MARTe2-core - User story #274

Include DLL_API in eclipse templates

11.11.2015 09:07 - André Neto

Status:	Closed		**Start date:**	11.11.2015
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:	0.9		**Spent time:**	0.00 hour
Git branch (link):			**SVN commit (link/?p=rev):**	
Git merge to develop (link):				

Description

Update the eclipse template plugins to automatically put the DLL_API macros.

Remark: In Eclipse, there are two contexts where templates are used, one while editing code (called editor templates) and another when a new item is created (called code templates; e.g. when creating a new class). These two sets of templates are not related between them, so DLL_API must be added twice.

Warning: The export option in "Window → Preferences → C/C++ → Code Style → Code Templates", executed on an Eclipse instance running on Windows, adds extra tabs and blank spaces. This is not a problem when the templates are imported on an Eclipse running on Windows because they are ignored, but on Linux they are not ignored, so it messes a bit the generated code based on templates.

Source code files modified

- Assets/Configuration/marte_cpp_code_templates.xml
- Assets/Configuration/marte_cpp_editor_templates.xml

Architecture & design review

N/A

Code and documentation review

Verified with Eclipse 4.4.1 (Luna) running on Windows.

Verified with Eclipse 4.4.1 (Luna) running on Linux.

Unit test review

N/A

History

#1 - 27.11.2015 15:34 - André Neto

- Target version changed from 0.8 to 0.9

#2 - 27.11.2015 15:51 - Ivan Herrero

- Description updated

The macro DLL_API has to be added between the keyword "class" and the name of the class (e.g for a class named Timer, the generated code must be "class DLL_API Timer"). This macro has been added to the editor template "class", but in the code template "Class body" the only viable solution has been adding a todo message telling the developer to add the DLL_API by hand.

The "#define DLL_API" has to be added at the beginning of all source C++ files (i.e. *.cpp). This define has been added to the code template named "Default C++ source template".

Other improvements have been made in the code template "Default C++ source template", like adding an anonymmous namespace in the "Static definitions" section and adding todos reminding developers to check date and author.

See commit 6ded924 on MARTe2-doc repository.

#3 - 27.11.2015 15:51 - Ivan Herrero

Note: The wiki page https://vcis-wiki.f4e.europa.eu/doku.php?id=devenviromenteclipse&#configuration has been modified telling the user to select "User code formatter" option on C/C++ → Editor → Templates screen, otherwise the code assist does not work properly and editor templates like "class" are not expanded at all.

#4 - 27.11.2015 15:57 - Ivan Herrero

- Description updated

#5 - 27.11.2015 15:59 - Ivan Herrero

- Description updated

#6 - 30.11.2015 10:07 - Ivan Herrero

- Description updated

#7 - 30.11.2015 11:06 - Riccardo Vitelli

- Status changed from Code: Impl to Closed