Grant ANR-12-INSE-0011

ANR INS GEMOC

D2.2.1 - Model editor and operational semantics of the MoC modeling language

Task T2.2

Version 0.1

Authors

Author	Partner	Role
Joel Champeau	Lab STICC / ENSTA Bretagne	Lead author
Julien DeAntoni	I3S / INRIA AOSTE	Contributor
Stephen Creff	Lab STICC / ENSTA Bretagne	Contributor
Papa Issa Diallo	Lab STICC / ENSTA Bretagne	Contributor

Contents

1. Introduction

1.1 Purpose

This document presents the model editors implemented to support the MoC modeling language as developed in Task 2.1. It also describe the operational semantics of the MoC modeling language.

1.2 Perimeter

This document is the version 0 of the deliverable D2.2.1 (*Model editor and Operational semantics of the MoCC modelling language*). It includes the description of the model editor developed. The operational semantics is postponed to the next version (v1) of this deliverable.

1.3 Summary

A model editor has been developed for the modeling language using xText. The model editor is available on the GIT server of the collaborative development platform.

2. Model Editor of the MoC Modeling Language

Both a graphical concrete syntax and a textual concrete syntax have been proposed for the MoC modeling language. The source code available on the GIT server of the collaborative development platform includes:

- EMF generated code for the MoC modeling language ($org/gemoc/MoCC/AS$):
  - org.gemoc.mocc.cometaccsl.model
  - org.gemoc.mocc.cometaccsl.model.edit
  - org.gemoc.mocc.cometaccsl.model.editor
- Graphical editor based on Obeo Designer ($org/gemoc/MoCC/concreteSyntax/graphical$):
  - org.gemoc.mocc.cometaccsl.model.design
- Textual editor based on xText ($org/gemoc/MoCC/concreteSyntax/textual$):
  - org.gemoc.mocc.cometaccsl.model.xtext.mocdsl
  - org.gemoc.mocc.cometaccsl.model.xtext.mocdsl.sdk
  - org.gemoc.mocc.cometaccsl.model.xtext.mocdsl.tests
  - org.gemoc.mocc.cometaccsl.model.xtext.mocdsl.ui

3. Operational Semantics of the MoC Modeling Language

To be included in the version 1 of the deliverable D2.2.1 (M24).

4. Conclusion and Perspectives

The first version of the editor is based on the integration of the two metamodels COMETA and CCSL as presented in D2.1.1, and provides the opportunity to create MoC definitions. This document summaries the content of the source code of the editor. The next step is to define the formal semantics associated to the metamodel to consolidate the meta-entities include in the metamodel.

