

19.0 LTR SP2 Version News

Magic Model Analyst

Released on: March 26, 2019

Developed and enhanced with a number of new features, Magic Model Analyst 19.0 SP2 includes newly added functionality to better target simulation solutions. This version offers many new enhancements and improvements on a variety of options for increased flexibility, greater range of support, and greater convenience for practical usage. And please don't forget to give us your feedback on [LinkedIn](#), [Twitter](#) or [Facebook](#).

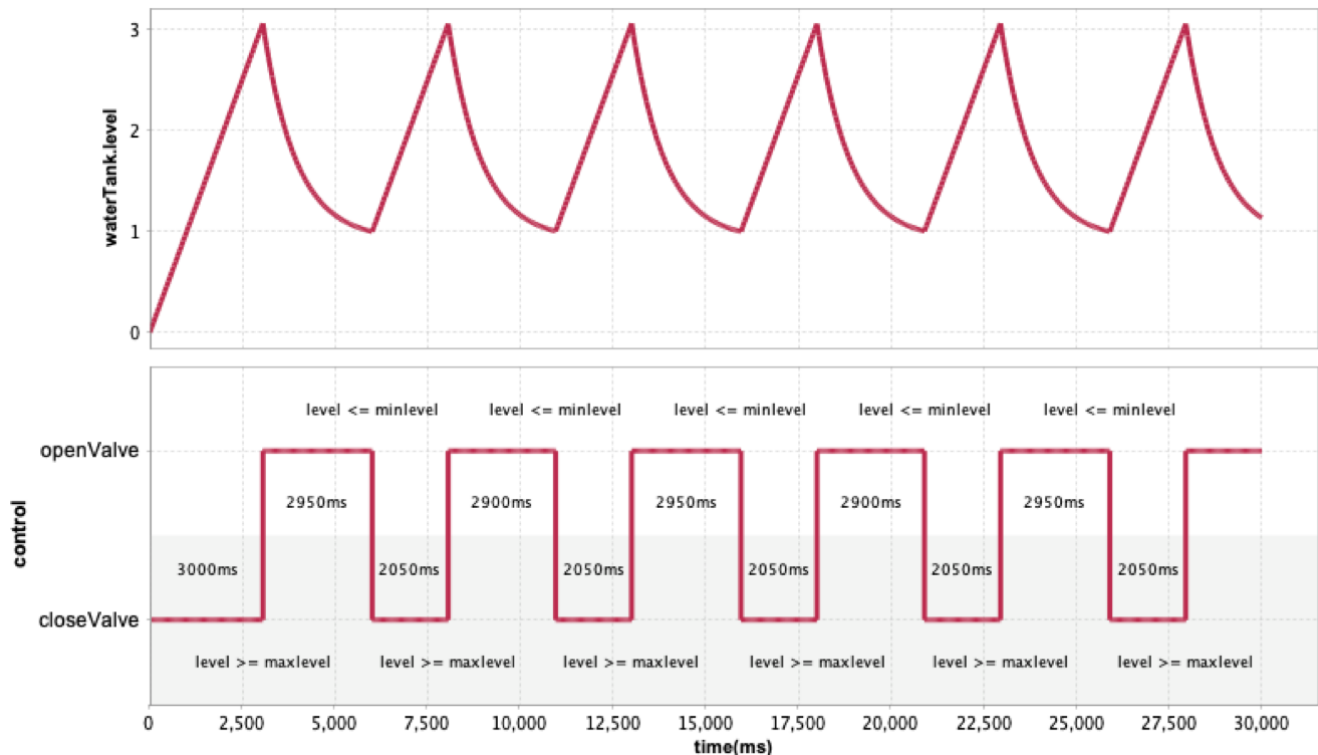
New features

- [See Time series and Timeline together](#)
- [Annotate Requirement and constraint failures in plots](#)
- [Running an instance with selected config](#)
- [Excluded Elements](#)
- [Creating "dummy" objects in Activities](#)
- [Connecting to an open Matlab workspace](#)
- [Current simulation time](#)

Simulation Enhancements

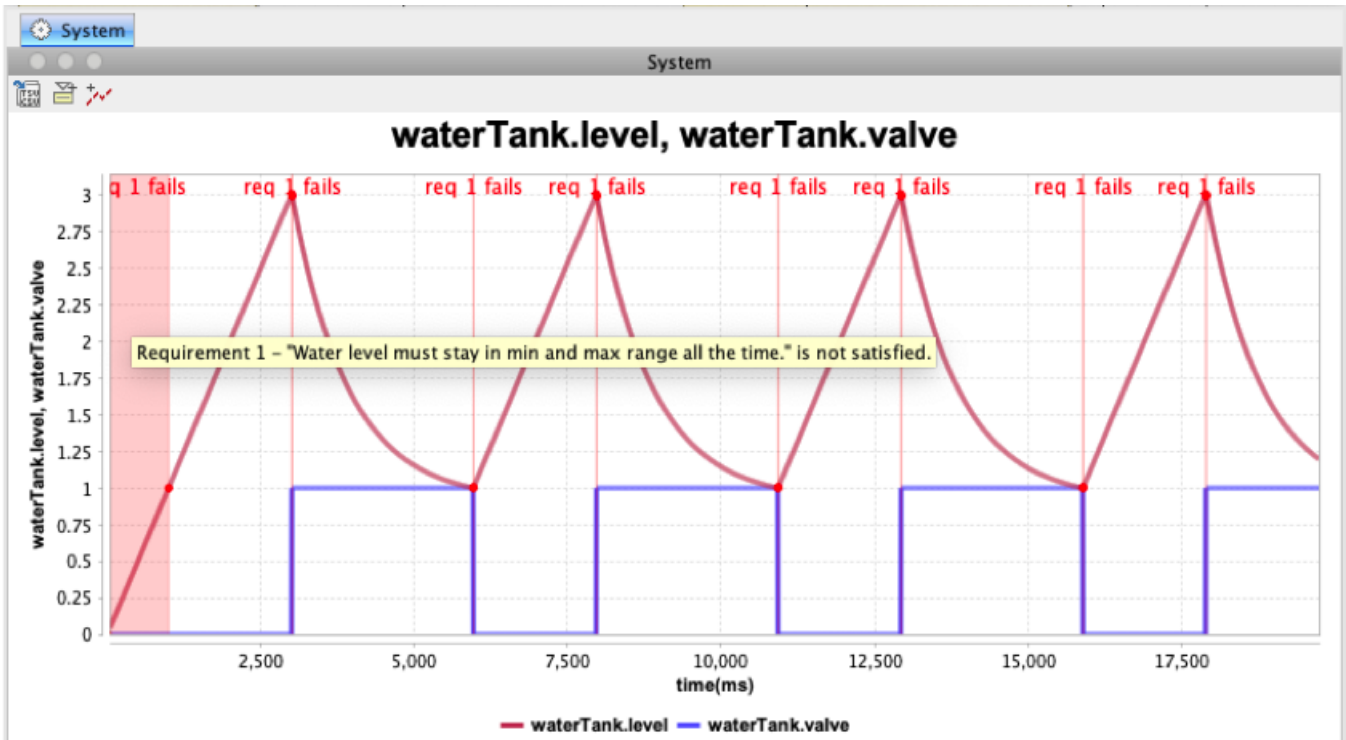
See Time series and Timeline together

Value changes can now be shown in Timeline plot. Simply select value properties along with parts to be represented there. This provides better insight into what the system was doing and how it impacts the value of interest at a particular moment.



Annotate Requirement and constraint failures in plots

Any constraint or requirement failure on select properties can now be annotated using a red background in the plot. Mousing over that region will reveal more details in a tooltip. To use this new feature, simply set the **Annotate Failures** option in the Time Series Chart configuration .



Running an instance with selected config

An Instance table becomes an even more powerful tool for design alternative evaluation with a new quick selection of predefined execution config.

Criteria			
Classifier: System		Scope (optional)	
#	Name	control : Controller	
1	empty	controller : Controller	waterTank : WaterTank
2	tankSysML	controller1 : Controller	wt_stm : WT_STM
3	pureSysML	controllerSTM : ControllerSTM	wt_stm1 : WT_STM
4	2fmus	waterTank.Control1 : WaterTank.Control	waterTank.TestSingleWaterTank : WaterTank.TestSingleV

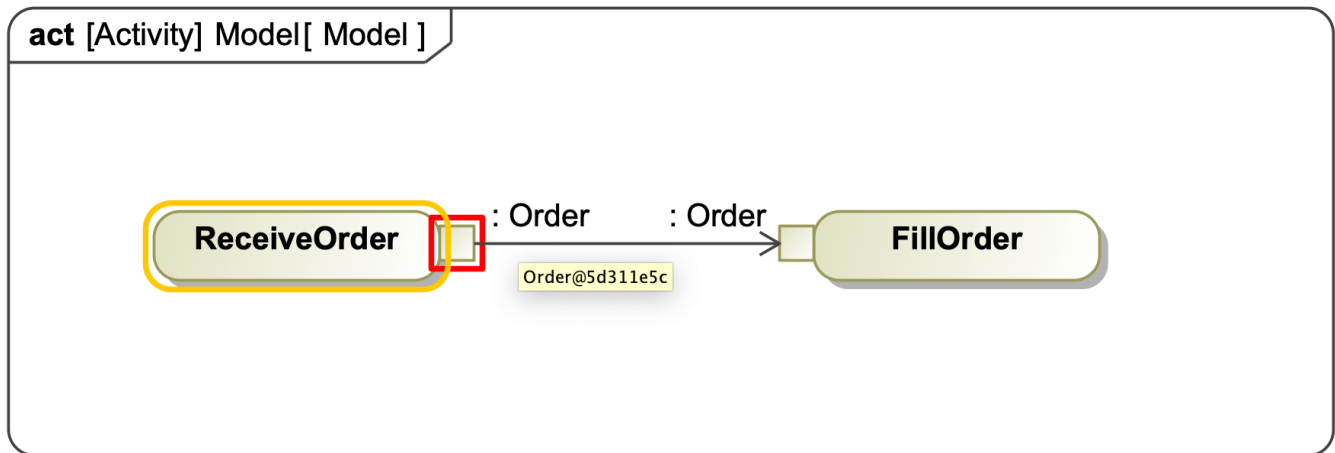
Excluded Elements

This new option in Simulation Config allows you to manage the scope of the model used for instantiation and simulation. You can now "disable" or exclude Packages, Types, Behaviors, Parts, Ports, Connectors or States.

[Back to top](#)

Creating "dummy" objects in Activities

This addition adds better support of draft dummy Activity execution and animation. If empty actions have typed output pins, CST would create dummy Objects of that type to simulate data token flow.



Connecting to an open Matlab workspace

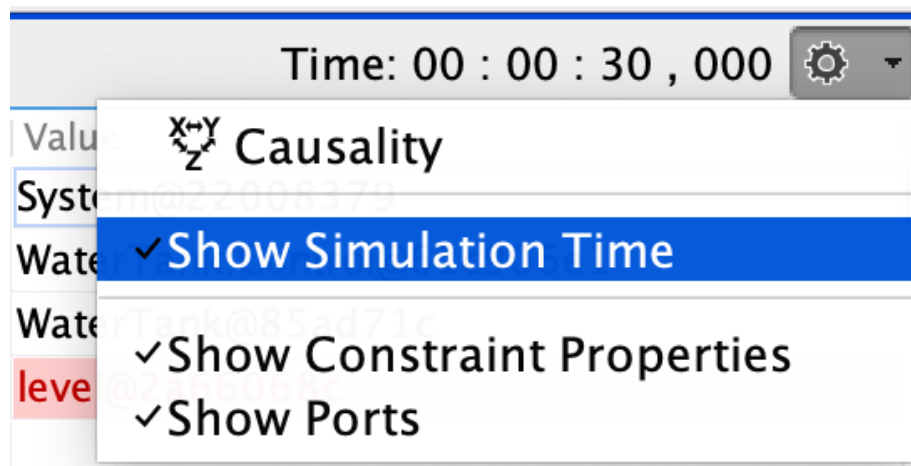
Magic Model Analyst can connect to an existing open Matlab workspace instead of starting a new one, if needed.

Simply share it from the Matlab side first, by running ">> matlab.engine.shareEngine"

CST will be able to access any variables defined in that workspace, in addition to a SysML model context.

Current simulation time

The new option in the Variables window allows you to turn on a simulation time label, visible during the entire execution.



[Back to top](#)