User manual

Deploying the Toolbox WebServices engine
Document history

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<th>Version</th>
<th>Comment</th>
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<tr>
<td>Version 1.0</td>
<td>31/07/2017, first version</td>
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1. Purpose

The Toolbox WebServices engine (TBWSe) exposes a set of Toolbox functions via a RESTful API. It gives third-party applications access to the substances, profilers and calculators available in the QSAR Toolbox.

2. Prerequisites

To deploy the WebServices engine, you would need:

- Toolbox Server installed on the same host (see the QSAR Toolbox Installation Manual)
- Internet Information Services (IIS) version 8 or later – installation is described in the next section
3. Enabling IIS Manager and related components (Windows 7, 8, 8.1, 10)

1. Go to **Control Panel → Programs → Turn Windows features on or off**
2. Locate and expand the **Internet Information Services** node
3. Check both **Web Management Tools** and **World Wide Web Services**
4. Expand **Web Management Tools** and make sure **IIS Management Console** is checked

![Image of Windows Features]

5. Expand **World Wide Web Services**, then expand **Application Development Features** and make sure **.NET Extensibility 4.5** (or later), **ASP.NET 4.5** (or later), **ISAPI Extensions** and **ISAPI Filters** are all checked

![Image of Windows Features]
6. Click **OK**. Windows will then install the selected components. Once they are installed, click **Close**.

Windows completed the requested changes.
4. Deploying TBWSe in IIS

1. Open IIS Manager (run `inetmgr.exe`)
2. From the **Actions** pane, click **View Sites** and then **Add Website**
3. Enter a **Site name** of your choice, e.g. `toolbox`
4. Click the **Select...** button right of **Application Pool**, select "**.NET v4.5**" from the **Select Application Pool** window and click **OK**
5. Enter **Physical path**. This is the path to the directory where the Toolbox Server has been installed. The default location is `C:\Program Files (x86)\QSAR Toolbox\QSAR Toolbox 4.1\Toolbox Server`

6. Pay attention to the **Port** field – enter an unoccupied port of the local host, eg. **8000**

7. Keep the **Start Website immediately** checkbox checked and click **OK**

8. Right-click on the newly created website, select **Manage Website** and then click on **Browse *:8000 (http)** - this should load the TBWSe welcome page in your browser.
9. Allow anywhere from 2 to 10 minutes for the TBWS engine to load if this is the first start of the system.
5. Documentation of the available functions

The TBWS engine is self-documented meaning that the documentation of the available functions is contained within the engine itself. It can be accessed from the Documentation link on the start page.

6. Support

Support can be obtained via the QSAR Toolbox Helpdesk.