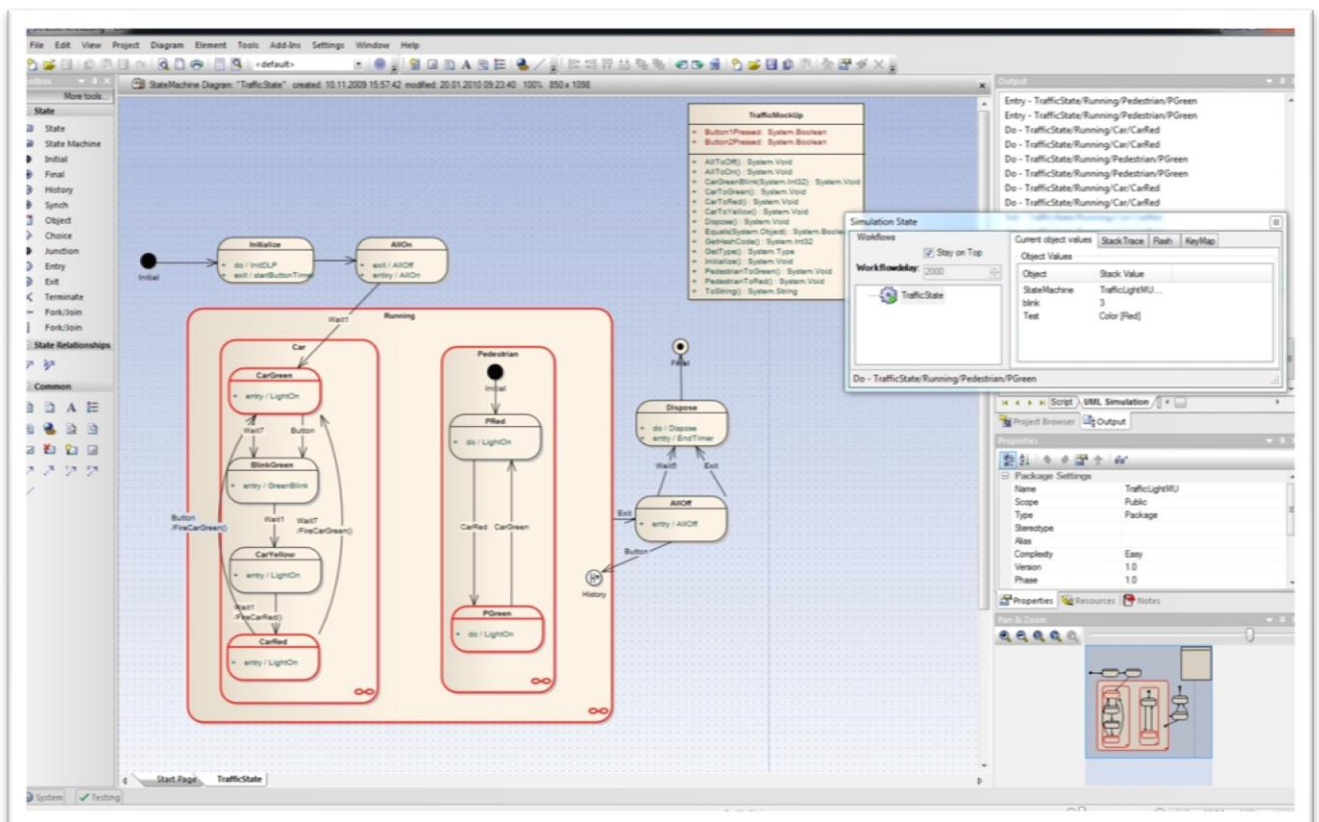


AMUSE, an UML simulation and execution plug-in for Enterprise Architect of SparxSystems

With AMUSE you can boost model-driven software design up to the next level. Due to the simulation of the UML diagrams you usually detect issues earlier than before.

With AMUSE you can validate your model already in your Enterprise Architect UML Model and therefore correct errors in your business workflow or application logic before your software engineers write a single line of code. Detecting Issues early in project life-cycle can save a lot of time and Money. Yet you also can reuse the Source code generated by AMUSE for your Applications. In the standard package this is supported for #C#.

With AMUSE you can create models on any abstraction level and initiate testing already in a very early project stage. By integrating Mock-objects, existing applications and external hardware even highly complex behaviors can be validated.



The plug-in from LieberLieber enables the simulation and execution of state diagrams.

Events can either be initiated by external libraries (Mock-objects, applications, hardware) or manually by a “fire trigger“-function. The simulation speed is configurable and all outputs are logged.

Mock-objects: provide an interface to the modeled logic. Within the UML state model functions of these mock-objects can be activated directly, events can be generated and complex calculations can be triggered thereby get integrated into the model and the simulation.

Applications: which are offering an API can be executed by the simulation. Thus the model can be tested in its real environment. As a simplification the external application can be covered by a mock-object.

Hardware: It is feasible to integrate hardware into the model. Either via the API of the hardware or a mock-object is used to wrap the hardware to include it into the model.

The example below shows a model and the simulation of traffic light. On the left image the traffic light control is simulated by a *Screen-Mock*. The simulation demonstrates that the logic of the traffic light is still defective as the traffic light and the walking light showing green signals at the same time. On the right image the traffic light control is visualized by an external hardware. The information benefit is the same as with the Screen-Mock but the handling of hardware is more comfortable and realistic.



The logic of this model can be tested even without external visualization. The active state within the state diagram is visually highlighted within Enterprise Architect. All executed actions are displayed in the simulation window and all results are exported to the output-log.

AMUSE lets you experience the dynamics of your modeled system already in the design phase. Your models “come to life” and a better common understanding of the requirements is achieved within the whole project team and all stakeholders. The simulation as the basis for optimization helps you to fine-tune your design and to avoid complex iteration steps at a later stage of your project.

As AMUSE is a fully integrated plug-in, it is easy to learn and integrates smoothly into your tool chain. Having simulated, analyzed and optimized your model, it is just the push of a button to produce the code in your preferred programming language.

For more information or a face-to-face presentation please contact:

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