



DATASMART LCI Package Update/Installation Manual 2023

Published October 2023, updated April 2024

Long Trail Sustainability (LTS) 830 Taft Road, Huntington, VT 05462 Email support@ltsexperts.com • Phone (802) 434-3326 • www.longtrailsustainability.com Please note that DATASMART is only supported in SimaPro version 9. This version of the DATASMART Installation Manual is good to use if you are running SimaPro version 9.6. Please use this with the "DATASMART2023_v2_SP_9.6.SPBackup" file. If you need to obtain this file, contact <u>support@ltsexperts.com</u>.

In order to update or install DATASMART, first download DATASMART from LTS's website using the credentials provided to you by LTS. Then restore the SimaPro Database Backup file. Next import the restored database into your database(s). Lastly append your database(s). Detailed instructions are provided below.

- The SimaPro database backup file that you downloaded from LTS's website can be found in the "Downloads" folder on your computer. Within the Downloads folder, it is in a folder called "DATASMART2023_v2_SP_9.6.zip". If you open up that folder, you will find the file called "DATASMART2023_v2_SP_9.6.SPBackup". Save this SimaPro database backup file in a location you can access from SimaPro, such as the Desktop.
- 2. Open SimaPro. You do not have to have a project open.
- 3. Click on File > Database management/ Restore.

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		Export		Arable land use, soy bean, Argenand	m2a			
	8	I <u>m</u> port SimaPro Database		Argon	ka	007440-37-1		
		Export SimaPro Database		Arsenic	ka	007440-38-2		
		Export to Matrix		Artificial fertilizer	kg			
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		1 C:\\June 2014\Professional		Baddeleyite, in ground	kg			
		2 C:\\SimaPro\EIandUSEI224		Barite	kg	013462-86-7		
		3 C:\\Database\Other\US_EI_2_2_3		Barium	kg	007440-39-3		
		4 C:\\Documents\SimaPro\Training		Basalt	kg			
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4. Click "Yes."



5. Browse to the backup file and click "Open."

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6. Choose where you want the database to be saved and click "Save." If you have a multi-user SimaPro license, it is recommended to save this on the Local Server, rather than NexusDB (the database server), as the whole update will go much faster. Please see Box 1 if you have a professional multi-user license. Please see Box 3 if you have an educational Classroom license.

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's Save databa	se –	-		×
Server Location	local server C:\Users\Public\Documents\SimaPro\Database]	<u>S</u> ave <u>C</u> anc	e el
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Database	DATASMART2023			

Box 1. Importing DATASMART in a multi-user environment (not applicable for SimaPro Classroom)

In a multi-user environment, updating a database directly on the database server is very slow due to additional network traffic. If you have one of the professional multi-user licenses, you need to do the database update locally on a (fast) PC with the SimaPro client installed. This is much quicker.

To do that, log in as Manager and check under Tools > User Management that no users are logged into the SimaPro database. If so, you can close SimaPro. Locate the database that you want to update on the server's hard drive (see Box 2 for default locations) and copy the database (a set of 77 numbered *.NX1 files) to your local hard drive. In the "Open SimaPro Database" window on Step 8, choose "Local server" and browse to the directory you copied the database to. You may be prompted to enter a password when opening the database so please enter the Manager password to proceed. Continue with the update instructions. After finishing the DATASMART install/update, copy your updated database back to its original location on the server.

Box 2. Default directories

SimaPro installs updates in the default database directory if no other location is chosen. The default directory for Windows 10, Windows Server 2012, Windows Server 2016, Windows Server 2019, and Windows 2022 is:

C:\Users\Public\Documents\SimaPro\Database\

If you have a multi-user version and cannot find the database in one of the default directories, open the SimaPro database server. In the list of aliases, you can see the location(s) of the database directories that are being used. If you still cannot see the database(s) you expect, please ask your IT department to check if an alias for the location is defined in the SimaPro database server.

Box 3. Updating SimaPro Classroom

Owners of an educational Classroom license do not have "local server" database access but should request a temporary single-user license via <u>support@ltsexperts.com</u> to do the update locally. We will include further instructions on how to update.

7. The database will be restored. When asked if you would like to open the database, click "No."

Confirm	*
?	Restore is ready (SimaPro database: "C:\Users\shell\Documents\DATASMART\DATASMART2020"). Do you want to open this database?
	<u>Y</u> es <u>N</u> o

8. Click File > Open SimaPro Database. Open the database that you would like this data imported into. For many users this will be the "Professional" database. Please see Box 1 (above) if you have a professional multi-user license.

S	
Eile Tools Help	
New SimaPro Database	
Open SimaPro Database	
Database management	
1 C:\\June 2014\Professional	
2 C:\\SimaPro\Database\Professional	
Exit Alt+F4	
EarthShirt 1	8.0.3.14 Developer

NOTE: You do not have to have a project open.

9. Click File > Import SimaPro Database.

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~		-	Anhydrite		kg	014798-04-			
¢\$	Print Ctrl+P		Animal matter		kg				
	Print Setup		Antimony		kg	007440-36-			
	Import		Arable land use, soy bean, Argentina		m2a				
	-		Arable land use, soy bean, Brazil		m2a				
_	Export		Argon		kg	007440-37-			
R	Import SimaPro Database		Arsenic		kg	007440-38-			
_	Export SimaPro Database	1	Artificial fertilizer		kg				
			Auxiliary materials		kg				
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	2 C:\\SimaPro\Database\Professional								•
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10. Click "Yes."

Info	ormatio	on 📃
	i	Importing data may replace existing data and change your results. As the import cannot be undone, a backup of your current database will be made. Continue?
		<u>Y</u> es <u>N</u> o

11. Click "Browse" in the "Import SimaPro Database" window.

s Import	t SimaPro Data	abase						\times
Location	and name	of import database					Browse	2
Pro	ojects	General objects						
Projects					Libraries			
Select	Name		/ Protect		Select	Name	A Prot	teci
Only i Delet	include libra	ary-items used in selected pro ocess categories	ojects		_			
Select A	All Select	from CSV		Im	port		Close	,

12. Browse to where you restored the database (from step 6). Select and click "Open." When asked for a password, please enter: **Itdepends26**

NOTE: Please copy and paste password. The first letter is a capital <u>I</u> like <u>Ig</u>loo.

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13. In the Import SimaPro Database Window:

a. On the "Projects" tab, check the box next to US-EI 2.2.

's Import Simi	aPro Datab	ase							×
Location and C:\Users\Put	d name c blic\Doci	of import database uments\SimaPro\Data	base\DATAS	MART2023				Br	owse
Project	s Import SimaPro Database ocation and name of import database C:\Users\Public\Documents\SimaPro\Database\DATASMART2023 Projects column								
's Import SimaPro Database Location and name of import database C:\Users\Public\Documents\SimaPro\Database\DATASMART2023 Projects Select Name / Protect			Libraries						
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Projects	General objects				
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	Literature references	153	0	۲	
	Substances	3447	0	۲	
	Unit conversions	0	0	۲	
	Units	205	0	۲	
	Quantities	16	0	۲	
	Images	83	0	۲	
	Database parameters	;	V		

b. Then go to the "General objects" tab and check "database parameters."

c. Then click "Import."

NOTE: Some users may receive a duplicate parameters notice. Choose skip and click "OK."

S Du	S Duplicate Parameters											
On	One or more project- and/or database parameters in the import data have the same name as in the current database. Please verify these duplicate parameters and check Skip or Replace for each parameter. If you do not want to replace or skip one or more of these parameters cancel the import operation and change the											
No	Parameter 🛆	Defined in	Туре	Value in current database	Value in import database	Skip	Re ^					
1	Air	US-EI 2.2	Project	1.2	1.2	۲	(
2	AllocateAlgaeO	US-EI 2.2	Project	42 (Lognormal, 1.16)	42 (Lognormal, 1.16)	۲	(
3	AllocateFeed	US-EI 2.2	Project	30 (Lognormal, 1.16)	30 (Lognormal, 1.16)	۲	(
4	AllocateHydroc	US-EI 2.2	Project	28 (Lognormal, 1.16)	28 (Lognormal, 1.16)	۲	(
5	Assmd_data	US-EI 2.2	Project	1 (Lognormal, 1.89)	1 (Lognormal, 1.89)	۲	(
6	Assmd_Trp_da	US-EI 2.2	Project	1 (Lognormal, 2.32)	1 (Lognormal, 2.32)	۲	(
7	AvoidedBurden	US-EI 2.2	Project	0	0	۲	(
8	AvoidFeed	US-EI 2.2	Project	0 (Lognormal, 1.6)	0 (Lognormal, 1.6)	۲	(
9	AvoidHydrocarl	US-EI 2.2	Project	0 (Lognormal, 1.16)	0 (Lognormal, 1.16)	•	(
10	BeltPressEnerg	US-EI 2.2	Project	2 (Lognormal, 1.6)	2 (Lognormal, 1.6)	•	(
11	BTUtoMJ	Professional	Database	0.001055056	0.001055056	•	(
12	Calc_enterIdle	US-EI 2.2	Project	0	0	•	(
13	CH4inNG	US-EI 2.2	Project	0.783 (Lognormal, 1.32)	0.783 (Lognormal, 1.32)	•	(
14	CharLandfilled	US-EI 2.2	Project	0	0	•	(
15	CharOutput	US-EI 2.2	Project	0.07	0.07	•	(
16	Chem_PlantLife	US-EI 2.2	Project	50 (Lognormal, 3.05)	50 (Lognormal, 3.05)	•	۰. ب					
•						i	•					
<u>P</u>	rint <u>S</u> tore	Сору			<u></u> K	Car	ncel					

NOTE: Some users may receive an import error stating that the factors do not match for the unit CHF2005. If this occurs, click "Close," go to Units under general data, find CHF2005 and change from 1.02 to 1. Then, start import again (step 9).

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14. SimaPro will scan the data and produce a summary. Click "OK."

S Import SimaPro Database	e Data							×
Overview	Project	s Replaced processes	New processes	Unchanged processes	Methods	Project Data	General Data	
Import database Current database	C:\Users\Pu C:\Users\Pu	blic\Documents\SimaPro\Datab blic\Documents\SimaPro\Datab	ase\DATASMART20 ase\Professional	023				
Туре	Amount	Comment						
Processes Processes Methods Methods System descriptions Document links Categories Literature references Substances	1 5964 111 9 2 6 3 1 144 21174	will be eplaced will be replaced will be replaced will be added will be replaced will be replaced will be replaced will be replaced will be replaced						
Print Store	<u>С</u> ору						<u>O</u> K	Cancel

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15. SimaPro will then backup the existing database. Click "OK."



- 16. Select the name location for the backup and click "save."
- 17. After the backup, the import will start automatically.

Status		X
	Import SimaPro database, importing data	
	10%	
Copying objects		19,048 Cancel

18. Click "OK." You are almost there, but not done yet!

Information						
1	The data of the import-database is successfully imported.					
	ОК					

19. Click on 'Substances' under the 'General Data' header on the LCA Explorer window and "Append" (right sidebar).

S C:\Users\Shelly\Documents\Databa	se - Testing\Professional_SS_201	9_Testing	- 0 ×
<u>File Edit Calculate Tools Wind</u>	ow Help		
		▶ ≻ 「□ 「□ ¬¬ ¬¬ ⁴** ₩2 ♣ ♣ 🖳 Ш △ 凾 🗐 🗐	
LCA Explorer			
Wizards	⊞-Substances	Substance / Default unit CAS numbe	New
Wizards			<u>Li</u> ew
Product Systems			Edit
Develop wizards			Сору
Wizard variables			Delete
Goal and scope			Append
Description			LINE INV
Libraries			
Inventory			
Processes			
Product stages			
System descriptions			
Waste types			
Parameters			
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Interpretation			
Document Links		1	
General data			^
Literature of searces			
Substances			~
Unicection		Filter on Clear 32602	
Units	40847 items	1 item selected	
LTS 1		9.0.0.35 Developer	

20. Click "Load."

S Append substances							
Main-co 🗠	Current substance	Unit	Main-com	To be replaced wit	Add		
					Remove		
					Clear		
					Load		
					Store		
					Append		
					Close		
•				4			
0 substan	ces						

- 21. Browse to your latest append file and click "Open." This file is automatically downloaded when you install or update your SimaPro database and is located in the same directory as the database files (typically C:\Users\Public\Documents\SimaPro\Database).
 - a. For SimaPro 9.6.0 >> AppendSubstances960.xls

22. Click "OK" to the Information on the number of lines selected to be processed. And click "Append" again.



Or alternatively, if you get the following warning (below), click "OK" and skip steps 23 – 25. This just means that nothing was updated in the substance list. In this situation, nothing needed to be appended.

Warning	×
	The selected append file doesn't contain any data that can be processed for this database.
	ОК

23. Click "Continue" to Confirmation. Contact LTS Support at <u>support@ltsexperts.com</u> if you have any errors listed. The warnings can be ignored.

Co	onfirmation X	
	First all references to the listed substances will be collected and all impact assessment methods will be checked for characterization factors conflicts. Appending substances cannot be undone. Continue?	
	Cancel	

24. You may run into the following Confirmation message as shown below. If you see this, click "Details", then "Remove Conflicts", then "Continue".



25. You have the option to create an optional backup before executing the append. Click "Yes" and select the directory and name of the backup file and click "save."

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26. Click "OK" and enjoy your new and updated data!



27. You can check that you have successfully installed or updated the DATASMART library by clicking on 'File' and 'Open project'. Click on "US-EI 2.2" as this is the DATASMART library. Check that the description box below says "Version 2023.1. Released October 2023."

* Professional							- 0 ×
<u>File Edit Calculate Tools Wind</u>	ow Help						
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LCA Explorer							
Wizards	. E Substances	Substance	/ Default unit	CAS number			
Wizards							New
Product Systems					_		Edit
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Wizard variables	Name	otorint - economic - sustem	library project	Protection	New		Delete
Goal and scone	Agri-fo	potprint - economic - unit	Library project		Open		Append
Description	Ecoinve	ent 3 - allocation, cut-off by classification - system	Library project		Conv		Append
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Inventory	EU & D	DK Input Output Database	Library project		Delete		
Processes	Industr	y data 2.0	Library project				
Droduct stange	Introdu	iction to SimaPro	Project				
Sustam descriptions	Tutoria	as I	Project				
Waste types	US-EL2	2.2	Library project				
Parameters	USLCI		Library project				
Parameters							
Impact assessment							
Calculation seture							
Calculation setups							
Interpretation	Version	2023.1. Released October 2023.			-		
Interpretation							
Document Links	DATAS	MART LCI Package is a dataset for North American S	imaPro customers provided by	y Long Trail			A
General data	based	on a combination of US LCI v.1.60 and Ecoinvent v.2.	2 data, modified specifically to	o be representative			
Literature references	of U.S.	operations. In an effort to continually provide more	data, DATASMART has expand	led to a larger			
Substances	datase	t, covering more regions and industries, containing o	data developed by LTS and dat	ta submitted to LTS	Close	Clear L acre	w.
Unit conversions	1445E itoms	1 item calested				Cie <u>d</u> r 7673	
I Units	14405 items	Them selected					
LTS		Manager		9.6.0.1 D	eveloper Multi us	er	

DATASMART is implemented in SimaPro as the library "US-EI 2.2." When you open up a 'project' or create a new project in SimaPro, go to 'Libraries' under the 'Goal and scope' heading on the left side of the screen. Check (select) the US-EI 2.2 library to use the data in your projects and to utilize the LTS Method.

- 28. Once complete, you can repeat steps 8 27 for all other databases you wish to have this new and updated DATASMART library in. If you only have one database, then you are finished!
- 29. If you are finished importing DATASMART2023 into your database(s), then you can use your computer's Windows Explorer to browse to the appropriate folder that you chose in step 6 (typically C:\Users\Public\Documents\SimaPro\Database) and delete the 77 DATASMART2023 database files (named DATASMART202300.nx1 DATASMART202376.nx1). This is to avoid confusion later when opening up databases in SimaPro and to save space on your computer.