


# Managing Containment Markings

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Containment Markings can be displayed on various element types via the **Update** action in the Data Markings & Classification shortcut menu. You can update Containment Markings of individual elements or multiple ones at the same time by selecting multiple elements or recursively via the parent element.

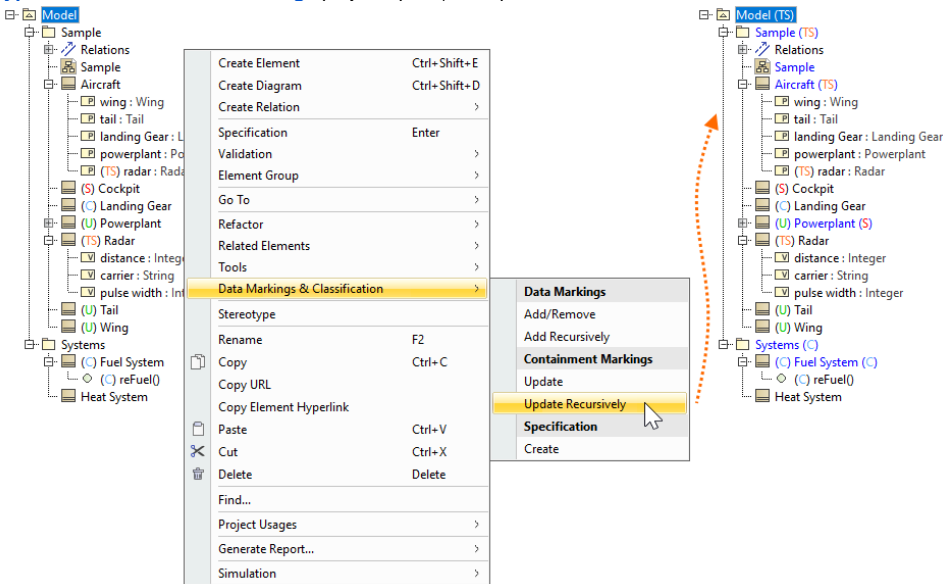


- To display Containment Markings, you need to specify what element types can have Containment Markings displayed via the [Element Types](#) with [Containment Markings](#) project option.

## Updating Containment Markings on multiple elements recursively via the highest parent element of the project (recommended)

To update Containment Markings on multiple elements recursively via the highest parent element of the project, use the **Update** / **Update Recursively** actions to either update the existing Containment Markings or to display them if the element does not yet have them displayed.

- You need to update the parent element's Containment Markings if any of the child elements' Data Markings change. Otherwise, the [Invalid Containment Markings](#) validation rule is triggered.
1. Right-click the highest parent element of the project. In the shortcut menu, select **Data Markings & Classification**.
  2. In the Containment Markings section, select **Update Recursively**.
- The Containment Markings of the element on which the action is executed and the elements owned by it (if their type is specified in the [Element Types with Containment Markings](#) project option) are updated.

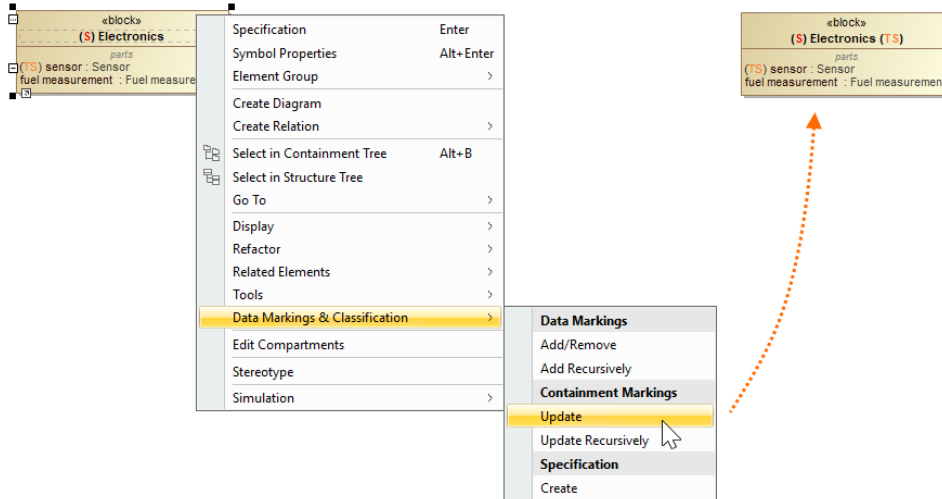


## Updating Containment Markings on a single element

To update Containment Markings on a single element

1. Right-click an element or its symbol. In the shortcut menu, select **Data Markings & Classification**.

- In the Containment Markings section, select **Update**.  
The element's up-to-date Containment Markings are displayed next to the element name.

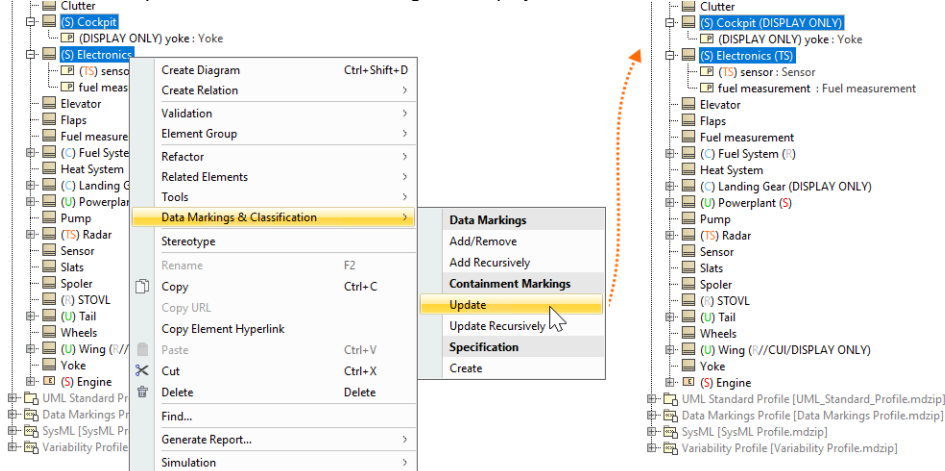


## Updating Containment Markings on multiple elements

To update Containment Markings on multiple elements

- Hold the Ctrl key and select the elements or their symbols whose Containment Markings you want to update.
- Right-click one of the selected elements/symbols. In the shortcut menu, select **Data Markings & Classification**.
- In the Containment Markings section, select **Update**.

The elements' up-to-date Containment Markings are displayed next to the element names.



## Updating Containment Markings recursively via the parent element

To update Containment Markings recursively via the parent element

- Right-click an element or its symbol. In the shortcut menu, select **Data Markings & Classification**.

2. In the Containment Markings section, select **Update Recursively**.  
The Containment Markings of the element on which the action is executed and the elements owned by it (if their type is specified in the [Element Types with Containment Markings](#) project option) are updated.

The screenshot displays the SysML Modeler interface with the 'Data Markings & Classification' menu open. The menu options include: Create Element (Ctrl-Shift-E), Create Diagram (Ctrl-Shift-D), Create Relation, Specification (Enter), Validation, Element Group, Go To, Refactor, Related Elements, Tools, Data Markings & Classification (highlighted), Stereotype, Rename (F2), Copy (Ctrl+C), Copy URL, Copy Element Hyperlink, Paste (Ctrl+V), Cut (Ctrl+X), Delete, Find..., Project Usages, Generate Report..., and Simulation. A secondary menu is also visible, showing 'Data Markings' (Add/Remove, Add Recursively), 'Containment Markings' (Update), 'Update Recursively' (highlighted with a mouse cursor), 'Specification', and 'Create'. The background shows a SysML model diagram with a 'Radar' element and its associated 'Radar' and 'Radar' (TS) elements.

## Updating Containment Markings on multiple elements recursively via the parent element

To update Containment Markings on multiple elements recursively via the parent element

1. Hold the Ctrl key and select the elements or their symbols whose Containment Markings you want to update.
2. Right-click one of the selected elements/symbols. In the shortcut menu, select **Data Markings & Classification**.
3. In the Containment Markings section, select **Update Recursively**.  
The Containment Markings of the elements on which the action is executed and the elements owned by them (if their type is specified in the **Element Types with Containment Markings** project option) are updated.

The figure illustrates the application of the 'Update Recursively' option. On the left, a context menu is shown with 'Update Recursively' selected. On the right, the model structure is updated, showing the 'Update Recursively' option applied to the 'Sample' element, resulting in the 'Sample' element being marked as '(TS)' and its children being updated accordingly.