Simulation Configuration and UI modeling

This chapter discusses the components as follows

Project options

Setting options for a Simulation project, e.g., animation, simulation framework, and Simulation engines.

SimulationConfig stereotype

«SimulationConfig» and the SimulationConfig stereotypes as a model-based execution configuration through the «stereotype» SimulationConfig.

Simulation loc

Recording all event occurrences during simulation of a Simulation Configuration.

• Simulation time and simulation clock

Enabling Cameo Simulation Toolkit to obtain the amount of time spent on simulating a model from a simulation clock.

· Automatic start of active objects

An active object whose Classifier is an active Class.

• UI modeling diagram simulation

UI components supporting the UI modeling diagram simulation.

ImageSwitcher and ActiveImage

ImageSwitcher as a powerful animation tool and «ActiveImage» attributes.

Time Series Chart

Displaying plots of runtime values with respect to simulation time and its properties.

Timeline chart

Allowing you to see the active States of an object or a property during simulation or the Activities simulated in an object.

Histogram

Displaying the density of the underlying distribution of data and estimating the probability density function of underlying variables.

Nested UI Configuration stereotype

Creating complex UI mockup consisting of multiple UI Configs.

Reusable UI Mockup

Improving the flexibility in user interface modeling from typing the property using the UI component.

CSV export

Exporting simulation results to a CSV file.

• Nested property selection for configurations

Supporting nested property selection for configurations, e.g., Time series charts, Timelines, Sequence diagram generator, and CSV export.

Attached files supported

Accessing files as «AttachedFile» by using only file names without paths in case of references to files by names.

• Web Server for Cameo Simulation Toolkit

Exporting, opening and using UI mockups, and controlling a model simulation on a web browser on any remote devices.