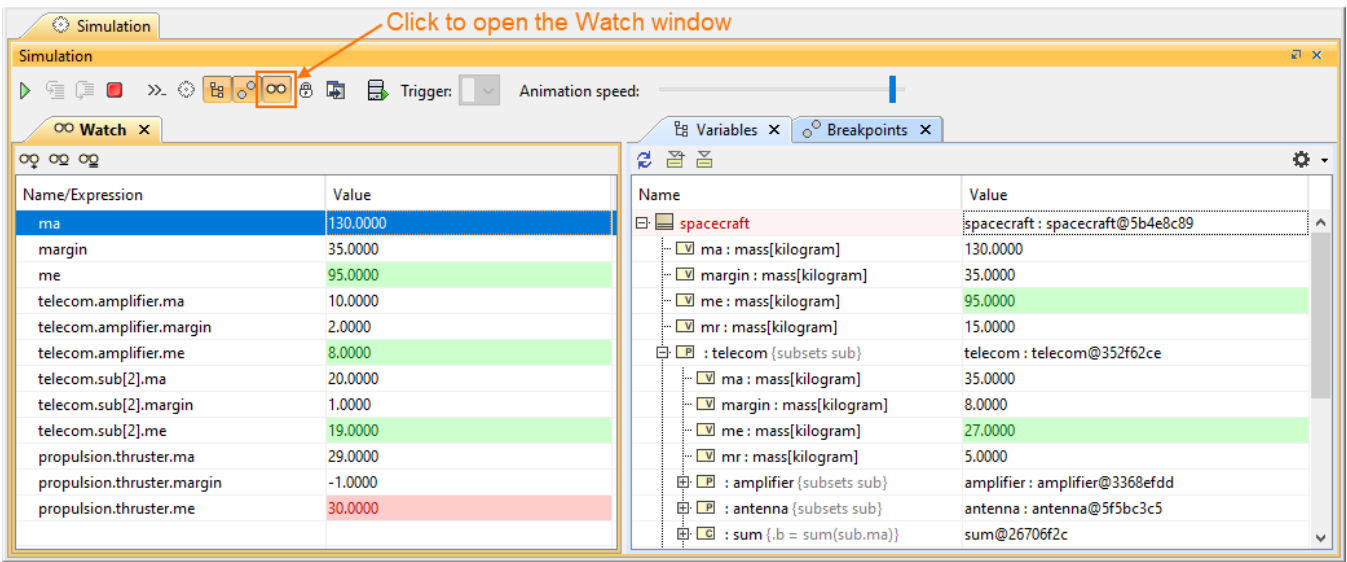


# Watch pane

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With the **Watch** pane, you can easily monitor selected properties and their expressions with runtime values while debugging. The **Watch** pane displays a flat list of selected runtime values during model simulation.



The Watch pane with expressions and their selected runtime values during model simulation.

For any projects with the default Simulation window settings, the **Watch** window will be opened by default in the same group as the **Variables** and **Breakpoints** as the last pane. If the user saves the project, the **Watch** window properties will be kept according to the recent settings like the other panes. Also,

you can manually open it by clicking  in the **Simulation** toolbar. This pane contains two columns:

- **Name/Expression** that can be edited. When you [add a Watch item](#), it will be shown in this column.
- **Value** that is read-only. When you add a Watch item, its value will be in this column. The **Value** column will be highlighted in red or green the same as in the **Variables** pane.



### Note

- If the **Simulation** toolbar is locked (in Monte-Carlo and Trade Study simulation), the **Watch** pane will be disabled to maximize the performance.
- When adding items at runtime, the value is evaluated and updated for all property changes and state changes on each clock tick. However, if

## Adding Watch items to the Watch pane

you add properties before runtime, the value is not be evaluated until the simulation runs.

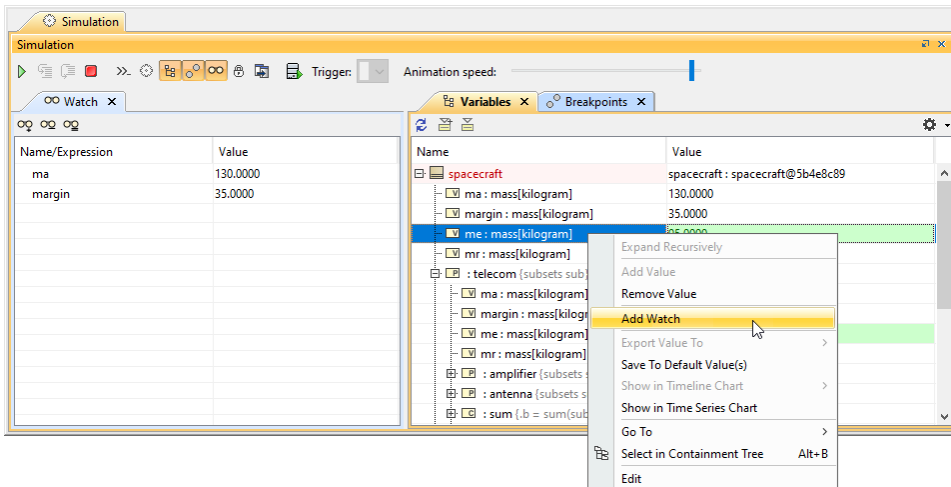
You can add Watch items to the Watch pane using the following:

- If the added item has no value, the value is displayed with <blank>.
- [Variables pane](#)
- [Console pane](#)
- [Watch pane](#)
- [SelectPropertiesConfig stereotype](#)

## Adding Watch items using the Variables pane


To add Watch items using the Variables pane

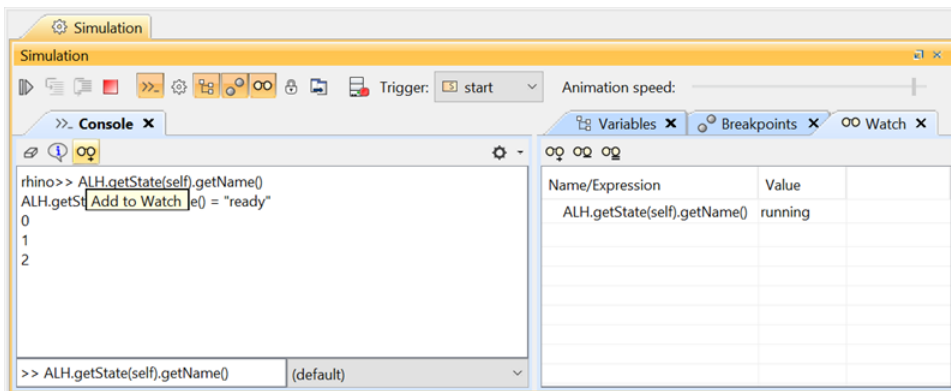
- In the Variables pane, right-click the property you want to add and select **Add Watch**.



## Adding Watch items using the Console pane


To add Watch items using the Console pane

1. In the input box (>>) of the Console pane, type properties and expressions you want to add to the Watch pane.
2. In the Console pane toolbar click . The properties and expressions in the input box (>>) are added to the Watch pane. Also, the simulation automatically saves the selected language in the list box.

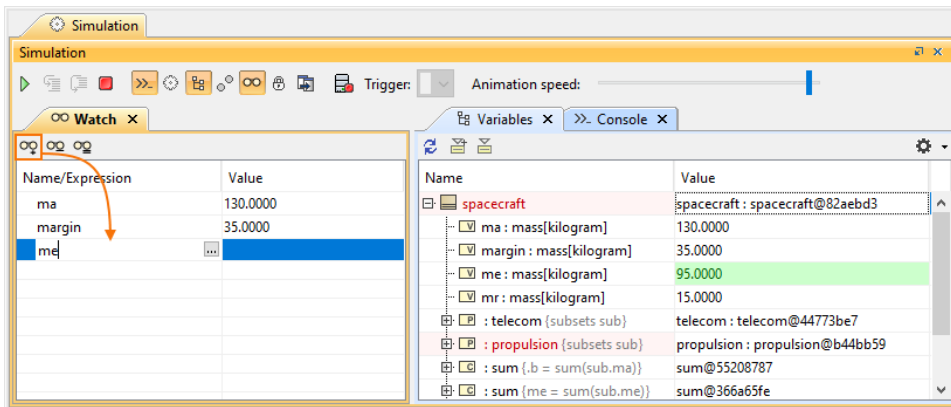


## Adding Watch items using the Watch pane

To add Watch items using the Watch pane

1. Do one of the following:
  - In the Watch pane toolbar, click .
  - In the Watch pane, click the first blank row.

2. Type the property or expression you want to add.



#### Note

- You can add a name of a property without using the root object because the context of the **Watch** pane is the main root context.
- A name of *Type* can also be used, if the name of a property does not exist, e.g., *spacecraft.telecom.ma = 35*.
- You can specify an index of *Multiplicity* starting at 1, e.g., *Trade-Study.MaxEfficiency.x[1] = 0.4761*.

## Adding Watch items using SelectPropertiesConfig stereotype

*Multiplicity* used will be shown as a flat list of an array of strings, e.g., *Trade-Study.MaxEfficiency.x = [0.4761, 0.4761,..., 0.4237]*.

To use a «SelectPropertiesConfig» as a predefined list of properties and add it to a [Simulation Configuration](#)

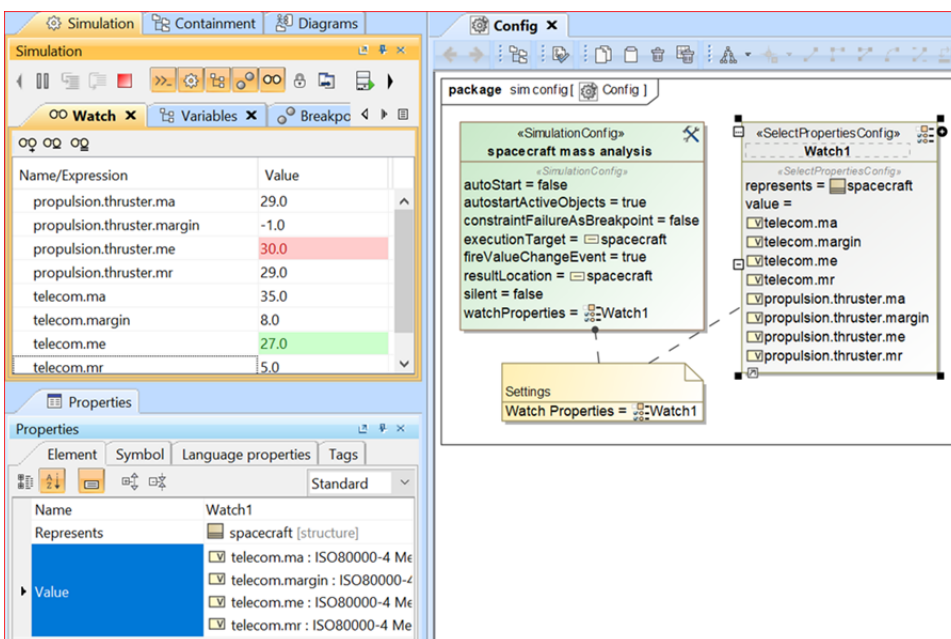
1. Create a Simulation Configuration diagram.
2. Add a «SelectPropertiesConfig» and «SimulationConfig» to the diagram.
3. Set *Name*, *Represents* (=object), and *Value* (=properties) of the «SelectPropertiesConfig».
4. Set *Watch Properties* (=«SelectPropertiesConfig») of the «SimulationConfig».



#### Note

The *Watch Properties* will be shown in **Expert & All** view mode.

5. When running the «SimulationConfig», the **Watch** pane will append the properties populated from «SelectPropertiesConfig». If some properties already exist, they will not be added to the **Watch** pane.



## Editing and removing Watch items

You can edit and remove any items by selecting the **Name/Expression** column on the **Watch** pane.



To edit a Watch item

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- Click an item to edit and press ENTER.

To remove Watch items from the Watch pane

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- Do one of the following:
  - To remove a single Watch item, select the item you want to remove and click .
  - To remove all Watch items, click .