

## Setup build-environment on Windows

Necessary steps to create a build-environment for GSE and Application on a Windows-PC

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# 1 Introduction

This document describes the necessary steps to create a build-environment for the GSE and Application on a Windows-PC

## 2 Prerequisites

The Windows-Version you are using should be the latest version of Windows 10

To setup the build-environment the following programs will be needed:

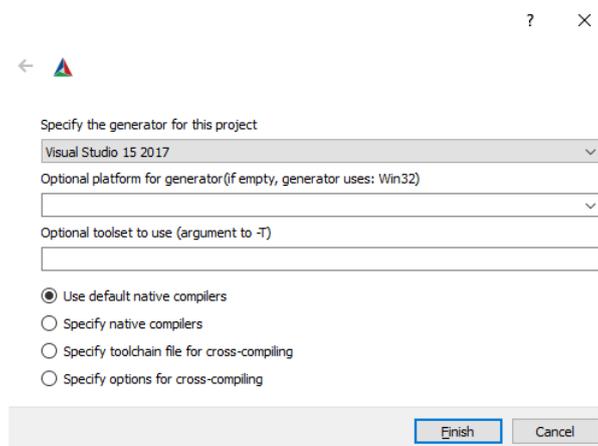
- CMake 3.13 or higher (“cmake-gui” is highly recommended)
- Microsoft Visual Studio 2015 or higher (Express Editions are supported) or
- MinGW compiler-suite

## 3 Using CMake

After installing the necessary tools CMake is used for creating a project which can be used inside an IDE to change and compile the GSE and Application.

The procedure in CMake is the following:

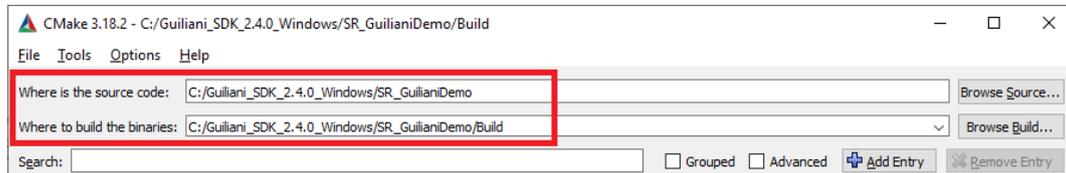
- Choose source-location
- Choose build-location where the project will be created
- Click “Configure” and confirm the creation of the build-location if it does not exist yet
- Select the Generator for the project. This can be any of the Generators in the list, but we strongly recommend to choose “Visual Studio XXX” or “MinGW Makefiles”.  
**Note: Please select the optional platform according to the architecture of the SDK.**
- Check and change your configuration to satisfy your needs
- Click “Generate” to create the project



Select the generator for the project

### 3.1 Build specific Application

When you choose to only build a project for a specific Application you will choose the folder of this Application as the source-location for CMake (e.g. C:\Projects\SR\_GuilianiDemo). The resulting project will not contain the GSE and you will need to do some additional configuration.



Select source- and destination-location for project

### 3.2 Configure and Generate Project

After you have the necessary changes in the configuration, click on “Configure” below the list of configuration-values and after that on “Generate”.

**Note: if there are messages in red in the info-box at the bottom, there might be an error during configuration due to invalid values. Please check your configuration in such a case according to the displayed error-message. If you don't know where the error might come from choose to delete the configuration using “File -> Delete Cache” and start over again.**

### 3.3 Building the project

After the project is created you can open it in the appropriate IDE and start working on the source-files and re-compile.