Installing and running openPASS GUI

After downloading the source code of openPASS GUI, there is still pre-requisite steps to build the framework and being able to run it.

# Compiler

The source code of openPASS GUI requires a specific compiler to build the framework. Here are the steps to set up the compiler:

1. Install Qt 5.6.2 with MinGW 4.9.2 32bit freely available under the license LGP from the following online address:

<https://download.qt.io/official_releases/qt/5.6/5.6.2/qt-opensource-windows-x86-mingw492-5.6.2.exe>

2. Set the environment variables:

a. Go to: Control Panel\System\Advanced system settings

> Advanced > Environment Variables > System variables

b. Edit the variable "Path" and add at the end:

C:\Qt\Qt5.6.2\Tools\mingw492\_32\bin\; C:\Qt\Qt5.6.2\5.6\mingw492\_32\bin\;

# Build environment

Once the compiler is installed and the environment variables are set up, the openPASS GUI can be built following these steps:

1. Start Qt Creator
2. Start a new session and name it:  
   > File > Session Manager > New
3. Open Project openPASS.pro from the downloaded folder
4. Configure the project:
5. Go to: > Build & Run (Desktop Qt 5.6.2 MinGW 32bit)
6. In “Build Settings”: edit build configuration in either Debug or Release
7. Toggle on: “Shadow build”
8. Browse or edit the “Build Directory”  
   Example: C:\OpenPASS\Simopenpass
9. Build the project:  
   Click on: > Build > Build Project “%CurrentProjectName”

Note: A warning will appear concerning the build directory location. This warning has no influence on the build process. Following the aforementioned instructions, the application will be correctly built.

# Run application

Before running the application openPASS, an additional step is still needed. The content of the directory “\Requirements” found in the downloaded folder must be copied to the folder containing the application openPASS.exe.

Note: At this step, the application can run but no simulation is possible until the openPASS development environment is set up (see Part 2 of the Installation Guide). It is important to know, that all the built applications related to openPassMaster, openPassSlave and openPassGUI **must be located in the same directory** in order to be able to run simulations.