openPASS 0.8
Installation
A User’s point of view
Installation process

1. Standard procedure
   Available on the openPASS website
   Core + GUI?

2. Conan procedure
   Available on the openPASS website
   Core + GUI

3. Pre-built package
   Available on the ci.Eclipse project
   Non-customized Core + GUI
Installing OpenPASS

This section describes how compile and run openPASS. Please make sure that all prerequisites have been properly installed according to section Installing Prerequisites. If you have strictly followed the instructions, the installed source packages should be located on your machine under

```
C:\OpenPASS\thirdParty
```

for Windows and

```
~/OpenPASS/thirdParty
```

for Linux. If there is a path deviation, the following commands must be adjusted.

To keep the installation process of openPASS as simple as possible, we again recommend a specific folder structure. If you have strictly followed and will follow the recommended paths of this guide, no command modifications are necessary.

- Recommended checkout path of openPASS repository:

```
C:simopenpass
```
1) Standard Procedure

• Using the latest version of the libraries in the prerequisites and the tested versions
  - Issue during installation of sphinx:
    – Could not find function xmlCheckVersion in library libxml2. Is libxml2 installed?
      Resolved installing lxml, libxml2-dev and libxslt1-dev

After that we arrived at the end of the installation guide and even though there were no error raised, the last command

```bash
cp /C/OpenPASS/bin/core/bin/* /C/OpenPASS/bin/core
```

didn’t worked since nothing (the core) has been built in the first directory and nowhere else.
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2) Conan procedure

- $ yes | pacman -Syu (repeat until no additional packages where installed)
- navigate with "cd" to script folder
- sh 10_prepare_msys2.sh
- $ sh 15_prepare_mingw.sh
- $ sh 20_build.sh
- Add "c:\msys64\mingw64\bin" (your Msys2 Installation path) to your PATH enviromnent variables.

Just one addition to this guide: you need to change line 58 in the “openPASS recipe” to “WITH_GUI: ON” which is the CMAKE command to build the GUI and is default off.
2) Conan procedure

Two attempts:

1. Successful installation with tested libraries – not working
2. Unsuccessful installation with latest releases
2) Conan procedure
Successful installation with tested libraries – not working
2) Conan procedure

Successful installation with tested libraries – not working
2) Conan procedure

Unsuccessful installation with latest releases

Two different errors in two different attempts:
1. ERROR: Package ‘...’ build failed
2. ERROR: Compiler not defined for compiler.libcxx
Warning: Package '2da45343793248d2d1033733f9dad6b572b7e91' build failed.

Error: openpass/0.8: Error in build() method, line 56

Configuring incomplete, errors occurred!

Error: openpass/0.8: Build folder C:/conan/79da20/1

Error: openpass/0.8: Error in build() method, line 56

Configuring incomplete, errors occurred!
/c/simopenpass/utils/ci/conan/script

openpass/0.8 exports_sources: Copied 1 '.xsd' file: ProfilesCatalog.xsd
openpass/0.8 exports_sources: Copied 35 '.xodr' files
openpass/0.8 exports_sources: Copied 4 '.pdf' files: Glossary.pdf, openPASS_Setup_PCM_Win7x64.pdf, TutorialOpenPass_GUI.pdf, openPASS_Setup_StepByStep.pdf
openpass/0.8 exports_sources: Copied 3 '.chm' files: GUI-DeveloperDocumentation.chm, openPASS_Developer_Docu.chm, openPASS_Function_Docu.chm
openpass/0.8 exports_sources: Copied 1 '.pptx' file: Doxygen_Framework.pptx
openpass/0.8 exports_sources: Copied 3 '.doxy' files: Common.doxy, Developer.doxy, Function.doxy
openpass/0.8 exports_sources: Copied 2 '.bat' files: genDeveloper.bat, genFunction.bat
openpass/0.8 exports_sources: Copied 21 '.sh' files
openpass/0.8 exports_sources: Copied 1 '.dox' file: mainpage.dox
openpass/0.8 exports_sources: Copied 1 '.ini' file: pytest.ini
openpass/0.8 exports_sources: Copied 3 '.xlsx' files: UT_Design2TM.xlsx, UT_Design2TM_tire.xlsx, UT_Design2TM_tire_TME.xlsx
openpass/0.8: The stored package has not changed
openpass/0.8: Exported revision: 2b8910c54ca1f04869253762a271a9c1
mkdir: cannot create directory `../../../install_file/openpass/build': File exists
ERROR: compiler not defined for compiler.libcxx
Please define compiler value first too

Fernando Chirici@LAPTOP-EUORDF37 MSYS /c/simopenpass/utils/ci/conan/script
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3) Pre-built Package

- The openPASS core was correctly working immediately after the installation
- The GUI wasn’t working
3) Pre-built Package

GUI issue fix

Add two environment variables (so navigate to Control Panel -> System -> Advanced system settings -> Environment Variables) and add the following **System Variables**:

1) Name: QT_PLUGIN_PATH
   Value: C:\msys64\mingw64\share\qt5\plugins

2) Name: QT_QPA_PLATFORM_PLUGIN_PATH
   Value: C:\msys64\mingw64\share\qt5\plugins\platforms

[Note: Assuming that’s the position of your msys64]
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