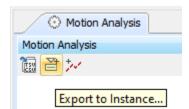
Exporting plots data to an instance model

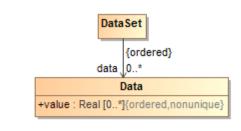
Magic Model Analyst also allows you to export plots data in a Time series chart to an Instance model. The model for exported plots data in the simulation profile comprises of DataSet and Data Classes. Whenever you export plots data to an instance model, Magic Model Analyst will create an InstanceSpecification of a DataSet Class. The slot of a data property will contain a list of InstanceSpecifications of the Data Class. The first instance on the list is an InstanceSpecification containing the time values while the second one is an InstanceSpecification containing the values that appear on the vertical axis of the first plot. If a Time series chart has more than one plot, the third InstanceSpecification on the list will be an InstanceSpecification containing the values of the second plot and so on.

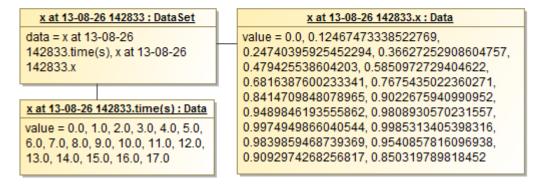
To export plots data to an instance model

1. Click the Export to Instance toolbar button of the Time series chart's panel whose values you want to export. The Element Selection dialog will open.



- 2. Select a package that will own the instance model you want to create.
- 3. Click the **OK** button. Magic Model Analyst will create the instance model containing the plots data in a Time Series Chart as shown in the following figure





The instance model containing the plots data in a Time series chart.

To auto-save plot values into model on every simulation run

- 1. Do one of the following
- · Double-click the Time series chart.
- Right-click the Time series chart and select Specification.

The Specification window will open as follows

Specification of TimeSeriesCha	art x-v-a plot	
Specification of TimeSeriesChart properties Specify properties of the selected TimeSeriesChart in the properties specification table. Choose the Expert or All options from the Properties drop-down list to see more properties.		
🖬 🔁 🔁 🗴	-v-a plot	
x-v-a plot		Properties: Standard 🗸
	□ TimeSeriesChart	
	Name	x-v-a plot
	Represents	Motion Analysis [Structure]
		V x : Distance-meter [Structure::Motion Analysis]
	Value	V v: Velocity-m/s [Structure::Motion Analysis]
		V a : Acderation-m/s2 [Structure::Motion Analysis]
	External CSV	
	Fixed Time Length	<undefined></undefined>
	Fixed Time Location	<undefined></undefined>
	Y Label	
	Title	Displacement (x), Velocity (v) and Acceleration (a) Plot
	Fixed Range	🔲 false
	Grid X	V true
	Grid Y	V true
	Min Value	0.0
	Max Value	0.0
	Plot Color	#BC334E
	Refresh Rate	1000
	Plot Result Location	Instance [Structure]
	Q , Type here to filter properties	
		Close Back Eorward Help

2. Click the witten beside the **Plot Result Location** property to edit its value. The **Plot Result Location** property value takes the name of the **Instance** to save the values, as in the following figure

Select Package		
Select, search for, or create an element Search for an element by using list or tree views. To find an element type text or wildcard (*,?) into the "Search by Name" input field. Search elements by their qualified names or use camel case when searching if the		
Ct Ct		
Apply Filter (Ctrl+Space) Y Creation Mode		
OK Cancel Help		

3. Start the simulation. When the simulation terminates, the plot values will be written to the **Instance specification** selected in the previous step, as in the following figure

🖃 🖾 Model
🗄 🛅 Structure
E
E Relations
E Displacement (x), Velocity (v) and Acceleration (a) Plot at 16-06-28 174142 : DataSet
E Displacement (x), Velocity (v) and Acceleration (a) Plot at 16-06-28 174142.a : Data
E Displacement (x), Velocity (v) and Acceleration (a) Plot at 16-06-28 174142.time(s) : Data
E Displacement (x), Velocity (v) and Acceleration (a) Plot at 16-06-28 174142.v : Data
Displacement (x), Velocity (v) and Acceleration (a) Plot at 16-06-28 174142.x : Data

Related pages

- Exporting plots dataExporting plots data to a CSV file