the standard substance names that were used in SimaPro 5 to the new substance nomenclature. All changes (over 1500!) have been collected in a so called append file, that can be used to automatically change the substance names. We strongly urge you to follow the procedure below so that you avoid getting erroneous calculation results. Note that any substances that you have changed or added yourself are not changed.

In the procedure, you are asked to manually remove the substance methyl ether from a converted SimaPro 5.1 EDIP method. This step is needed to allow automatic appending to dimethyl ether, which has a different characterisation factor in the EDIP method. Ignoring this step will result in an error message, and the append procedure will be cancelled.

5.1 Procedure

- 1) Make a backup of your database if you have not already done this.
- 2) Open the converted SimaPro 5 database in which you have imported the SimaPro 6 libraries. (Converted) SimaPro 5 databases can be found by default under C:\Program Files\SimaPro5\Database.
- 3) Open the library "Methods" via Open project under File.
- 4) Go to the Methods section under Impact Assessment. Select the "EDIP/UMIP 96" method and click Edit.
- 5) Select the Characterisation tab and select the impact category "photochemical smog".
- 6) In the list of characterisation factors now shown, select the airborne emission "methyl ether", with a characterisation factor of 0.5 g/ g ethene.

- 7) Click the Delete button in the bottom of the window. After confirmation, the substance is removed. Now click the Save button to save your changes. A warning is given that "One or more weighting factors of the characterization are zero". You can accept this warning by clicking the Yes button. Finally, click the Close button to close the window. You are now ready to start the append procedure.
- 8) Go to the Substances section under General data.
- 9) Click on the Append button. A new window opens.
- 10) Click on the Open button. Select the append file with the name "Append5To602.xls".
If it is not automatically shown, you can find it in C:\Documents and Settings\All Users\Documents\SimaPro\Database
(under Windows XP the Documents directory is shown as "Shared documents")
Under Windows 98 and NT you can find the append file under
C:\Windows\Profiles\All Users\Documents\SimaPro\Database.
- 11) An overview is shown of all replacements that are to be made. If you have made changes in substances names in SimaPro 5.1, you can get the message 'Some lines are not read. Do you want to see the warnings?' Click on the Yes button and print the overview, because this list can help you to manually append these substances later on.
- 12) Click on the Append button. After confirmation SimaPro will start the replacement. This can take considerable time.
- 13) Once the replacement has been finished, make one last final backup of the database. We recommend you keep the intermediate backups for a limited time before deleting them.
- 14) You have now finished the complete update procedure. Remember that substances you have added yourself have not been updated yet to the new nomenclature. These substances are also not included in the updated impact assessment methods included in SimaPro 6.