Toolbox v.4.6 - User manual

QSAR TOOLBOX

The OECD QSAR Toolbox for Grouping Chemicals into Categories

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

Document history

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Version 1.1	August 2017: Updated to reflect changes in version 4.1	
Version 1.2	January 2018: Updated to reflect changes in version 4.2	
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If you have questions or comments that relate to this document, please send them to:

<u>ehscont@oecd.org</u> or visit the QSAR Toolbox discussion forum at:

https://community.oecd.org/community/toolbox_forum

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

Contents

Docun	nent history	2
Conte	nts	3
l. Ir	ntroduction & Requirements for QSAR Toolbox installation	4
1.	Introduction	4
2.	Requirements	4
II. C	QSAR Toolbox installation	4
1.	Step 1. PostgreSQL	6
2.	Step 2. Microsoft .NET 6.0	10
3.	Step 3. Database	11
4.	Step 4. QSAR Toolbox	15
III.	How to transfer custom items from previous Toolbox versions into the new one?	20
1.	Transfer custom items from QSAR Toolbox v.3.x to QSAR Toolbox v.4.6	20
2.	Transfer custom items from QSAR Toolbox v.4.x to QSAR Toolbox v.4.6	23
IV.	How to remove the previous Toolbox version(s)?	24
1.	Removing of QSAR Toolbox v.3.x	24
2.	Removing of QSAR Toolbox v.4.x	24
V. 0	DASIS Metapath	26
VI.	Known issues	26

Toolbox 4.6 Installation Manual

I. Introduction & Requirements for QSAR Toolbox installation

1. Introduction

This document provides a step by step description of the installation procedure of the QSAR Toolbox (version 4.6) set-up kit on a local PC operating Microsoft[®] Windows[®].

The new QSAR Toolbox 4.x is not a continuation of the Toolbox 3.4 codebase. It is a new system, designed from the bottom up and rewritten using new underlying technologies and database management sub-system. This in turn means a completely different deployment experience. QSAR Toolbox 4.6 is a major update to Toolbox and can be installed alongside previous versions of 4.x.

Version 4.6 is migrated to .NET 6.0 (as opposed to Toolbox 4.5 using .NET 5.0). This means that it must be installed regardless of existing Toolbox.

PostgreSQL dependency has also been reworked. Now the user is provided with the optionality to not install or care for the existence of PostgreSQL. They can deploy the QSAR Toolbox Database in a portable mode, whereby they'd need only specify an empty, writable, folder on their local hard drive. For the advanced use-cases a database deployment on an existing PostgreSQL 13 install is still available.

2. Requirements

It is recommended to use an up-to-date PC with **64 bit operating system** (required) and a processor running at 2.4GHz or faster, 17 Gigabyte of hard disc space for storage and 6 Gigabyte of RAM to operate. In order to run this installation you will need administrator rights on your local PC. However, once installed, normal user rights will be sufficient for running the application.

The following components will be installed on your PC if they are not already available:

• Microsoft .NET 6.0

II. QSAR Toolbox installation

Before starting to install the Toolbox, make sure that all files are extracted from the downloaded package. Navigate to the CD on which you have received the application or to the folder into which

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

you have downloaded the package. Right click over the package and select to <u>extract the content</u> to a new directory.

Do not start to install Toolbox directly from the downloaded package.

Note: The installation package was compressed using the WinZip software, version 17. Other applications might not be able do decompress the package as different applications may implement the ZIP format differently. A free alternative that was tested with the installer package is the **7-Zip** application. **7-Zip** can be downloaded from <u>http://www.7-zip.org/</u>.

QSAR Toolbox v.4.6 is a major update to Toolbox and can be installed alongside previous versions of 4.x.

If you have not installed any of the previous versions of Toolbox v.4. (i.e. versions 4.0, 4.1, 4.2, 4.3 and/or 4.4, 4.5), you need to install the three basic components of QSAR Toolbox

- 1) .NET 6.0
- 2) Database
- 3) QSAR Toolbox application.

If you have previously installed PostgreSQL 13(optional) and .NET6.0, skip Step 1 and 2 and start directly from <u>Step 3. Database</u>.

Double click on the "**StartInstall.exe**" file (Figure 1) (located in the directory where the extracted content from the package is) and follow the steps described below.

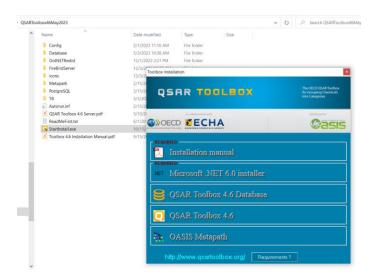


Figure 1. Installation Startup screen

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

1. Step 1. PostgreSQL

Note: PostgreSQL installation is no longer required. This section is preserved for backward visibility and as pertaining to the advanced database deployment. The PostgreSQL installer is still distributed with the QSAR Toolbox installation package, however it is not displayed on the installation bootstrap window.

Note: Data folder should be on a drive that has at least **17 GB** of free space

	_		_				
ame	Date modified	Туре	Size				
📕 Config	2/1/2023 11:10 AM	File folder					
📕 Database	5/3/2023 10:38 AM	File folder					
DotNETRedist	12/1/2022 2:21 PM	File folder					
FireBirdServer	12/3/2021 11:33 AM	File folder					
📕 icons	12/3/2021 11:33 AM	File folder					
📕 Metapath	2/15/2023 8:11 AM	File folder					
PostgreSQL	3/15/2023 2:47 PM	File folder					
📕 ТВ	5/3/2023 9:44 AM	File folder					
Autorun.inf	2/15/2010 2:31 PM	Setup Information	1 KB				
SAR Toolbox 4.6 Server.pdf	5/10/2020 9:27 AM	Foxit PDF Reader	367 KB				
ReadMeFirst.txt	6/1/2016 8:45 AM	Text Document	1 KB				
😼 StartInstall.exe	10/11/2022 4:24 PM	Application	2,161 KB				
SToolbox 4.6 Installation Manual.pdf	9/15/2021 11:31 AM	Foxit PDF Reader	1,976 KB				
	QSARToolbox46May	2023 > PostgreSQL					
	^ Name	^	Da	te modified	Туре	Size	
	🐝 posta	gresgl-13.10-1-windows-x64	.exe 3/	15/2023 2:31 PM	Application	307.484 KB	

Step 1.1. Start postgresql-13.10-1-windows-x64.exe (Figure 2)

Figure 2. Start installation of PostgreSQL

Step 1.2. You will be asked to select where the PostgreSQL should be installed and data stored. Leave the default setting. In the **Select components** stage you can uncheck the "Stack builder" component, as it is not needed for Toolbox (Figure 3).

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

🎳 Setup	- • ×		
Installation Directory	₹ Setup	×	
Please specify the directory where PostgreSQL will be installed. Installation Directory C:\Program Files\PostgreSQL\13	Select Components	N	
	Select the components you want to install; clear the cor you are ready to continue.	mponents you do not want to install. Click Next when Click on a component to get a detailed description	
	 	📲 Setup —	×
		Data Directory	
VMware InstallBuilder		Please select a directory under which to store your data. Data Directory ::\Program Files\PostgreSQL\13\data	
	VMware InstallBuilder		
		VMware InstallBuilder <	Cancel

Figure 3. Selection of folders where the PostgreSQL should be installed and data stored

Note: Make sure the Data folder is on a drive that has at least **17 GB** of free space.

Toolbox 4.6 Installation Manual

Step 1.3. Next, you will be asked to enter the password and port (Figure 4).

Password: **postgres** (recommended)

Port: 5433 (by default)

🐮 Setup			
Password	1		
Please provide a password for the database superuser (postgres). Password			
Retype password	🛃 Setup		
	Port	1	
	Please select the port number the server should listen on. Port [5432]		
		Important: The same port m	
InstallBuilder		defined during the deployme	ent of
		Toolbox database (see 3.2)	and
		installation of Toolbox (see	4.6)
	InstallBuilder	< Back Next > Cancel	

Figure 4. Specifying password and port for the PostgreSQL

Note: Whatever you decide to put as a password and port, make sure you <u>write it down or memorize</u> it as it will be needed later in the installation procedure and generally throughout the PostgreSQL installation's lifetime.

Toolbox 4.6 Installation Manual

Step 1.4. You can simply click Next on Advanced Options and Pre Installation Summary, to click **Finish** (Figure 5)

Setup	- 🗆 X	
Advanced Options		
	🗃 Setup —	
Select the locale to be used by the new database cluster. Locale [Default locale]	Pre Installation Summary	-
	The following settings will be used for the installation::	
	Installation Directory: C: \Program Files\PostgreSQL\13 Server Installation Directory: C: \Program Files\PostgreSQL\13 Data Directory: C: \Program Files\PostgreSQL\13\data Database Port: 5433 Database Superuser: postgres Operating System Account: NT AUTHORITY\WetworkService Database Service: postgresql-x64-13 Command Line Tools Installation Directory: C: \Program Files\PostgreSQL\13\pgAdmin 4	^
VMware InstallBuilder Kennel Kennel Kenne		
		~
	VMware InstallBuilder Kext >	Cancel

Figure 5. Advanced Options and Pre Installation Summary

Now PostgreSQL is installed and you can continue with the installation of the Toolbox database.

Toolbox 4.6 Installation Manual

2. Step 2. Microsoft .NET 6.0

Toolbox installation	×
QSAR TOOLBOX	The OECD QSAR Toolbox for Grouping Chemicals into Categories
REQUIRED	
NET Microsoft .NET 6.0 installer	
SAR Toolbox 4.6 Database	
OSAR Toolbox 4.6	
🔁 OASIS Metapath	
http://www.qsartoolbox.org/ Requirements	?

Figure 6. Install Microsoft .NET 6.0

Click on **Microsoft** .NET 6.0 installer and follow the onscreen instructions.

QSAR TOOLBOX OS

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

3. Step 3. Database

Step 3.1. Select QSAR Toolbox 4.6 Database (Figure 7)

Toolbox installation	×
QSAR TOOLBOX	The OECD QSAR Toolbox for Grouping Chemicals into Categories
REQUIRED Installation manual	
NET Microsoft .NET 6.0 installer	
SAR Toolbox 4.6 Database	
🢽 QSAR Toolbox 4.6	
🚯 OASIS Metapath	
http://www.qsartoolbox.org/ Requirements?	

Figure 7. Start installation of the QSAR Toolbox database

Toolbox 4.6 Installation Manual

Step 3.2. There are two modes for Database deployment.

3.2.1. Portable (simple) deployment

You will be asked to specify an empty, writable folder on the local hard drive.

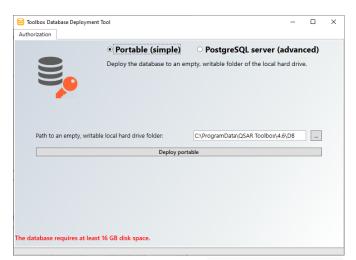


Figure 8.1 Portable (simple) database deployment

Note: The database is never removed automatically. If you want to remove the database, you need to manually delete the folder (QSAR Toolbox Server would need to be shut down)

3.2.2. PostgreSQL Server (advanced) deployment

Note: A prerequisite for the database deployment step is that there is a functional PostgreSQL server listening. You could check that by going to Services tab of your Task manager (you can bring it up by holding Ctrl+Shift+Esc buttons). Look for a service with postgresql in its name (e.g. "postgresql"), it should have "Running" in the Status column.

You will be asked (Figure 8.2) to provide the PostgreSQL superuser password and listen port. (see 1.3):

- For password type the same password defined during PostgreSQL installation (see 1.3)

Toolbox 4.6 Installation Manual

- For the port type **5433** (by default) and click the *Deploy* button. Be extra careful to enter the port you specified at step 1.3.

号 Toolbox Database Deploymen	t Tool		-		×	
Authorization						
	 Portable (simple) 	PostgreSQL serve	r (advano	ced)		
	Deploy the database to an exis	ting installation of the Postgr	eSQL server	r.		Important: The port must be the same as defined during the PostgreSQL installation (see 1.3)
PostgreSQL port:		5433	-		1	
PostgreSQL password: Delete existing databas	e		Deploy	•		
e database requires at leas	t 16 GB disk space.					

Figure 8.2. PostgreSQL Server (advanced) database deployment

Note: If you have changed the password and you do not remember it, please follow the steps you will find at the following link in order to reset your PostgreSQL password:

https://qsartoolbox.org/content/documents/ResettingPostgreSQLPassword.pdf

Note: The database is never removed automatically. Since removing a database from an existing database cluster can be an involved process a "**Delete existing database**" button is provided that will remove the database from the server identified by the port and password.

Step 3.3. On the next confirmation message click on "Yes" (Figure 9). This warning message is related only to the same version of Toolbox. Deployment of the Toolbox v.4.6 database <u>will not</u> affect the previous databases.

Confirmation	\times
This will deploy the QSAR Toolbox databases. Are you sure you want to continue? WARNING: this script will remove existing Toolbox databases prior to redeployment.	
Yes No	

Figure 9. Confirmation message for starting database deployment

Toolbox 4.6 Installation Manual

The full database deployment takes around **10-15** min depending on computer configuration and it should not be interrupted.

Continue with the last step of the Toolbox installation.

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

4. Step 4. QSAR Toolbox

Step 4.1. Select *QSAR Toolbox 4.6* (Figure 10)

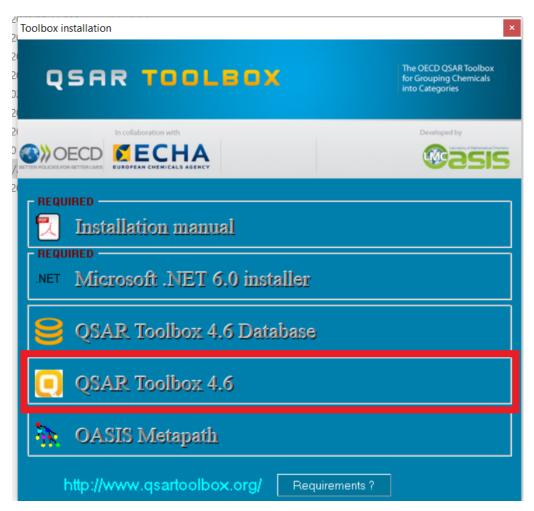


Figure 10. Start installation of the Toolbox application

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

Step 4.2. Start the installation of Toolbox by clicking Next (Figure 11)

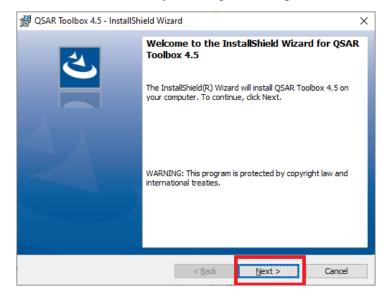


Figure 11. InstallShield Wizard screen

Step 4.3. Accept the terms of the license agreement in order to continue with the Toolbox installation (Figure 12)



Figure 12. License agreement

Toolbox 4.6 Installation Manual

Step 4.4. You will be asked for a destination folder of the Toolbox. Click **Next** to install the Toolbox to the default directory (Figure 13)

👷 QSAR To	GSAR Toolbox 4.6 - InstallShield Wizard X						
	Destination Folder Click Next to install to this folder, or click Change to install to a different folder.						
D	Install QSAR Toolbox 4.6 to: C:\Program Files\QSAR Toolb		4.6\	<u>C</u> hange			
InstallShield -		< <u>B</u> ack	Next >	Cancel			

Figure 13. Selection of Toolbox destination folder

Step 4.5. Then you will be prompted to select the deployment mode for the installation suite. There are three deployment modes for available for QSAR Toolbox 4 - Standalone, Client only or Multi-user server.

- **Standalone** This deployment mode should be used on a single computer. This deployment mode allows for creation of new profiling schemes, importing of databases and creation of new QSARs. This is the recommended deployment mode for users who will be developing profiling schemes, QSARs, databases.
- **QSAR Toolbox Desktop Client Only** This mode will install only the Toolbox client. It will have to be connected to a separate deployment of a QSAR Toolbox multi-user Server.
- **QSAR Toolbox multi-user Server** This deployment mode is similar to the standalone deployment, in that it installs both Server and Client layers of the QSAR Toolbox, however it configures the Server in multi-user mode. When connected to a multi-user server the user will have restrictions on certain features, such as creation of new profiles and importing of databases.

Note: In order to open a port for incoming connections the multi-user server needs to be started with administrative permissions (or equivalent).

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

Select the Standalone deployment mode used for a single computer and click Next (Figure 14)

🛃 QSAR Toolbox 4.6 - InstallShield Wizard	×
Deployment mode	A.
Select deployment mode	\mathbf{O}
● Standalone	
Use this when you plan on using the QSAR Toolbox on	a single computer.
O QSAR Toolbox Desktop Client Only	
Use this when you will only be logging to another comp server is installed.	outer where QSAR Toolbox
○ QSAR Toolbox multi-user Server	
This will deploy the server configured for multi-user act included as well)	cess (desktop client will be
InstallShield	
< <u>B</u> ack	Next > Cancel

Figure 14. Selection of deployment mode of Toolbox

Step 4.6. Next you will be prompted to enter the connection parameters for the Client and Server applications. This step will be skipped for the **Standalone** deployment mode, it will be displayed only for **QSAR Toolbox Desktop Client only** or **QSAR Toolbox multi-user Server** modes.

🕼 QSAR Toolbox 4.6 - InstallShield Wizard 🛛 🗙	🛃 QSAR Toolbox 4.6 - InstallShield Wizard 🛛 🗙
Connection parameters Enter port and host	Connection parameters Enter port and host
Client connect host: localhost Client connect port: 8803 Server listening port: 8803	Client connect host: localhost Client connect port: 3803 Server listening port: 3803
QSAR Toolbox Desktop Client only	QSAR Toolbox multi-user Server
InstallShield	InstallShield < <u>B</u> ack Cancel

Figure 15. Entering connection parameters

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

Meaning of the parameters:

- **Client connect host**: This specifies the computer that the client will connect to.
- **Client connect port**: This is the port the client will use to connect to the Server. It should match the **listening port** that the Server was configured to listen to.
- Server listening port: This is the port the QSAR Toolbox Server will listen on (and Toolbox Client will try to contact on). Server listening port has a companion port, SessionHealthMonitorPort, which can be configured post installation, see the Note bellow)

Step 4.7. Finalize the Toolbox application install by click on "Install" and then "Finish" (Figure 16)

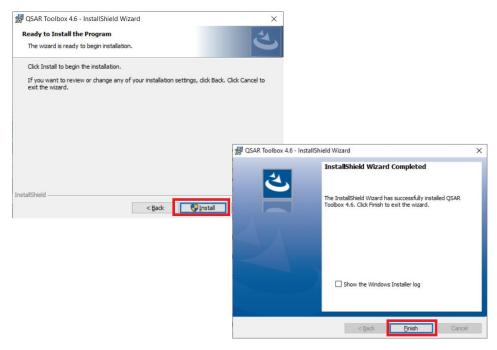


Figure 16. Finalizing of the Toolbox Application installation

Now all needed components for the proper work of Toolbox are installed and you can run the system.

Toolbox 4.6 Installation Manual

Note: If the QSAR Toolbox Client is configured to connect to a local server it will start QSAR Toolbox Server, if it is not already started.

Note: The QSAR Toolbox also benefits from a service channel that can be configured in the config files of the Client and Server. It is set to port **8804** by default.

To change it you'd need to search for the **SessionHealthMonitorPort** item and change the value to whatever you'd like. Here is what the configuration looks like: <*add key="SessionHealthMonitorPort" value="8804"></add>*

Here are the names of the files where the port needs to be configured: [InstallationFolder]\Toolbox Client\bin\Toolbox.Desktop.Client.dll.config [InstallationFolder]\Toolbox Server\Bin\ToolboxServerApp.dll.config

III. How to transfer custom items from previous Toolbox versions into the new one?

1. Transfer custom items from QSAR Toolbox v.3.x to QSAR Toolbox v.4.6

Two tools allowing to transfer custom items (profilers and databases) from QSAR Toolbox v. 3.x to QSAR Toolbox v.4.6 are available.

a. Transfer custom profilers

Package with a *Scheme Migrator App* (i.e. the tool allowing transferring of custom profiling schemes) could be downloaded from the following link:

http://toolbox.oasis-lmc.org/downloads/tools/SchemeMigratorApp.zip

After extracting the content of the package, the *SchemeMigratorApp.exe* file should be manually placed in the COM34 folder created by the QSAR Toolbox 3.4 installation.

The default path to the COM34 folder is:

%PROGRAMFILES(X86)%\OASIS-LMC\COM34

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

T 🚺 «	↑ 🔤 « Local Disk (C:) > Program Files (x86) > OASIS-LMC > COM34 🗸 🗸 Search COM34				01/154
ive	^ Nam	e	Date modified	Туре	Size
_	C	Jata	12-Jul-16 4:14 PM	File folder	
-	Š 🔿	ase.sys	17-Oct-11 5:19 PM	System file	1 KE
bjects	🚳 K	owdll32.dll	29-Sep-11 3:10 PM	Application extens	296 KE
op	S 1	binchi.dll	29-Sep-11 3:11 PM	Application extens	708 KE
ments	S L	MCClasses34.dll	05-Jul-16 12:07 PM	Application extens	54,904 KE
nloads	🖉 L	MCClasses34	12-Jul-16 4:37 PM	Configuration sett	1 KE
c	🥥 s	chemeMigratorApp	07-Aug-17 3:52 PM	Application	71,395 KE
res	т 🔊	BObjLibrary34.dll	16-Jun-16 11:42 AM	Application extens	10,841 KE
	Т 📋	BServerV34.tlb	02-Jun-16 3:17 PM	TLB File	16 KE
s	S V	Vatfrdll.dll	29-Sep-11 3:11 PM	Application extens	276 KE
Disk (C:)	□ v	Vatfrdll.lib	29-Sen-11 3:12 PM	LIB File	2 KB

(e.g. C:\Program Files (x86)\OASISLMC\COM34) (Figure 17).

Figure 17. *Scheme Migrator App* executable in the default directory of the COM34 folder (QSAR Toolbox v.3.4)

Start the program by running the SchemeMigratorApp.exe file. Multiple Toolbox 3.x schemes can be loaded with the "Load schemes" button (1) (Figure 18). Sequential loading of schemes adds them to the list. The list of loaded schemes can be cleared by using the "Clear list" button (2). Once the scheme(s) have been loaded, they can be converted by clicking the "Convert!" button (3).

Scheme Migrator	1	-		×
Schemes				_
C:\Users\Darina Yordanova\Documents\QSAR Toolbox\Ver 3.4\UserDir\Custom_profiler_alkylphenol-precursors	2	3	Load sch Clear Conve	list
Status				
Added file C: \Users\Darina Yordanova\Documents\QSAR Toolbox\Ver 3.4\UserDir\Custom_profiler_alky phenol-p	precurso	rs_TB34	.cfg	

Figure 18. Scheme Migrator App screen

The conversion process may take from seconds to several minutes depending on the count, size and complexity of the input schemes, as well as on the computer hardware. Once he conversion process has been completed, a status log for each scheme is displayed in the Status pane informing whether the operation has succeeded.

Toolbox 4.6 Installation Manual

In case of successful conversion, a new file (.plugin.config) will be created for each converted scheme. In order to be able to work with the converted schemes in QSAR Toolbox 4.6, they need to be placed in the CONFIG folder. Its default path is:

C:\Program Files\Common Files\QSAR Toolbox 4.6\Config\Addins\LMC.Toolbox.Server.Profiling

More details about the *Scheme Migrator App* could be found in the user manual included in the downloaded package.

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

2. Transfer custom items from QSAR Toolbox v.4.x to QSAR Toolbox v.4.6

a. Transfer custom profilers

Currently there is no tool allowing automatically transferring of profilers from of Toolbox v.4.x (i.e. Toolbox versions 4.0, 4.1, 4.2, 4.3, 4.4 and 4.5) to Toolbox v.4.6.

The users have to copy manually their custom profilers from the corresponding directory and to paste them into the profilers` directory in the Toolbox v.4.6.

Default directory of the Toolbox v.4.3 profilers: <u>C:\Program Files (x86)\Common Files\QSAR Toolbox 4.3\Config\Profilers</u>

Default directory of the Toolbox v.4.6 profilers: <u>C:\Program Files\Common Files\QSAR Toolbox 4.6\Config\Addins\LMC.Toolbox.Server.Profiling</u>

Toolbox 4.6 Installation Manual

IV. How to remove the previous Toolbox version(s)?

1. Removing of QSAR Toolbox v.3.x

Uninstall the available 3.x versions of Toolbox directly from the Control panel of your computer:

Control Panel\All Control Panel Items\Programs and Features

After the uninstallation of QSAR Toolbox, the database **will not** be removed. It should be deleted by hand.

2. Removing of QSAR Toolbox v.4.x

The complete removal of QSAR Toolbox v.4.x happens in two steps: 1) uninstallation of the program and 2) deletion of the database.

a. <u>Uninstallation of QSAR Toolbox</u>

Uninstall the available 4.x versions of Toolbox directly from the Control panel of your computer:

Control Panel\All Control Panel Items\Programs and Features

Uninstallation of QSAR Toolbox removes only the Toolbox application. The database should be further removed.

b. <u>Removing of the Toolbox database</u>

Preserving of the old Toolbox databases consume a lot of memory. In order to free some space on your computer, you could delete the old TB v.4.x databases (i.e. the databases of Toolbox v.4.0, v.4.1, v.4.2 and/or v.4.3) by using of the *Database removal tool*. The tool could be downloaded from the link below:

https://qsartoolbox.org/downloads/tools/ToolboxDatabaseManagement.zip

Once the tool is downloaded, extract the content of the package and double click the *ToolboxDatabaseManagement* executable (Figure 22).

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

^	Name	Date modified	Туре	Size
	🚳 Npgsql.dll	03-Dec-17 5:56 PM	Application extens	647 KB
*	😬 Npgsql	03-Dec-17 5:56 PM	XML Document	398 KB
*	NPoco.dll	29-Jan-18 1:52 PM	Application extens	372 KE
*	Prism.dll	09-Aug-16 5:34 PM	Application extens	34 KE
*	🖆 Prism	09-Aug-16 5:34 PM	XML Document	84 KE
	System.Threading.Tasks.Extensions.dll	05-Nov-16 4:57 AM	Application extens	26 KE
	System.Threading.Tasks.Extensions	05-Nov-16 4:57 AM	XML Document	19 KE
	誛 ToolboxDatabaseManagement	04-Jul-18 1:43 PM	Application	75 KE
	ToolboxDatabaseManagement.exe.config	22-Jun-18 9:45 AM	CONFIG File	1 KE

Figure 22. ToolboxDatabaseManagement executable

Enter the port and the password of the PostgreSQL (1) and click **Connect** (Figure 23) (see step 1.3).

Toolbox database management Connection options Port (default 5432): PostgreSQL password:	-		×
Connect Delete selected databases 2		Clo	se

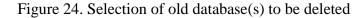
Figure 23. Enter the port and password of the PostgreSQL

The settings are: port: 5432 (by default); password: postgres (as recommended)

Note: If you have changed the password and you do not remember it, please follow the steps you will find at the following link in order to reset your PostgreSQL password: https://gsartoolbox.org/content/documents/ResettingPostgreSQLPassword.pdf

All available databases from Toolbox v.4.x will appear. Select the old database(s) you want to delete (1) and click *Delete selected databases* (2) (Figure 24).

1	Installed Toolbox databases	
	Toolbox 4	
	✓Toolbox 4.1	
	Toolbox 4.2	
	Toolbox 4.3	
	Delete selected databases	Close



Toolbox 4.6 Installation Manual

V. OASIS Metapath

Click on the *OASIS Metapath* item of the bootstrap application and follow the onscreen instructions.

VI. Known issues

Running the QSAR Toolbox on limited user accounts

The QSAR Toolbox server requires administrative permissions to run when running in Remote connect mode. They are necessary in order for the application to open a port and listen for client connection.

Toolbox Client starts, displays splash screen, but the application window disappears after that, leaving a process in the Task Manager.

For a workaround of this issue please visit the Known Issues section of the QSAR Toolbox website at <u>https://qsartoolbox.org/download/issues/</u>

QSAR Toolbox User Manual

Toolbox 4.6 Installation Manual

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