

SCCharts-Editor based on Yakindu

Project Overview

Project Status:

- **CURRENTLY NOT UNDER ACTIVE DEVELOPMENT**

Responsible:

- Christian Motika

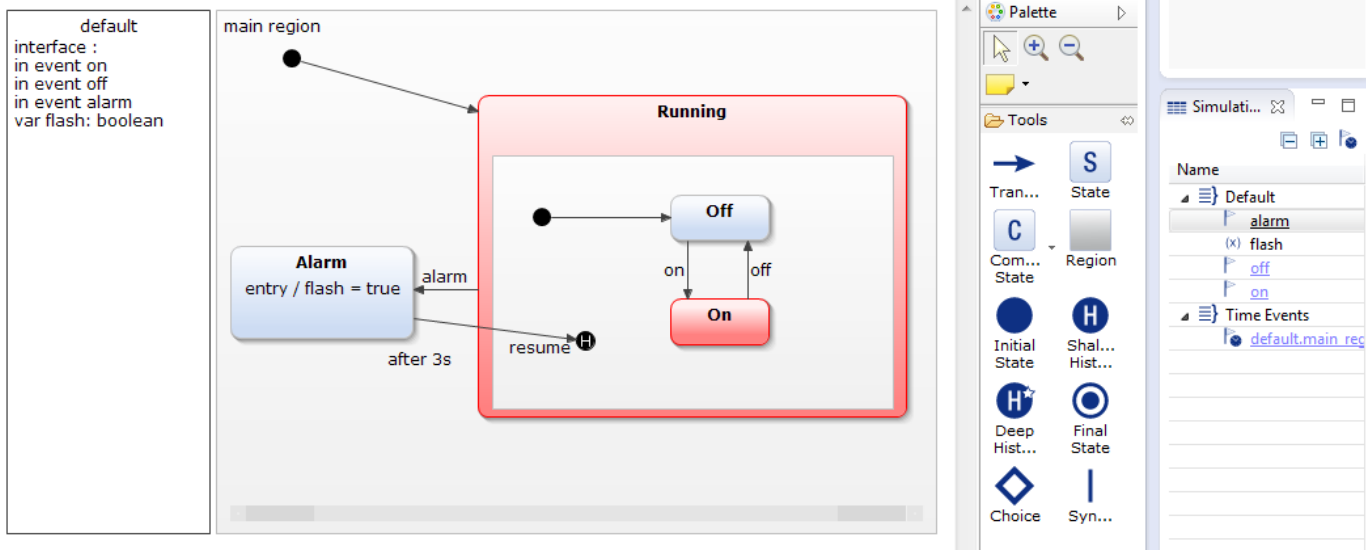
Related Theses:

- Whabi Haribi, *A SyncChart-Editor based on Yakindu*, March 2013 (pdf)

Yakindu SCT

YAKINDU Statechart Tools (SCT) is an open source tool for the specification and development of reactive, event-based systems using state machines (Yakindu SCT User Guide).

YAKINDU SCT consists of a graphical tool for editing and provides validation, simulation, and code generators for different target platforms. The tools are provided as Eclipse-plugins and integrate tightly into the IDE (Yakindu SCT Website).



Yakindu SCT Editor VS KIELER SyncCharts Editor

- Comparison of the graphical representation
- Comparison of the textual description language
- The KIELER textual SyncCharts
- Interfaces declarations
- Transitions priorities

Yakindu SCT module structure

See Yakindu Wiki

Customizing Yakindu SCT Editor to SyncCharts

Two steps are required to adapt the Yakindu SCT Editor to the SyncCharts syntax:

- adapting the graphical representation (sgraph + ui)
- adapting the textual description language (stext)

The graphical representation

To adapt the graphical representation, several steps are required:

1. adapting the Metamodel for the graphical representation of the state machine models (org.yakindu.sct.model.sgraph)
 1. [Yakindu SCT Metamodel](#)
 2. [KIELER SyncCharts Metamodel](#)
2. Figures (org.yakindu.sct.ui.editor.editor.figures)
3. Editparts (org.yakindu.sct.ui.editor.editparts)
4. Property sheets (org.yakindu.sct.ui.editor.property sheets)
5. The palette (org.yakindu.sct.ui.editor/plugin.xml)

Experimentations

- [How to modify Initial and Final States in Yakindu SCT Editor](#)
- [How to add Transition Types in Yakindu SCT Editor](#)

The textual description language

Yakindu: The textual [description language](#) is used to declare and describe behaviors in the state machine.

- [Yakindu-SCCharts textual description language](#).

Project progress