

Installing, Running and Uninstalling the Oxygen Transport Modeller (OTM)

System Requirements. This has been tested on a Windows 10 64-bit machine. It should also work on Windows 7 64 bit machine. It will not work on a 32 bit machine. As yet, neither a Linux version nor a Mac Version, is available.

Installation. The steps required are as follows:

1. Download the installer, My AppInstaller_mcr.exe, to your machine. This is a large file (720Mb approx). The next steps are not sensitive to where it is downloaded on the machine.
2. Run this file. You will be asked for permission to run this file. If you do not have administrator rights on the machine, you may not be allowed to grant this permission; you will need to speak to the systems administrator if this is the case.

If successful, a graphical user interface (GUI) with “otmV2point61ForUpLoadtoJournal 1.0” will appear.

3. Click Next.
4. The GUI will refresh with a request to install at a location on the computer, the default being the folder

“C:\Program Files\otmV2point61ForUpLoadtoJournal”,

which will be created if you Click “Next” at this point.

However we recommend you use the “Browse” button to select a location within your “Documents” folder. This is especially important if you do not have write privileges within “C:\Program Files”.

TAKE A NOTE OF THE INSTALLATION DIRECTORY for later use.

DO NOT SELECT “Add a shortcut to the desktop” unless you really need to run from a shortcut. In particular, you need to follow the steps below in the section entitled “**Running via a shortcut or the start menu**” if using a shortcut.

Click “Next”

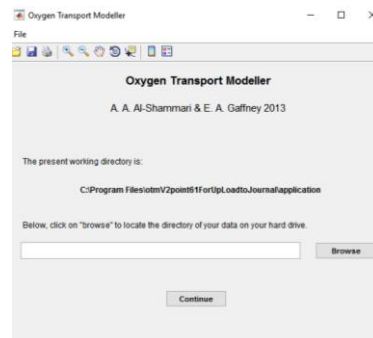
5. You may receive a message from Matlab that Runtime is already installed. Click “Next” if so. This will happen if already have another Matlab standalone installed on the machine.
6. You will be asked for confirmation to install. Click “Install”.
7. The program will install. If Matlab runtime is already installed, this will be fast; if runtime is not installed it may take some time.
8. You will see a GUI with “Installation completed successfully.” Click “Finish”.

Running (without a shortcut, recommended).

1. Navigate to the installation directory specified in part 4 above.
2. You will see four folders within this directory, entitled “appdata”, “application”, “sys” and “uninstall”.
3. Navigate to the application folder.
4. Run the executable “otmV2point61ForUpLoadtoJournal.exe”.
 - a. Transiently, you will see the Matlab standalone splashscreen



- b. This will be followed by the first GUI of the Oxygen Transport Modeller.



- c. Note that on the first execution this may take a few minutes but thereafter it should be relatively fast

Running, via a shortcut or the start menu.

Running from the start menu on Windows is essentially equivalent to using a short cut and thus the procedure below apply more or less equally to both. While initially it will appear that the Oxygen transport modeller runs successfully from a shortcut or the start menu, the limitations in its path handling due to the creation of the Standalone within Matlab means that it will look for data files only from where the shortcut is initiated.

To prevent runtime errors when the Oxygen Transport Modeller is started from a shortcut, which will manifest as the oxygen transport modeller hanging during finite element simulations, the following steps are required as a one-off procedure.

1. Locate the data files.
 - a. Navigate to the installation directory specified in part 4 of **“Installation”** above.
 - b. You will see four folders within this directory, entitled “appdata”, “application”, “sys” and “uninstall”.
 - c. Navigate to the application folder.
 - d. From this folder, copy the two files entitled

“CardiacRestingParameters.dat” and “SkeletalRestingParameters.dat”

2. These files need to be placed into the path of the Oxygen Transport modeller.
 - a. For a standard shortcut simply paste the above two files into the directory where the shortcut sits.
 - b. In the case of using the start menu this directory can be found by right-clicking on the icon entitled

“otmV2point61ForUpLoadtoJournal 1.0”

in the start menu and then hovering the mouse over the “More” option in the subsequent drop-down list, and finally clicking on the option “Open File Location” in the new drop down list. This will open the folder where the files

“CardiacRestingParameters.dat” and “SkeletalRestingParameters.dat”

should be deposited.

Uninstalling

An uninstall option is available from the start menu. Alternatively, navigate to the installation directory specified in part 4 of **“Installation”** above. In the folder “uninstall”, navigate to “...\uninstall\bin\win64” and run “uninstall.exe”.