2022x Refresh1 Version News

Magic Model Analyst

Released on: November 18, 2022

Magic Model Analyst 2022x Refresh1 introduces a number of server-side simulation functionality improvements, such as a task manager for managing all currently running simulations, the ability to run server-side simulations from the Resources application, live Time Series Charts, and others. In addition, the Watch pane has been improved to allow adding runtime values directly from Internal Block Definition and Parametric Diagrams and editing them.

Server-Side Simulation Improvements

Enhanced Watch Pane

- Simulation Task Manager
- Running simulations via the Resources application
- Live Time Series Charts
- Other

Server-Side Simulation Improvements

Magic Model Analyst 2022x Refresh1 brings multiple improvements to the server-side simulation capability released in the previous version of the product.

Simulation Task Manager

Now you can conveniently view and manage all server-side simulations in the Task Manager. The Task Manager not only provides the information about all currently running and queued simulations but also allows you to terminate them and open the simulation UI window.

Task manager					
Collaborator	_		Simulation		
Active simulations currently running in the background		Open UI window Termi simula			
Project name	Run by	Run	Status		
CruiseControl_Widgets	Lukmor	Today 11:57 AM	Initialized		
D Cruise Control	💄 ingabe	Today 1:33 PM	Queued	•	
				CLOSE	

Simulation Task Manager.

Learn more about the Task Manager >>

Running simulations via the Resources application

Magic Model Analyst 2022x Refresh1 introduces a new way of simulating your models on the web. In addition to using REST API, a Python client, or Cameo Collaborator for Teamwork Cloud, you can now run server-side simulations via the Resources web application user interface as well. If a model has a Simulation Configuration and the specified UI, you will be able to run the simulation right from the resource's menu, and the UI window will open once the simulation is started.

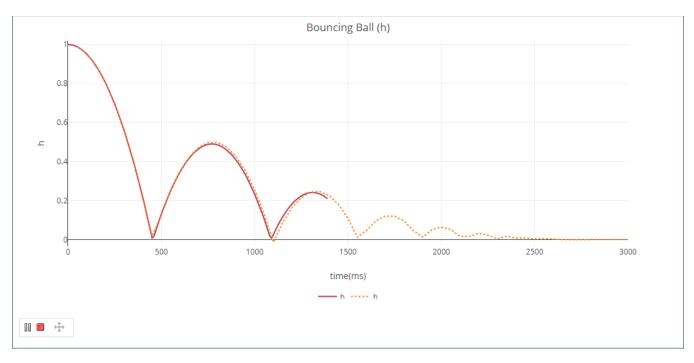
Resources	Q Resource search			∷ 8 :		
Root > Ingos						
Name	Classification	Modified by	Modified	Version		
Coffee Ma	achine	ingabe	Sep 2, 2022, 3:00:50	PM #2		
Cruise Co	ntrol	ingabe	Sep 5, 2022, 1:32:39	View resource details		
				Open in Resource Usage Map		
				Get project link		
				Edit resource details		
				Change assignments		
				Release locked elements		
				Generate revisions report		
				Move resource		
				Delete resource		
				Run simulation		
				Run simulation		

Running simulation via the Resources web application UI.

Learn more about simulation in the Resources application >>

Live Time Series Charts

From version 2022x Refresh1, server-side simulation supports live Time Series Charts. Once you start the simulation and the UI window opens, you can view the Time Series plot being updated in real-time as shown below.



Live Time Series Chart.

Learn more about live Time Series Charts >>

Other

• When you simulate a model with a UI mockup or Time Series chart, the UI window that opens during model execution now has a Control panel allowing you to start, pause, resume, or terminate the simulation.

	Money Added 0.0000 Change				
10 Cents 20 Cents 50 Cents	Turn On Coffee Brewing Time: s 1.2 2.0 2.5 2.0 2.0				
	Espresso Cappuccino Latte Macchiato 2 Espresso				
1 Euro 2 Euro Card	Heating 0.0000				
	Frothing Milk				
5 Euro 10 Euro					
II 🛛 🕂					

- Now the Timeline and Time Series Chart data can be exported to the HTML/CSV format and stored in the Documentation property of the result Instance Specification.
- Teamwork Cloud has a new Simulation Manager role which allows you to get and review simulation results as well as terminate the simulations executed by other users.

Enhanced Watch Pane

The Watch pane has been improved to allow adding runtime values directly from Internal Block and Parametric Diagrams. In addition, you can now edit the values added to the Watch pane and see how the simulation results change accordingly.

File Edit View Layout Diagra								×
			ffee Ma	achine Web 🗸 🗐				
Contain 🖄 Diagrams	Water Heatin		_					
Containment				· · · · · · · · · · · · · · · · · · ·		÷ ♀ → :⊟	• 🗉 • 🛛 Q	▷ -
E Model	Selection ibd (Block) Water Heating Element [Water Heating Element]						^	
🕀 🥐 Relations			boiler : Steam Boiler					
🗗 🗖 Data 🖶 🖾 00-User Needs	Tools 요 속 🚡 iT 🛤						·	
⊕ 🖾 01-Conceptual Model	Common		Tempe			ngIncrement : Real [1] Enter		
🕀 🖾 02-Functional Model	Internal Block Di			Specification				• •
🖻 🖾 03-Physical Model 🗄 🗂 34-Interfaces	Value Property	capaci	ty	Symbol Properties	Alt+Enter			
🖽 🖾 31-Coffee Machine	Part Property			Element Group	>			
🕀 🖾 32-Brewing Group E	Reference Prop	intake	_	Create Relation	>	Real [1]		•••
⊕ a 33-Water Heating E ⊕ a 34-Controller	C Constraint Prop	tmpDit	Be I	Select in Containment Tree	Alt+B	1		
Er ≧ 35-POS	Flow Property			Select in Structure Tree		Ľ,		
Physical Model	BR Bound Reference	tmpDit	ffv	Go To	>	Real [1]		• •
Physical to Function O4-Execution	📧 Classifier Behav		-	Display	>			
Index	Constraint Para	water	M	Refactor Related Elements	>			
	🕑 Proxy Port 🛛 👻	· · · · · · · · · · · · · · · · · · ·	-	Tools	>			
	y ^₄ Connector					: :		
	[−] / [−] Binding Conne			Edit Compartments				
	Item Flow			Delegate Port(s)				
	•			Stereotype				
		· · · · · · · · · · · · · · · · · · ·		Туре	Ctrl+T		· · · · · · · · · · · · · · · · · · ·	
				Multiplicity Kind	>			
				Feature Direction	>			
				Simulation	>			· ·
				Simulation		· · · ·	rl+Alt+X)	_
			-				akpoint(s)	
			•••••••				e Breakpoint(s)	
< >		<pre> : : : </pre>		: : : : :	: :	OQ Add to	Watch	>
	LL							
Simulation				·				ах
Simulation		Animati I						
● ● ● ● ≫ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	Y ⊙ 👜 ingger: 🔤 Y	Animation speed:	L:	Variables × 0 ⁰ Breakpoints	×			
တ္ တ္ တ္			1 1 1			Tim	e:00:00:00,000	φ.
Name/Expression	Value		Name		Value			Т
Water Heating Element.boiler.boilir	ngTemperature 83.0000			offee Machine [ldle]		Machine@25635	039	^
				: Brewing Group	Brewing	Group@6ff0713	3c	
			÷ P	: Water Heating Element	Water H	eating Element	@ddfc4e0	
				: Water Container		ontainer@74994		
				: Steam Dispenser [Idle]		ispenser@737d		
				: Milk Container		ntainer@4454f1 	/1	
				: Product Bin : Cup Holder		Bin@3a74367f		-
				. Cup Holder	Сирно	lder@f58cf62		~

Adding runtime values to the Watch pane directly from an Internal Block Diagram.

Learn how to add runtime values from Internal Block and Parametric Diagrams >>

Documentation

Magic Model Analyst 2022x Refresh1

News of earlier versions

- Magic Model Analyst 2022x
 Magic Model Analyst 2021x Refresh2
 Magic Model Analyst 2021x Refresh1
 Magic Model Analyst 2021x
 Magic Model Analyst 19.0 LTR SP4
 Magic Model Analyst 19.0 LTR SP3
 Magic Model Analyst 19.0 LTR SP2