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1 Windows

MSVC 2012 Express (not officially supported by Teamcenter)

1.1 Install

Install the Visual Studio Express 2012 for Windows Desktop version.

1.2 Changes in bmide.bat

The bmide_generatecode.bat is using TC_BIN, if not defined following error
`Error: Could not find or load main class com.teamcenter.bmide.codegen.utility.GenerateCodeMain`
is shown. Add TC_BIN definition into bmide.bat

```
if not defined TC_ROOT set TC_ROOT=C:\plm\tc112
if not defined TC_BIN set TC_BIN=%TC_ROOT%\bin
```

Add following line for 64bit compilation:

```
call "C:\Program Files (x86)\Microsoft Visual Studio 11.0\VC\vcvarsall.bat" x86_amd64
set PATH=%JRE_HOME%\bin;%JDK_HOME%\bin;%TC_ROOT%\lib;%FMS_HOME%\bin;%FMS_HOME%\lib;
%FMS_HOME%;%PATH%
```

1.3 Configuration in BMIDE Project properties

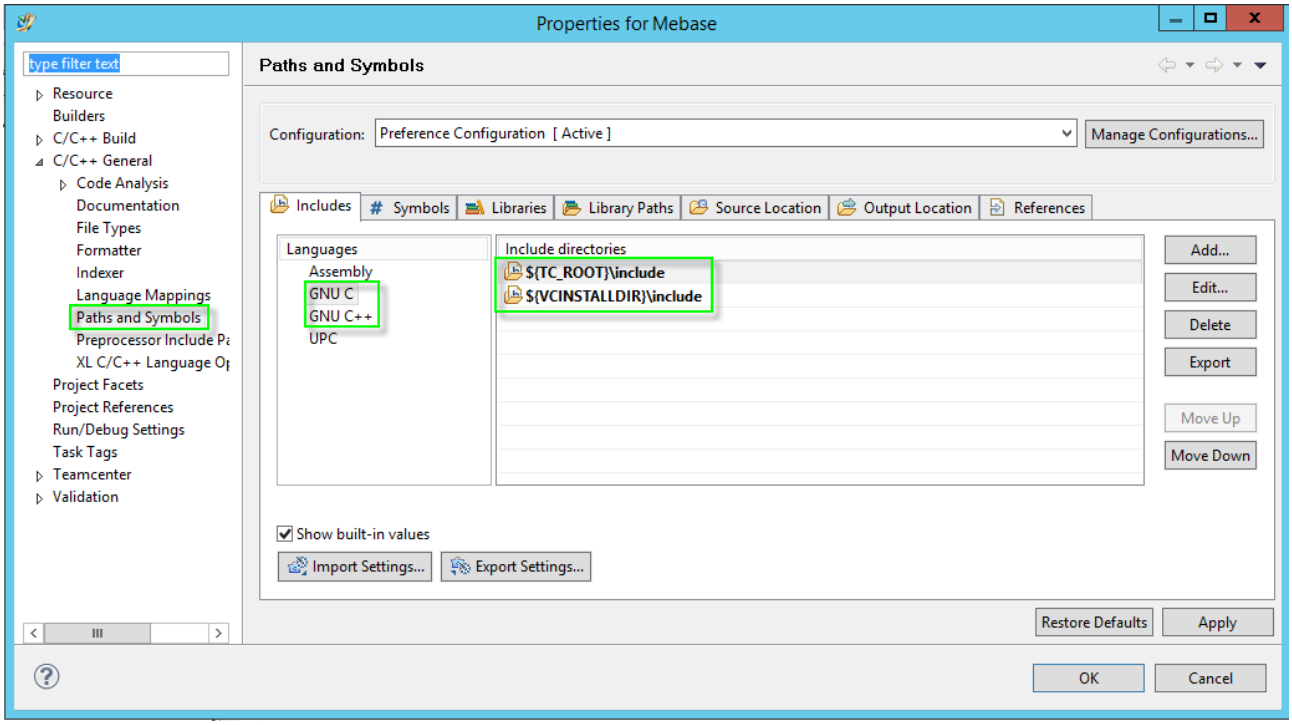
Path and symbols

For symbol evaluation define correct include directories:

Windows:

C
${TC_ROOT}\include
${VCINSTALLDIR}\include

C++
${TC_ROOT}\include
${VCINSTALLDIR}\include



1.4 Use visual studio for compile and debug

1.4.1 Project

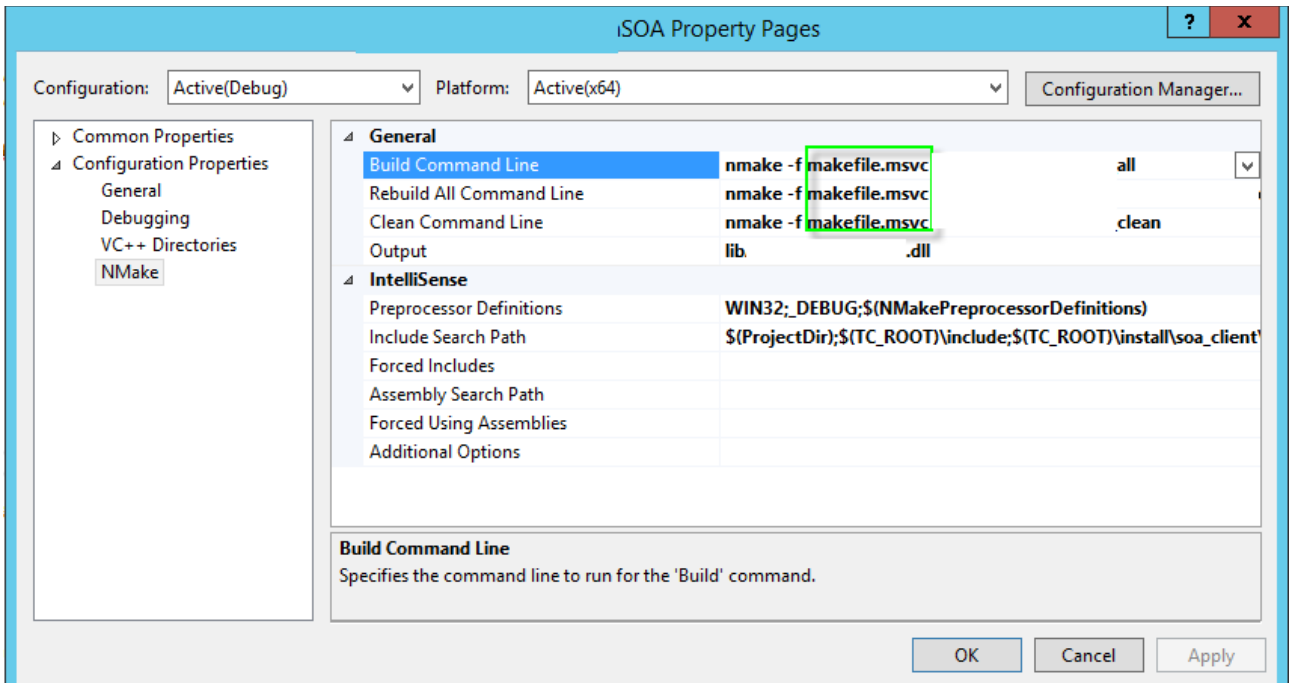
Options

Compile NDEBUG

for GNU C and GNU C++ compiler.

Copy makefile.wintx64 to makefile.msvc
Activate the -Zi option

Create nmake visual studio project using makefile.msvc and all | clean parameter



Move the msvc project file into BMIDE project directory

1.4.2 Debug

Build

Debug by process attach

2 Unix

2.1 Configuration in BMIDE Project properties

2.1.1 Path and symbols

C
Get system configuration with
`gcc -xc -E -v -`

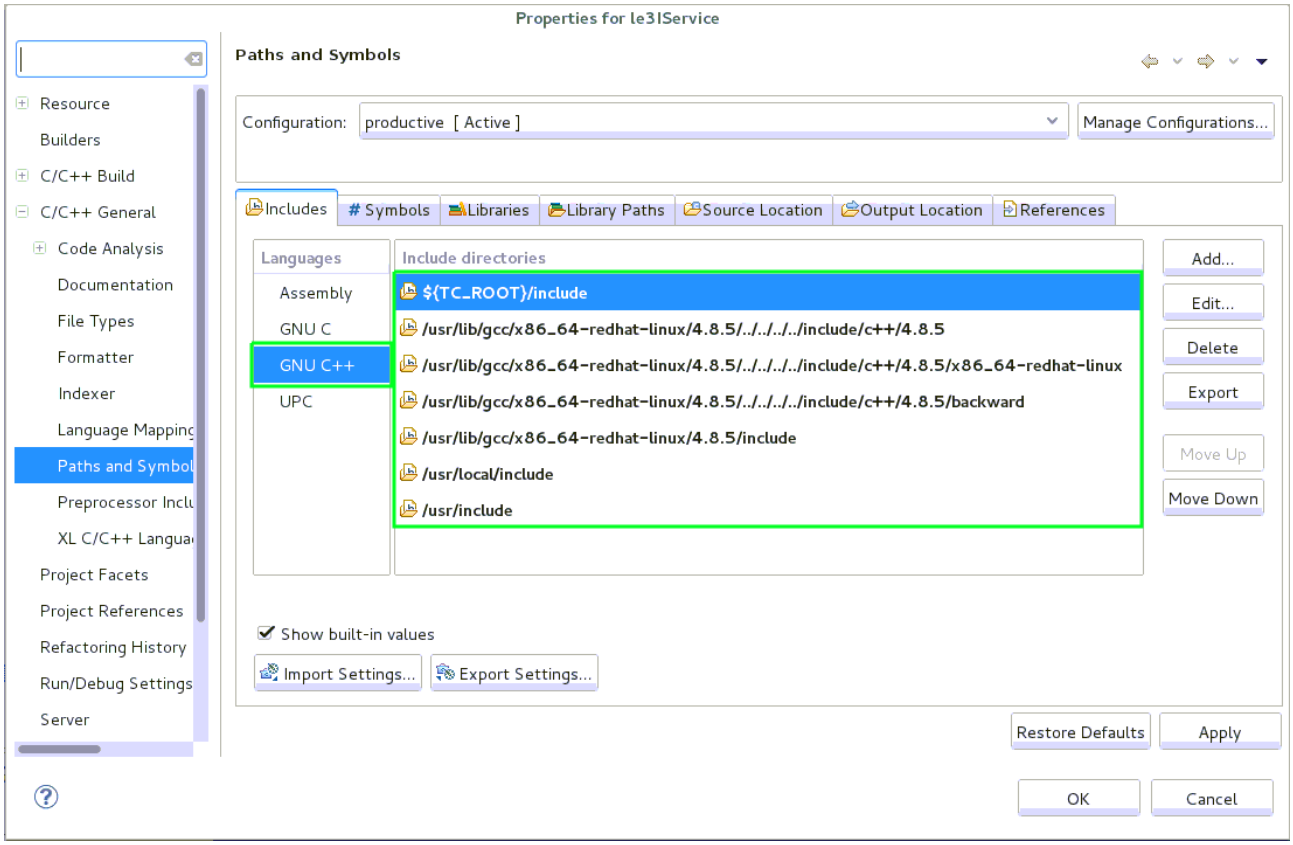
and add it after ${TC_ROOT}/include e.g.:

```
${TC_ROOT}/include
/usr/lib/gcc/x86_64-redhat-linux/4.8.5/include
/usr/local/include
/usr/include
```

C++
Get system configuration with
`gcc -xc++ -E -v -`

and add it after ${TC_ROOT}/include e.g.:

```
${TC_ROOT}/include
/usr/lib/gcc/x86_64-redhat-linux/4.8.5/../../../../include/c++/4.8.5
/usr/lib/gcc/x86_64-redhat-linux/4.8.5/../../../../include/c++/4.8.5/x86_64-redhat-linux
/usr/lib/gcc/x86_64-redhat-linux/4.8.5/../../../../include/c++/4.8.5/backward
/usr/lib/gcc/x86_64-redhat-linux/4.8.5/include
/usr/local/include
/usr/include
```



2.2 Configuration attached debugger

option -ggdb

makefile.lnx64

```
OPT_CXX_FLAGS       = -ggdb
```

3 Source management

I prefer not install use subversion from BMIDE directly, but from external tool (Tortoise, Eclipse).
It is easier to revert generated changes from outside.

To Create Template without building check in

package just do

4 Change in environment

- same mashine, same dir OK

- same machine other check out dir
 change make file

- other machine

 change make file

4.1 Add new service

clean project

generate service artifacts

4.2 Modify type

clean project

generate service artifacts

4.3 Change service operation

rename service cxx and hxx file for this service to cxx_orig and hxx_orig

clean project

generate service artifacts

merge service changes from cxx and hxx files into cxx_orig and hxx_orig

remove cxx and hxx files and rename cxx_orig and hxx_orig back to cxx and hxx