SWIVT – Installation Guide

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SWIVT – Installation Guide v2.2

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1   Installation of SWIVT

This document is an excerpt of the SWIVT User Manual.

Important: to run SWAN4120A and higher, the MPICH software has to be installed. See the SWAN website for more details.

1.1   Matlab version

The SWIVT GUI and the accompanying Manuals in Adobe pdf format can be downloaded from http://swivt.deltares.nl/. The zip–files are protected with a password.

For the installation of the Matlab GUI follow these steps:

Preferred method:

1. Create a directory on your local system, eg **C:\projects\swivt** and download the zip file there
2. Extract this zip–file in this **swivt** directory, retaining its directory structure
3. Locate the *matlab.exe* file. This can be found for instance in **C:\Program files\MATLAB\R2018a\bin\win64**, and create a shortcut to it on your desktop.
4. Right click on the Matlab icon, select [Properties] and change the path (Start in) into **C:\projects\swivt**
5. Select as icon the SWIVT icon in **C:\projects\swivt**
6. Double click the icon: Matlab will start and the correct paths are set.

Alternative:

1. Create a directory on your local system, eg **C:\projects\swivt** and download the zip file there
2. Extract this zip–file in this **swivt** directory, retaining its directory structure
3. Start Matlab
4. Go to **C:\projects\swivt** by typing:

```
>> cd C:\projects\swivt
```

5. Type

```
>> startup
```

which ensures that the correct paths are set.
Please note that in the alternative method steps 4 and 5 need to be carried out each time SWIVT is started. The first method, therefore, is more user friendly.

1.2   Standalone version

The SWIVT Standalone version can be downloaded from https:// swivt.deltares.nl/ as a zip file. In addition the required Matlab engine can also be downloaded as a zip file.
For the installation of the Matlab GUI follow these steps:

1. Create a directory on your local system, eg **C:\projects\swivt** and download the zip files there.
2. Extract these zip–files in this **swivt** directory, retaining their directory structure.

3. Start the program with the *swivt.bat* file (in our example the command is `C:\projects\swivt\swivt.bat`) . This ensures that the required libraries will be found by the executable. In our example the contents looks like this:

```
PATH=v94\bin\win64;v94\runtime\win64;C:\windows;
start swivt.exe
```

A limited number of graph editing features are available in Matlab Standalone 7.0 and above:
- ➢ zoom in and out
- ➢ panning
- ➢ 3D rotation
- ➢ use data cursor to request x, y and z position in axes
- ➢ colour bar
- ➢ legend

however, this is less than is available with the Matlab *.m* and *.p* files.

Please note: The standalone version of SWIVT does not include Matlab source files. The Matlab engine does not need to be downloaded if the SWIVT application is upgraded, unless this is specifically mentioned on the download site. The Matlab engine version number is used as the name of the directory (eg v94).

1.3   Start a SWIVT session

The program can be started from the Matlab prompt with:

```
>> swivt
```

or

```
>> swivt('new')
```

In the first instance the last session will be restored, the latter uses the default settings. In this context default settings mean:
- ➢ No cases available at start–up. **This implies that all locally stored previous sessions will be erased!**
- ➢ Default SWIVT web server URL is used.