

How to set-up an ProMalDes-development framework with VC (v12.4.2019)

1. Download Visual Studio Community

- <https://visualstudio.microsoft.com/de/vs/community/>
- Install also the English language package;

2. Download QT-version for MSVC (open source version; 5.12.1 msvc2017_64)

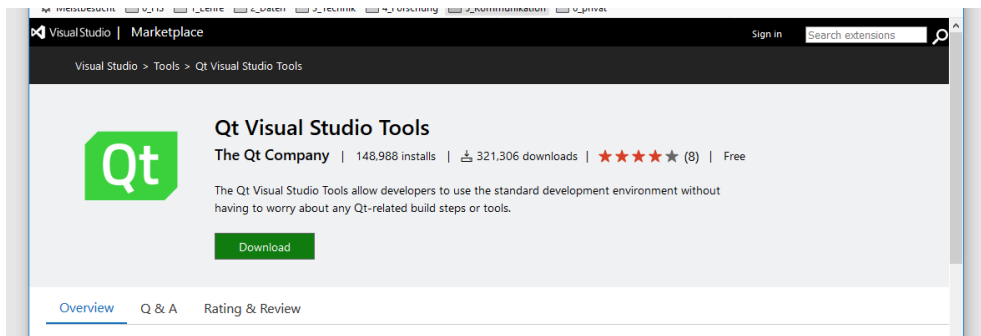
- <https://www.qt.io/download>

3. Download QWT (currently 6.1.0)

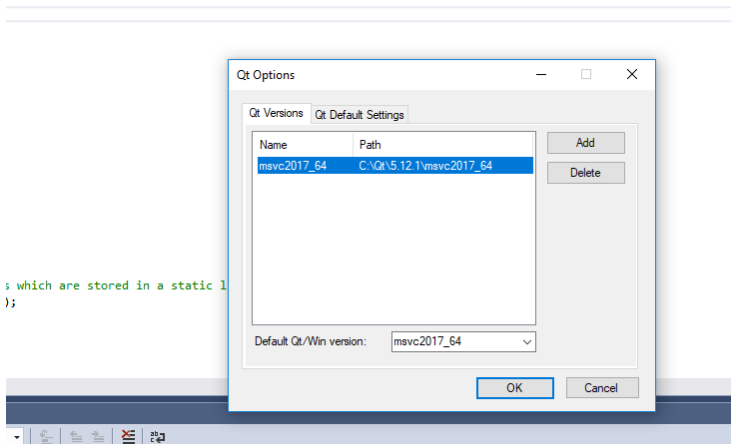
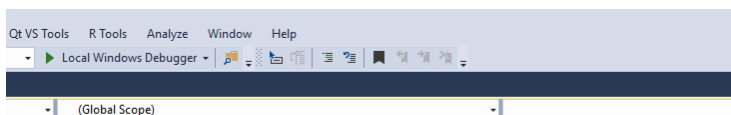
- <https://sourceforge.net/projects/qwt/files/qwt/6.1.0/>
- It must be compiled by VS; I can also deliver the binaries

4. Download QT-add in for VC and install it

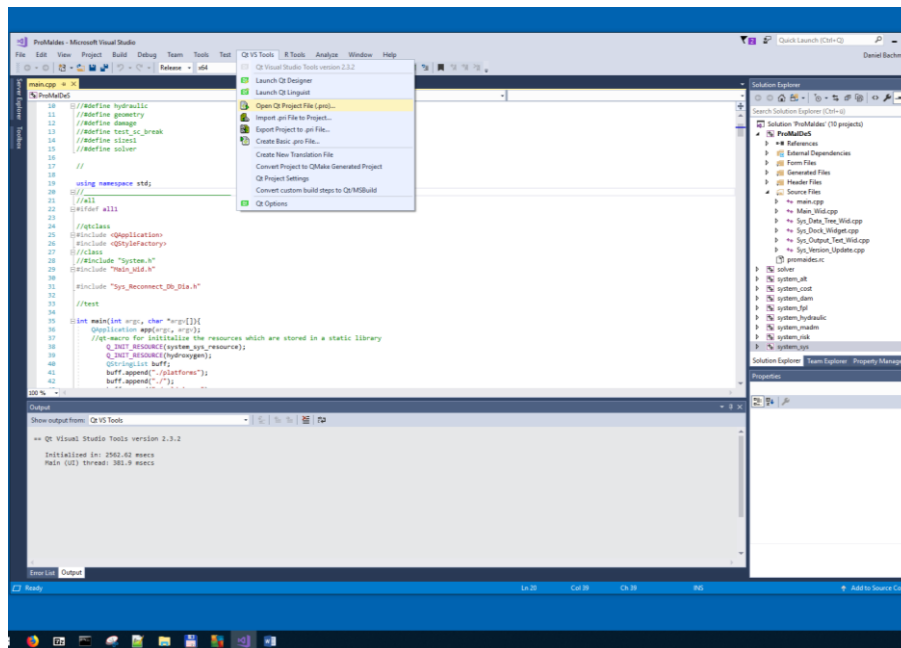
- <https://marketplace.visualstudio.com/items?itemName=TheQtCompany.QtVisualStudioTools-19123>



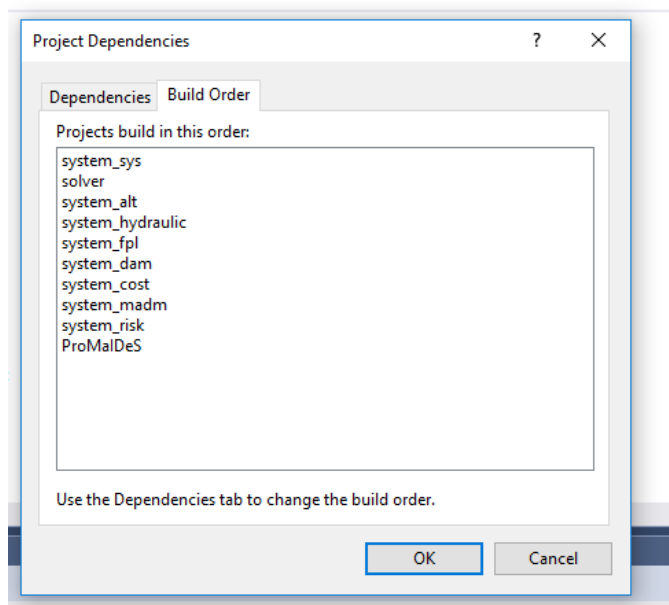
- Set the available QT-versions in MSVC in the *QT VS Tools*



5. Load step by step the pro-files of each module into VS

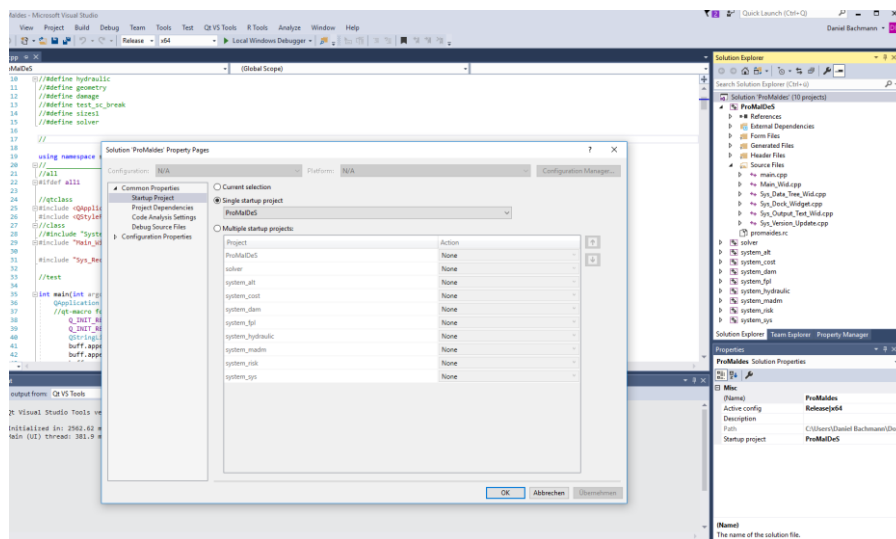


- Start by system_sys (all project will produce static libs, just the ProMalDes.pro file will generate an executable)
- Use via QT VS Tools/Open QT project file...
- Set the project dependency; the required build order is shown below

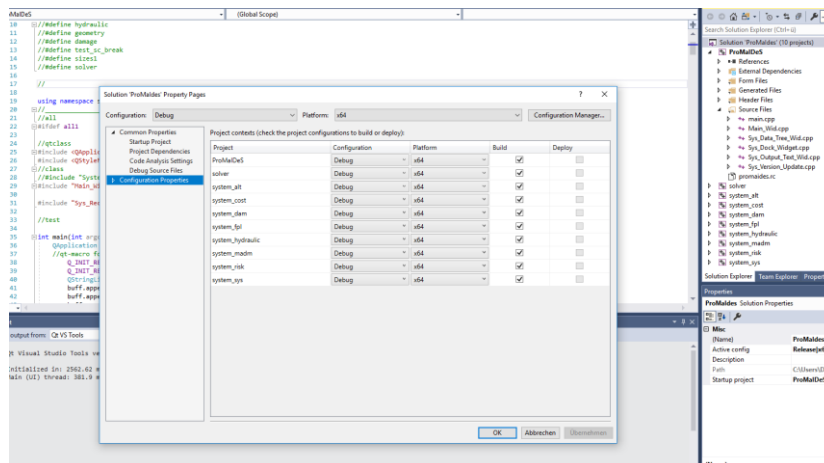


- Try to compile each project step-by-step

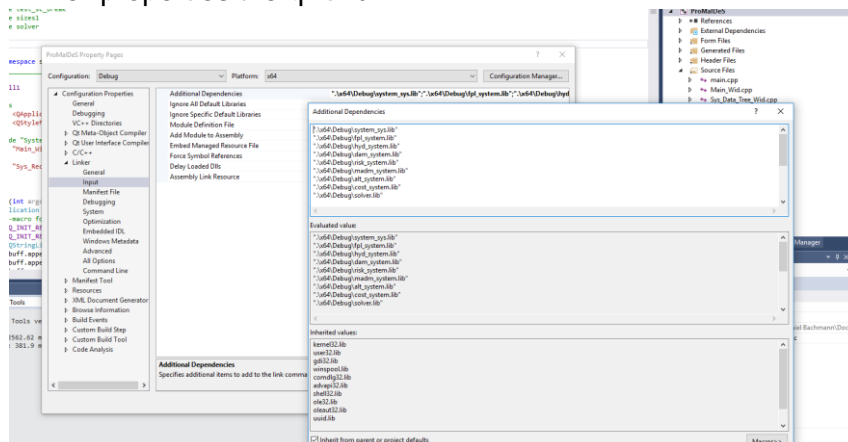
- Set the ProMaDes-project as “Start-up project” (e.g “solution property pages”)



- Here you can specify further build option



- Beware that after an import of the ProMaDes-project file you have to delete in the Linker-properties the qwt.lib



- Project dependency is as follow:
 - ProMaideS: to all
 - Solver: to none
 - System_alt: system_dam, system_fpl, system_hydraulic
 - System_cost: system_alt

- system_dam: system_hydraulic, system_sys
- system_fpl: system_sys
- system_hydraulic: solver, system_sys
- system_madm: system_cost, system_risk
- system_risk: system_dam, system_fpl, system_hydraulic, system_sys
- system_sys: to none

6. Deploying:

for **deploying** the tool following files should be in folder (I'm not sure if all are required!, Should check it on a clean PC):

- imageformats\ (*this one comes from the Qt/plugin folder*)
- platforms\ (*this one comes from the Qt/plugin folder*)
- ProMaDeS.tlog\
- sqldrivers\ (*this one comes from the Qt/plugin folder*)
- alt_system.lib
- cost_system.lib
- dam_system.lib
- fpl_system.lib
- hyd_system.lib
- icudt52.dll
- icuin52.dll
- icuuc52.dll
- libbz2-1.dll
- libeay32.dll
- libfontconfig-6.dll
- libgcc_s_dw2-1.dll
- libgcc_s_seh-1.dll
- libglib-2.0-0.dll
- libgomp-1.dll
- libharfbuzz-0.dll
- libiconv-2.dll
- libintl-8.dll
- libjpeg-8.dll
- libmysql.dll
- libpcre16-0.dll
- libpng16-16.dll
- libpq.dll
- libstdc++-6.dll
- libwinpthread-1.dll
- madm_system.lib
- main.obj
- Main_Headers_Precompiled.h.obj
- Main_Wid.obj
- moc_Main_Wid.obj
- moc_Sys_Data_Tree_Wid.obj
- moc_Sys_Dock_Widget.obj
- moc_Sys_Output_Text_Wid.obj
- ProMaDeS.log
- promaides.res
- ProMaDes_vc.exe

- ProMalDes_vc.pch
- ProMalDes_vc.Build.CppClean.log
- Qt5Core.dll
- Qt5Gui.dll
- Qt5OpenGL.dll
- Qt5PrintSupport.dll
- Qt5Sql.dll
- Qt5Svg.dll
- Qt5Widgets.dll
- Qt5Xml.dll
- qt_work.log
- qwt.dll (*this one comes from the compiled qwt-directory*)
- risk_system.lib
- solver.lib
- ssleay32.dll
- Sys_Data_Tree_Wid.obj
- Sys_Dock_Widget.obj
- Sys_Output_Text_Wid.obj
- Sys_Version_Update.obj
- system_sys.lib
- zlib1.dll

the QT-libs should be also copied from Qt folder

7. Debugging

the same procedure you have to do for your debug folder; especially the sqldrivers, images and platform-folders are important!; be aware that you have to change the working directory of your Debug version in the Project-properties (Debugging) of the ProMalDes-project to the folder, where the folders and libs are stored!

Good luck!