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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

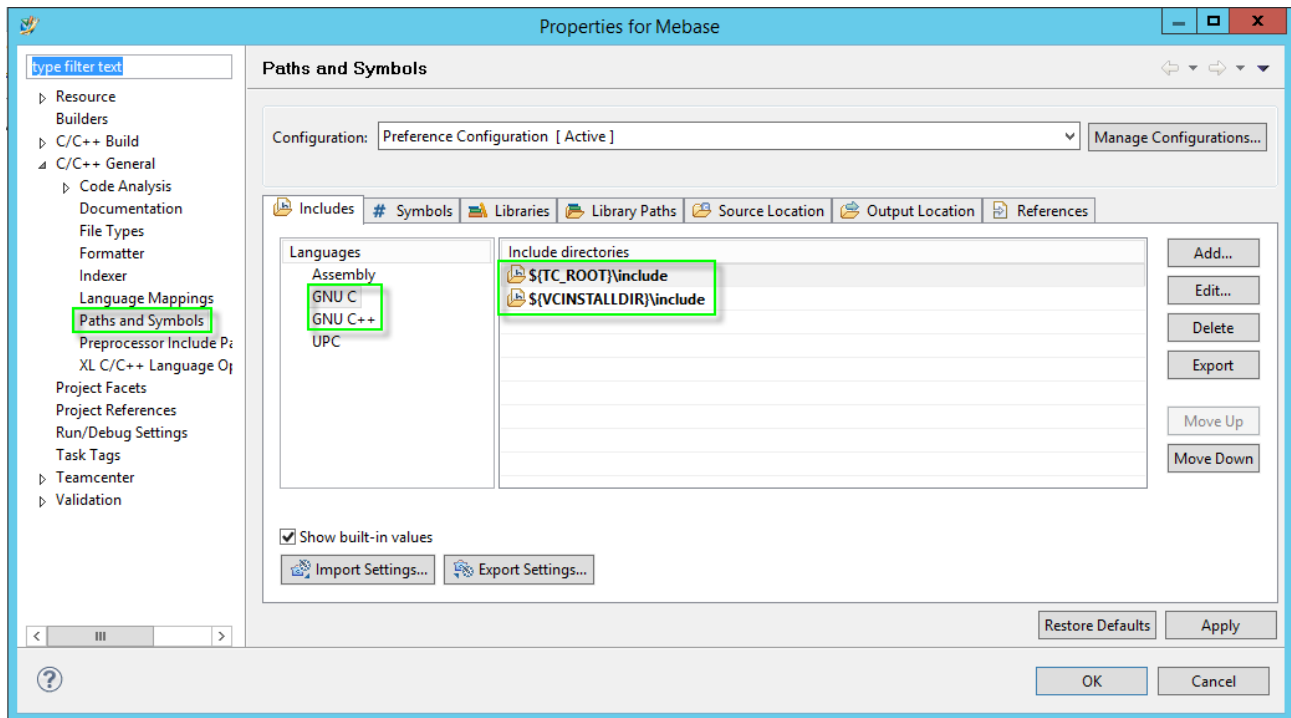
`${TC_ROOT}\include`

`${VCINSTALLDIR}\include`

C++

`${TC_ROOT}\include`

`${VCINSTALLDIR}\include`



## 1.4 Use visual studio for compile and debug

### 1.4.1 Project

#### Options

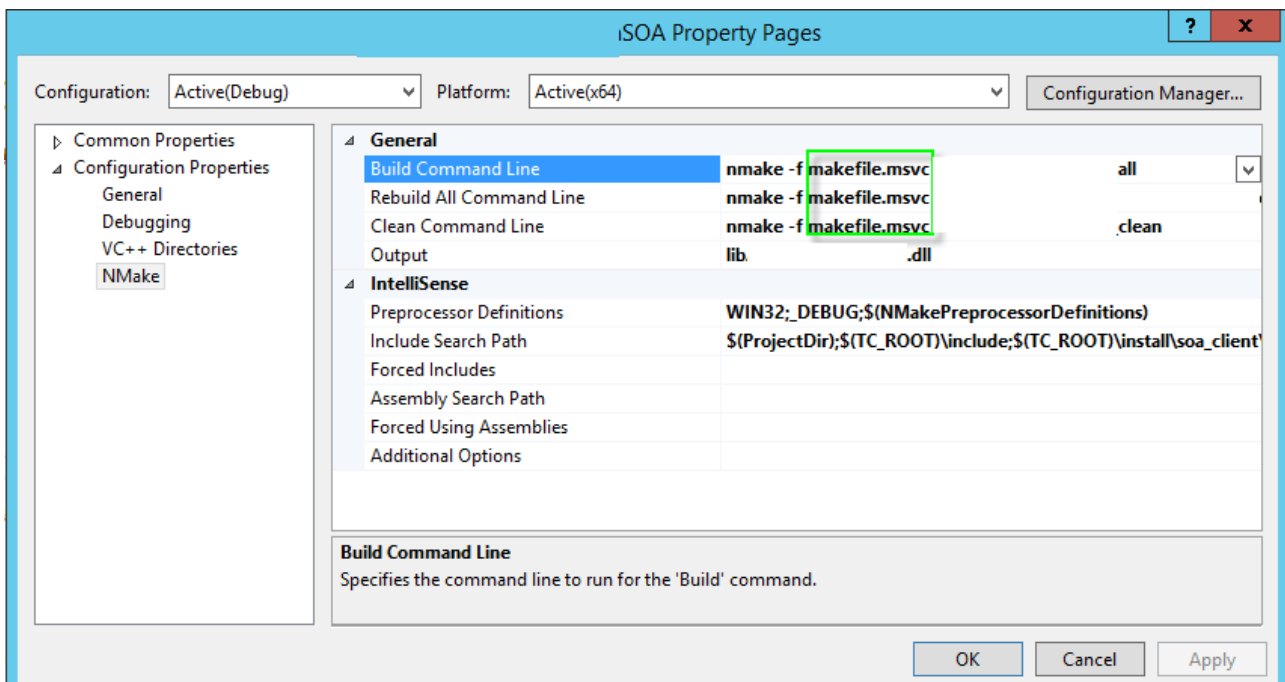
Compile NDEBUG

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

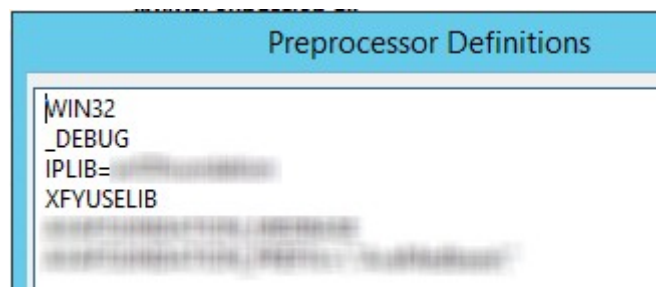


## 1.4.2 Define IntelliSense

The intellisense does not use the make file content, it means the configuration have to be copied.

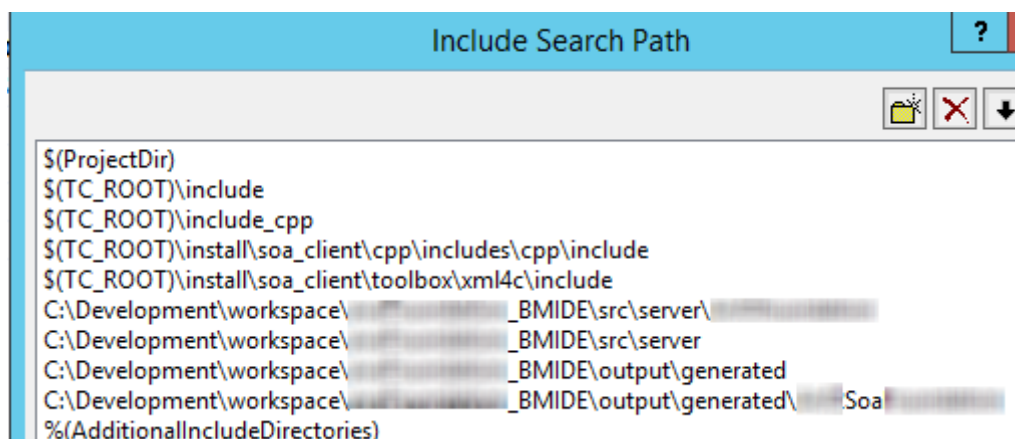
### Preprocessor definition

Preprocessor definition are in project and platform macro files in CXX\_FLAGS variable. Especially the macro IPLIB is required.



### Include paths

Include paths are in project and platform macro files in CPP\_INCLUDES variable.



The image is from two dlls environment, where the Soa dll is using a general purpose dll.

### 1.4.3 Move the msvc project file into BMIDE project directory

The easiest way how to use it, which I found till now is to close the visual studio and move the \*.vcxproj.\* Files into the BMIDE project directory (same place as makefile.msvc).

### 1.4.4 Debug

Build

Copy dlls to tc\_bin or other plce in path

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
```

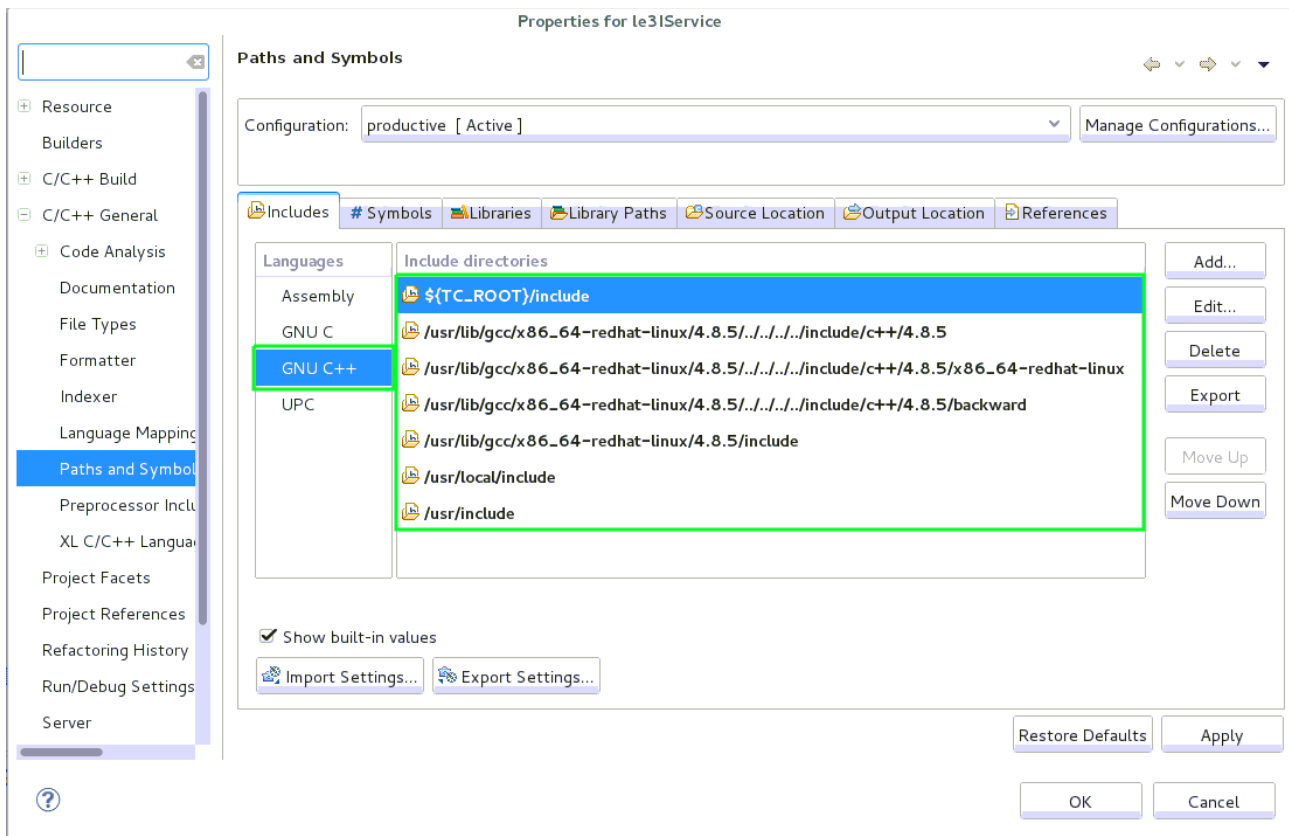
C++

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 -gddb

makefile.lnx64

OPT\_CXX\_FLAGS = -gddb

## 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