

I have to modify the cmake files in HELLO and HELLOGUI folders in order to create the SalomeHELLO.sln.

The screenshot shows a Windows File Explorer window with the address bar displaying the path: This PC > Downloads > 2024 > Salome_Mars_Intergrations > Salome_Src > hello. The left sidebar shows the 'Downloads' folder selected. The main pane displays a list of files and folders with columns for Name, Date modified, Type, and Size.

Name	Date modified	Type	Size
.git	3/12/2024 2:21 PM	File folder	
.vs	4/2/2024 9:41 AM	File folder	
adm_local	3/12/2024 2:21 PM	File folder	
bin	3/12/2024 2:21 PM	File folder	
CMakeFiles	4/2/2024 9:42 AM	File folder	
doc	3/12/2024 2:21 PM	File folder	
HELLO	4/2/2024 9:42 AM	File folder	
HELLOGUI	4/2/2024 9:42 AM	File folder	
idl	3/12/2024 2:21 PM	File folder	
resources	3/12/2024 2:21 PM	File folder	
src	4/1/2024 9:49 AM	File folder	
x64	4/2/2024 9:25 AM	File folder	
ALL_BUILD.vcxproj	4/2/2024 9:42 AM	VC++ Project	41 KB
ALL_BUILD.vcxproj.filters	4/2/2024 9:23 AM	VC++ Project Filte...	1 KB
ALL_BUILD.vcxproj.user	4/2/2024 9:41 AM	Per-User Project O...	1 KB
cmake_install.cmake	4/2/2024 9:23 AM	CMAKE File	2 KB
CMakeCache.txt	4/2/2024 9:42 AM	Text Document	15 KB
CMakeLists.txt	2/27/2024 3:15 PM	Text Document	9 KB
COPYING	2/8/2024 2:07 PM	File	27 KB
HELLO_version.h.in	2/8/2024 2:07 PM	IN File	3 KB
INSTALL.vcxproj	4/2/2024 9:23 AM	VC++ Project	11 KB
INSTALL.vcxproj.filters	4/2/2024 9:23 AM	VC++ Project Filte...	1 KB
README	2/8/2024 2:07 PM	File	3 KB
SalomeHELLO.sln	4/2/2024 9:23 AM	Visual Studio Solu...	6 KB
SalomeHELLOConfig.cmake.in	2/8/2024 2:07 PM	IN File	6 KB
ZERO_CHECK.vcxproj	4/2/2024 9:42 AM	VC++ Project	52 KB
ZERO_CHECK.vcxproj.filters	4/2/2024 9:23 AM	VC++ Project Filte...	1 KB

Here are the updated cmake files:

Cmake file in HELLO folder:

```
20 # Define paths for include directories
21 set(KERNEL_INCLUDE_DIRS "C:/SALOME-9.12.0/W64/KERNEL/include/salome")#needed
22 Set(OMNIORB_INCLUDE_DIR "C:/SALOME-9.12.0/W64/omniORB/include")#needed
23 set(OMNIORB_INCLUDE_4_DIR "C:/SALOME-9.12.0/W64/omniORB/include/OMNIORB4")#needed
24 set(HELLOEngine_PTHREADS_DIRS "C:/SALOME-9.12.0/W64/threads/include")#needed
25 Set(HELLOGUI_DIRS "C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLOGUI")#needed
26
27 # --- options ---
28 # additional include directories
29 INCLUDE_DIRECTORIES(
30     ${HELLOEngine_PTHREADS_DIRS}
31     ${KERNEL_INCLUDE_DIRS}
32     ${OMNIORB_INCLUDE_DIR}
33     ${OMNIORB_INCLUDE_4_DIR}
34     ${HELLOGUI_DIRS}
35     ${PROJECT_BINARY_DIR}
36     ${PROJECT_BINARY_DIR}/idl
37     ${CMAKE_CURRENT_SOURCE_DIR} #added 2/29/24
38 )
39
40 # --- definitions ---
41 ADD_DEFINITIONS(
42     ${OMNIORB_DEFINITIONS}
43 )
44
45 # libraries to link to
46 SET(_link_LIBRARIES
47     ${OMNIORB_LIBRARIES}
48     ${KERNEL_SalomeIDLKernel}
49     ${KERNEL_OpUtil}
50     ${KERNEL_SalomeContainer}
51     ${KERNEL_SalomeKernelHelpers}
52     ${KERNEL_SalomeDS}
53     ${HELLOGUI_LIBRARIES}
54     SalomeIDLHELLO
55 )
56
57 SET(OMNIORB_LIBRARIES "C:/SALOME-9.12.0/W64/omniORB/lib/x86_win32")#needed
58 SET(KERNEL_SalomeIDLKernel "C:/SALOME-9.12.0/W64/KERNEL/lib/salome")#needed
59 SET(KERNEL_OpUtil "C:/SALOME-9.12.0/W64/KERNEL/lib/salome")#needed
60 SET(KERNEL_SalomeContainer "C:/SALOME-9.12.0/W64/KERNEL/lib/salome")#needed
61 SET(KERNEL_SalomeKernelHelpers "C:/SALOME-9.12.0/W64/KERNEL/lib/salome")#needed
62 SET(KERNEL_SalomeDS "C:/SALOME-9.12.0/W64/KERNEL/lib/salome")#needed
63
64 # --- headers ---
65 # header files / no moc processing
66 SET(HELLO_HEADERS
67     HELLO.hxx
68 )
69
70 # --- sources ---
71 # sources / static
72 SET(HELLO_SOURCES
73     HELLO.cxx
74 )
75
76 # --- rules ---
77 ADD_LIBRARY(HELLOEngine ${HELLO_SOURCES})
78 TARGET_LINK_LIBRARIES(HELLOEngine PRIVATE ${_link_LIBRARIES})#added 3/5/24
79 INSTALL(TARGETS HELLOEngine EXPORT ${PROJECT_NAME}TargetGroup DESTINATION ${SALOME_INSTALL_LIBS})
80
81 INSTALL(FILES ${HELLO_HEADERS} DESTINATION ${CMAKE_INSTALL_PREFIX}/${SALOME_INSTALL_HEADERS})#modified 2/29/24
82
```

Cmake file in HELLOGUI folder:

```
set(CMAKE_MODULE_PATH ${CMAKE_MODULE_PATH} "${CMAKE_CURRENT_SOURCE_DIR}")
INCLUDE(UseQtExt)
# Define paths for include directories
set(KERNEL_INCLUDE_DIRS "C:/SALOME-9.12.0/W64/KERNEL/include/salome")
set(GUI_INCLUDE_DIRS "C:/SALOME-9.12.0/W64/GUI/include/salome")
set(OMNIORB_INCLUDE_DIR "C:/SALOME-9.12.0/W64/omniORB/include")
set(OMNIORB_INCLUDE_4_DIR "C:/SALOME-9.12.0/W64/omniORB/include/OMNIORB4")
set(SALOME_CAS_DIRS "C:/SALOME-9.12.0/W64/CAS/inc")
set(SALOME_PTHREADS_DIRS "C:/SALOME-9.12.0/W64/threads/include")

# --- options ---
# additional include directories
INCLUDE_DIRECTORIES(
  ${Qt5_INCLUDE_DIRS}
  ${SALOME_BOOST_DIRS}
  ${SALOME_PTHREADS_DIRS}
  ${SALOME_CAS_DIRS}
  ${QT_INCLUDES}
  ${OpenCASCADE_INCLUDE_DIR}
  ${PYTHON_INCLUDE_DIRS}
  ${Boost_INCLUDE_DIRS}
  ${OMNIORB_INCLUDE_DIR}
  ${OMNIORB_INCLUDE_4_DIR}
  ${KERNEL_INCLUDE_DIRS}
  ${GUI_INCLUDE_DIRS}
  ${PROJECT_BINARY_DIR}
  ${PROJECT_BINARY_DIR}/idl
  ${CMAKE_CURRENT_SOURCE_DIR}
)

# additional preprocessor / compiler flags
ADD_DEFINITIONS(
  ${OMNIORB_DEFINITIONS}
  ${QT_DEFINITIONS}
  ${OMNIORB_DEFINITIONS}
  ${OpenCASCADE_DEFINITIONS}
  ${BOOST_DEFINITIONS}
  ${PYTHON_DEFINITIONS}
)

# libraries to link to
find_package(Qt5 COMPONENTS Core Widgets REQUIRED)

# Include the custom CMake module
set(CMAKE_MODULE_PATH ${CMAKE_MODULE_PATH} "${CMAKE_CURRENT_SOURCE_DIR}")
```

```
INCLUDE(UseQtExt)
```

```
# Define paths for include directories
```

```
set(KERNEL_INCLUDE_DIRS "C:/SALOME-9.12.0/W64/KERNEL/include/salome")
```

```
set(GUI_INCLUDE_DIRS "C:/SALOME-9.12.0/W64/GUI/include/salome")
```

```
set(OMNIORB_INCLUDE_DIR "C:/SALOME-9.12.0/W64/omniORB/include")
```

```
set(OMNIORB_INCLUDE_4_DIR "C:/SALOME-9.12.0/W64/omniORB/include/OMNIORB4")
```

```
set(SALOME_CAS_DIRS "C:/SALOME-9.12.0/W64/CAS/inc")
```

```
set(SALOME_PTHREADS_DIRS "C:/SALOME-9.12.0/W64/threads/include")
```

```
set(SALOME_BOOST_DIRS "C:/SALOME-9.12.0/W64/EXT/include/boost-1_67")
```

```
# --- options ---
```

```
# additional include directories
```

```
INCLUDE_DIRECTORIES(
```

```
  ${Qt5_INCLUDE_DIRS}
```

```
  ${SALOME_BOOST_DIRS}
```

```
  ${SALOME_PTHREADS_DIRS}
```

```
  ${SALOME_CAS_DIRS}
```

```
  ${QT_INCLUDES}
```

```
  ${OpenCASCADE_INCLUDE_DIR}
```

```
  ${PYTHON_INCLUDE_DIRS}
```

```
  ${Boost_INCLUDE_DIRS}
```

```
  ${OMNIORB_INCLUDE_DIR}
```

```
  ${OMNIORB_INCLUDE_4_DIR}
```

```
  ${KERNEL_INCLUDE_DIRS}
```

```
  ${GUI_INCLUDE_DIRS}
```

```
  ${PROJECT_BINARY_DIR}
```

```
  ${PROJECT_BINARY_DIR}/idl
```

```
  ${CMAKE_CURRENT_SOURCE_DIR}
```

```
)
```

```
# additional preprocessor / compiler flags
```

```
ADD_DEFINITIONS(
```

```
  ${OMNIORB_DEFINITIONS}
```

```
  ${QT_DEFINITIONS}
```

```
  ${OMNIORB_DEFINITIONS}
```

```
  ${OpenCASCADE_DEFINITIONS}
```

```
  ${BOOST_DEFINITIONS}
```

```
  ${PYTHON_DEFINITIONS}
```

```
-DHELLO_EXPORTS
```

```
# -DUTILS_EXPORTS
```

```
-DSALOMEAPP_EXPORTS
```

```
)
```

```
# libraries to link to
SET(_link_LIBRARIES
  ${KERNEL_SalomeLifeCycleCORBA}
  ${KERNEL_SalomeDS}
  ${GUI_SalomeApp}
  ${HELLO_LIBRARIES}
  HELLOEngine
)

# --- headers ---
# header files / to be processed by moc
SET(HELLOGUI_HEADERS
  HELLOGUI.h
)

# --- sources ---
# sources / moc wrappings
QT5_WRAP_CPP(_moc_SOURCES ${HELLOGUI_HEADERS})

# sources / static
SET(_other_SOURCES
  HELLOGUI.cxx
)

# sources / to compile
SET(HELLOGUI_SOURCES ${_other_SOURCES} ${_moc_SOURCES})

# --- resources ---
# resource files / to be processed by lrelease
SET(_ts_RESOURCES
  HELLO_icons.ts
  HELLO_msg_en.ts
  HELLO_msg_fr.ts
  HELLO_msg_ja.ts
)

# --- rules ---
ADD_LIBRARY(HELLO ${HELLOGUI_SOURCES})
target_link_libraries(HELLO PRIVATE SalomeIDLHELLO ${_link_LIBRARIES} Qt5::Core Qt5::Widgets)
INSTALL(TARGETS HELLO EXPORT ${PROJECT_NAME}TargetGroup DESTINATION ${SALOME_INSTALL_LIBS})
INSTALL(FILES ${HELLOGUI_HEADERS} DESTINATION include/HELLOGUI)
INSTALL(FILES ${_ts_RESOURCES} DESTINATION translations)
```

Here is the output of the cmake command.

```
Kevin.lam@DESKTOP-02N9274: ~/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello (master)
$ cmake -DCMAKE_BUILD_TYPE=Release -DCMAKE_INSTALL_PREFIX=c:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/HELLO_BUILD -DCMAKE_PREFIX_PATH="C:/Qt/5.15.16/msvc2019_64/lib/cmake" ../hello/src
-- Building for: Visual Studio 17 2022
-- Selecting Windows SDK version 10.0.22621.0 to target Windows 6.2.9200.
-- The C compiler identification is MSVC 19.37.32825.0
-- The CXX compiler identification is MSVC 19.37.32825.0
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working C compiler: C:/Program Files/Microsoft Visual Studio/2022/Community/VC/Tools/MSVC/14.37.32822/bin/Hostx64/x64/cl.exe - skipped
-- Detecting C compile features
-- Detecting C compile features - done
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: C:/Program Files/Microsoft Visual Studio/2022/Community/VC/Tools/MSVC/14.37.32822/bin/Hostx64/x64/cl.exe - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Configuring done (4.0s)
-- Generating done (0.0s)
CMake Warning:
  Manually-specified variables were not used by the project:

    CMAKE_BUILD_TYPE

-- Build files have been written to: C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello
```

Here is the output of the SalomeHELLO.sln.

```
Output
Show output from: Build
Rebuild started...
1>----- Rebuild All started: Project: ZERO_CHECK, Configuration: Release x64 -----
1>Checking Build System
2>----- Rebuild All started: Project: HELLOEngine, Configuration: Release x64 -----
2>Building Custom Rule C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/CMakeLists.txt
2>HELLO.cxx
2>C:/SALOME-9.12.0/W64/KERNEL/include/salome/Utils_SALOME_Exception.hxx(51,1): warning C4005: 'UTILS_EXPORT': macro redefinition
2>C:/SALOME-9.12.0/W64/KERNEL/include/salome/SALOME_Utils.hxx(34,1): message : see previous definition of 'UTILS_EXPORT'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(58,17): warning C4273: 'HELLO_Abstract::HELLO_Abstract': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.hxx(45,3): message : see previous definition of '{ctor}'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(75,18): warning C4273: 'HELLO_Abstract::~HELLO_Abstract': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(51,12): message : see previous definition of '{dctor}'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(85,35): warning C4273: 'HELLO_Abstract::hello': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.hxx(53,21): message : see previous definition of 'hello'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(151,35): warning C4273: 'HELLO_Abstract::goodbye': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.hxx(54,21): message : see previous definition of 'goodbye'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(213,22): warning C4273: 'HELLO_Abstract::copyOrMove': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.hxx(55,21): message : see previous definition of 'copyOrMove'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(258,23): warning C4273: 'HELLO_Abstract::getVersion': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(58,21): message : see previous definition of 'getVersion'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(267,36): warning C4273: 'HELLO_Session::getStudyServant': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(71,24): message : see previous definition of 'getStudyServant'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(274,39): warning C4273: 'HELLO_No_Session::getStudyServant': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.hxx(82,23): message : see previous definition of 'getStudyServant'
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.cxx(290,28): warning C4273: 'HELLOEngine_factory': inconsistent dll linkage
2>C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLO/HELLO.hxx(87,27): message : see previous definition of 'HELLOEngine_factory'
2>HELLOEngine.vcxproj -> C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/HELLO/Release/HELLOEngine.lib
2>Done building project "HELLOEngine.vcxproj".
3>----- Rebuild All started: Project: HELLO, Configuration: Release x64 -----
3>Generating moc_HELLOGUI.cpp
3>Building Custom Rule C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/HELLOGUI/CMakeLists.txt
3>HELLOGUI.cxx
3>C:/SALOME-9.12.0/W64/KERNEL/include/salome/Utils_SALOME_Exception.hxx(51,1): warning C4005: 'UTILS_EXPORT': macro redefinition
3>C:/SALOME-9.12.0/W64/KERNEL/include/salome/SALOME_Utils.hxx(34,1): message : see previous definition of 'UTILS_EXPORT'
3>moc_HELLOGUI.cpp
3>Generating Code...
3>HELLO.vcxproj -> C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/HELLOGUI/Release/HELLO.lib
3>Done building project "HELLO.vcxproj".
4>----- Rebuild All started: Project: ALL_BUILD, Configuration: Release x64 -----
4>Building Custom Rule C:/Users/kevin.lam/Downloads/2024/Salome_Mars_Intergrations/Salome_Src/hello/src/CMakeLists.txt
5>----- Skipped Rebuild All: Project: INSTALL, Configuration: Release x64 -----
5>Project not selected to build for this solution configuration
===== Rebuild All: 4 succeeded, 0 failed, 1 skipped =====
===== Rebuild started at 9:42 AM and took 05.792 seconds =====
```

The SalomeHELLO project was built successfully but I don't know why I didn't get the .dll files.