

# Generating an HTML table from a UI table, Time series chart, and CSV export configuration

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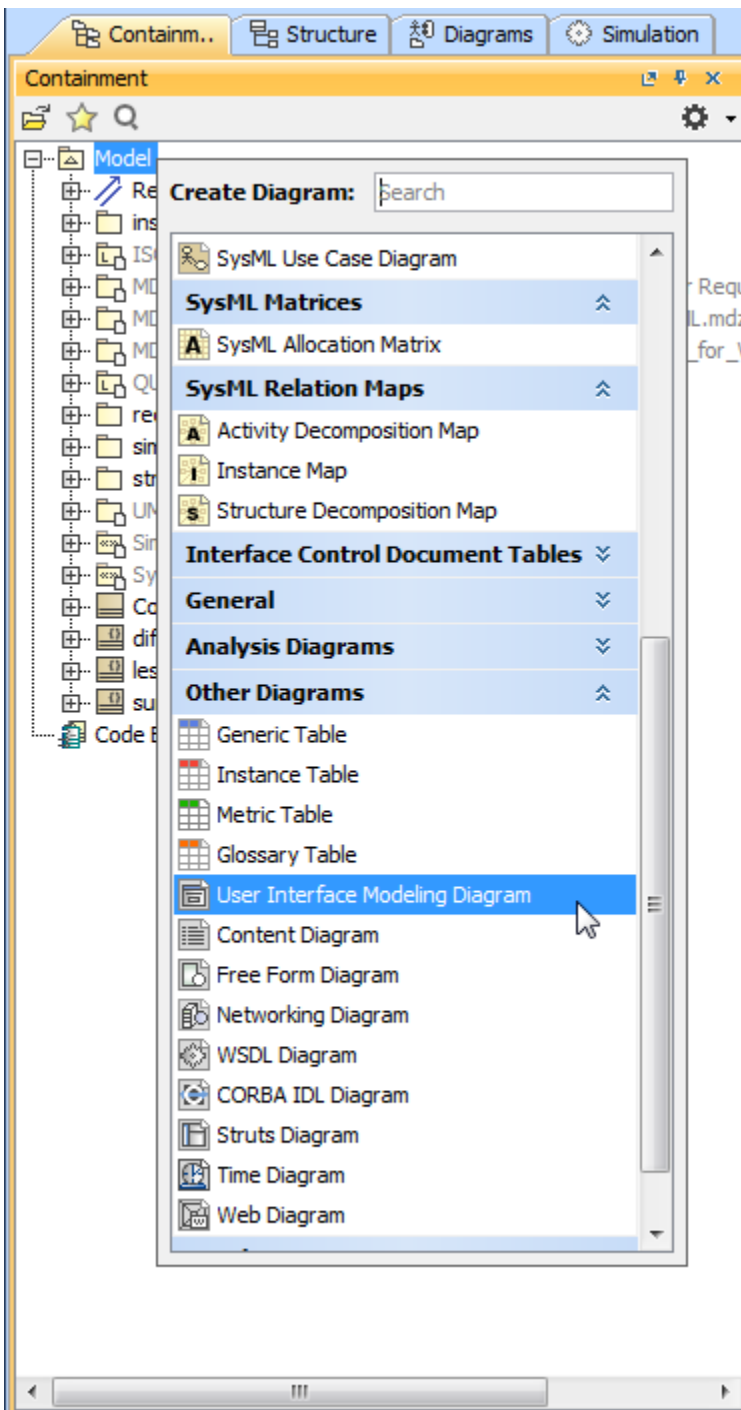
## Generating an HTML table from a UI table

This feature of Cameo Simulation Toolkit enables you to export MagicDraw HTML tables in UI modeling diagrams to HTML5, allowing them to be viewed in a web browser. The sample model used on this page, [SpacecraftMassRollup](#), demonstrates how to create a User Interface table in the User Interface Modeling diagram, generate HTML, run the simulation, and view the UI table in HTML5 in your web browser. You can download [SpacecraftMassRollup](#) at the end of this page.

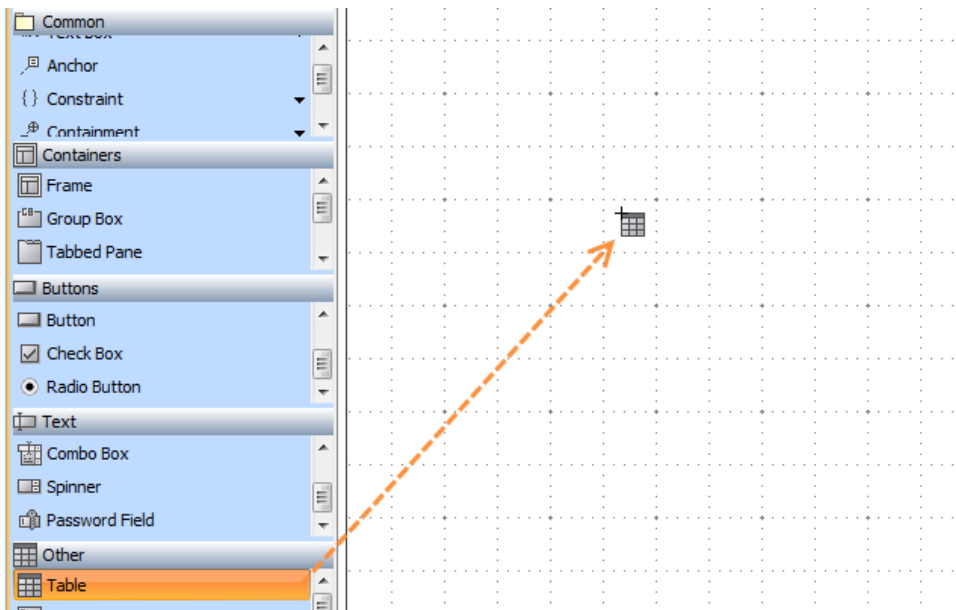
To generate an HTML table from a UI table component

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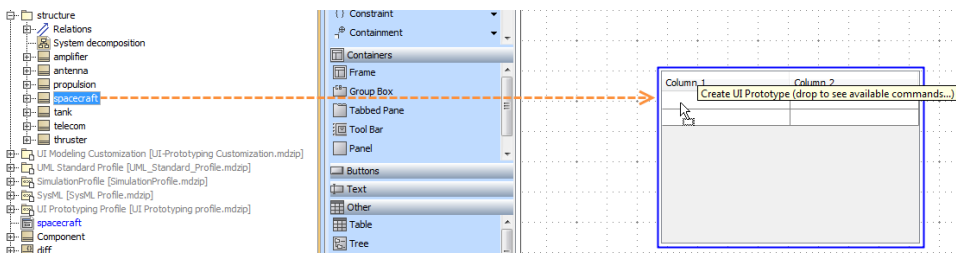
1. Open [SpacecraftMassRollup](#) from the MagicDraw installation file: *folder\samples\simulation*.
2. Right-click the Model element in the containment tree. Select **Create Diagram > Other Diagrams > User Interface Modeling Diagram**.



3. Drag a UI table component onto the newly created diagram.

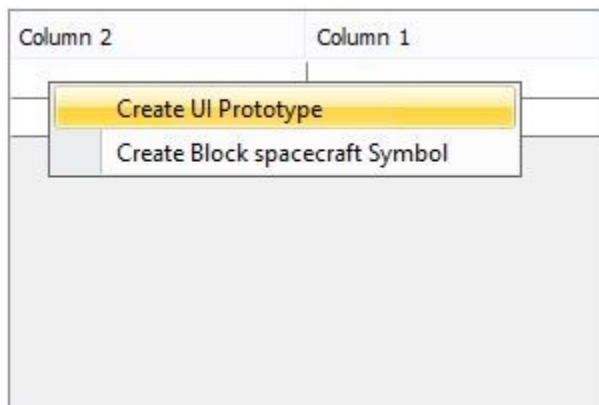


4. Drag the **spacecraft** Block from the **Structure** Package in the Containment tree to the table.



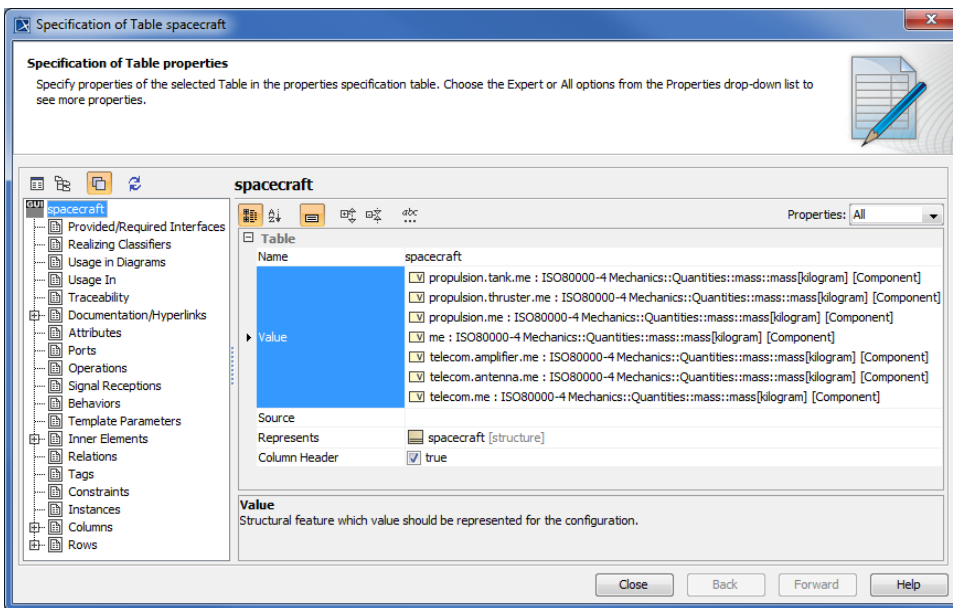
5. Select **Create UI Prototype**. The table headers will change from **Column 1** and **Column 2** to **Name** and **Value**.

**Tip**  
If you drag the **spacecraft** Block to the table quickly, the column name will change automatically, without having to select **Create UI Prototype**.

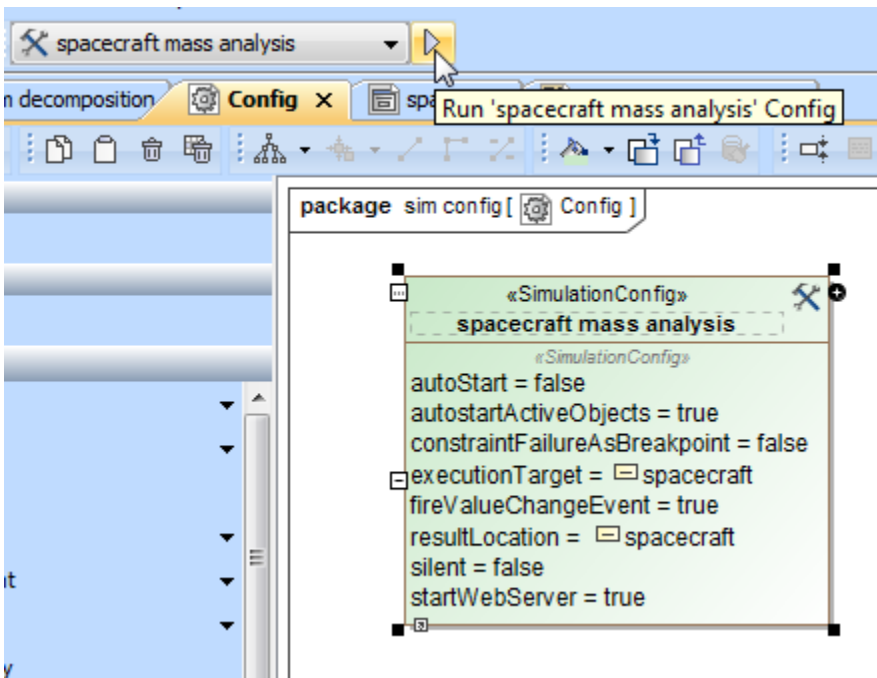


Selecting the **Create UI Prototype** menu that appears after dragging the spacecraft Block to the table.

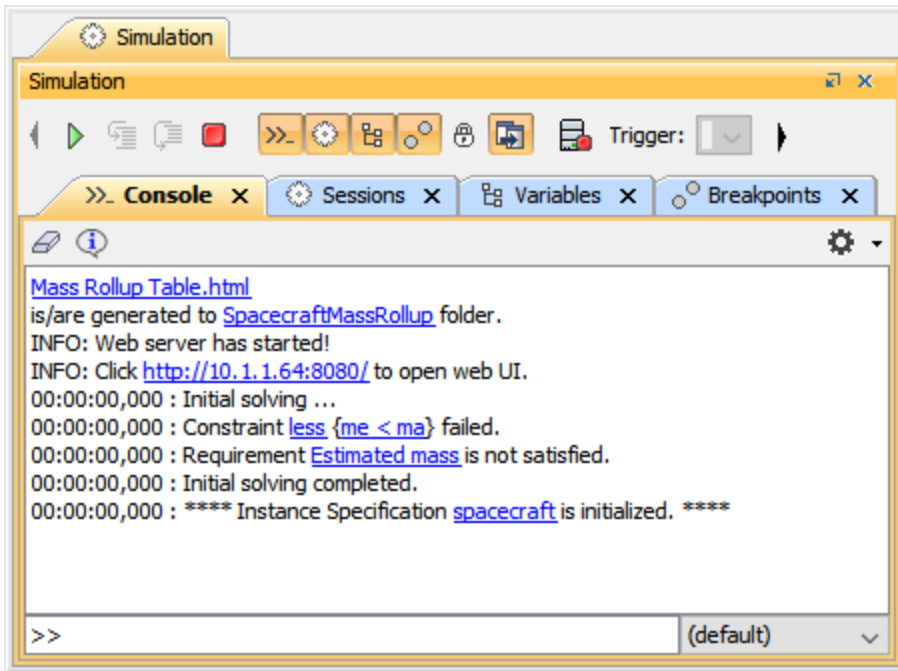




9. Close the Specification window.
10. Run the *spacecraft mass analysis* Simulation Configuration. The Console messages will appear.

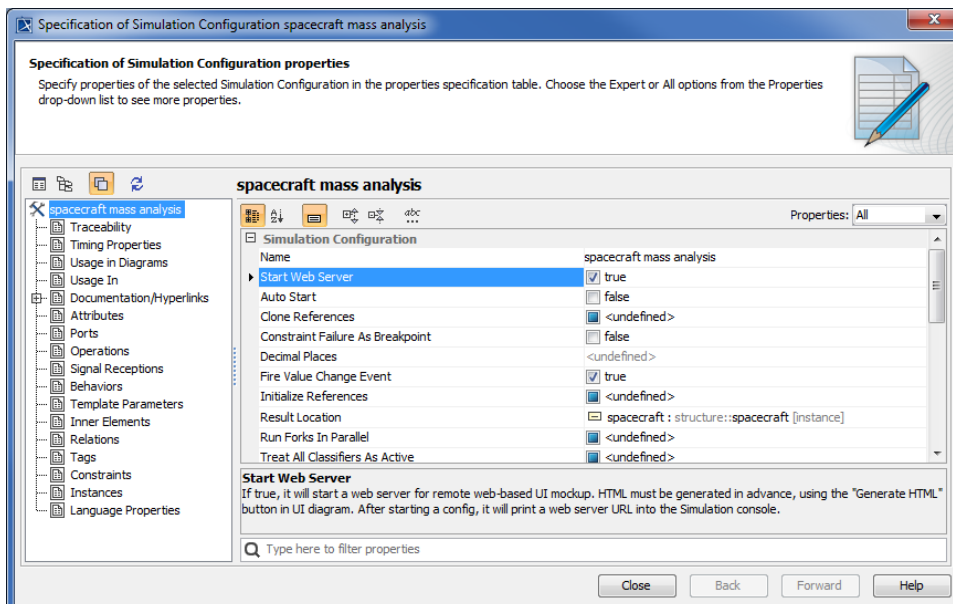


Running the spacecraft mass analysis Simulation Configuration.



The Console messages appearing in the Simulation Console with the filter Options set to Warn.

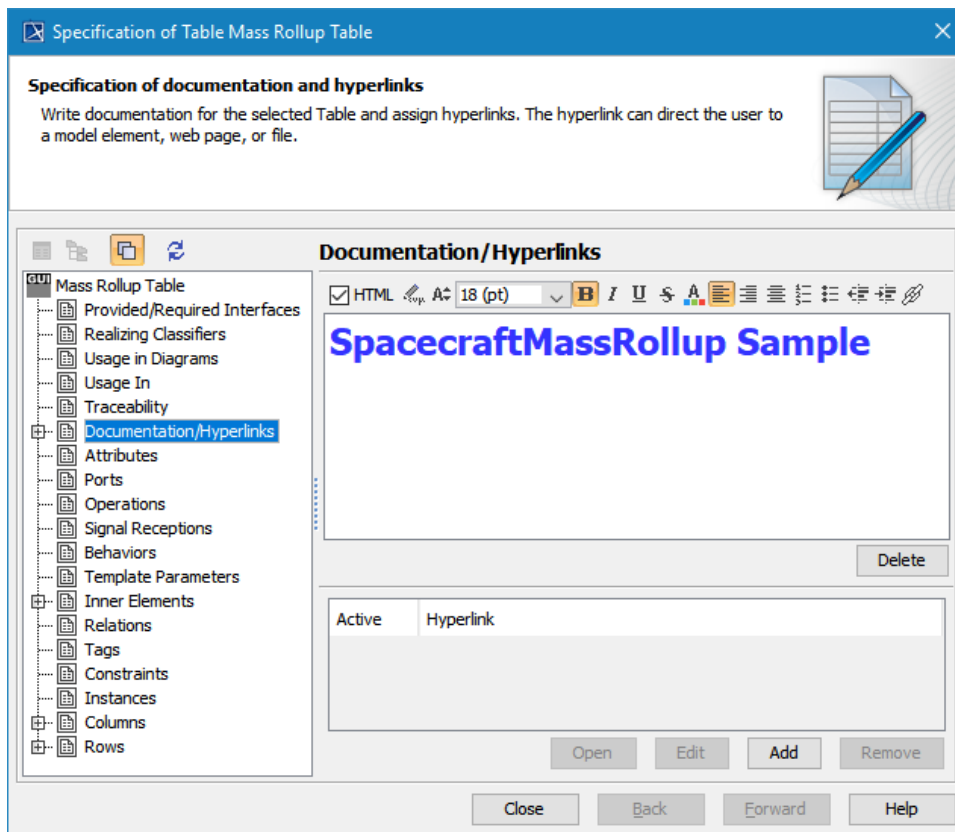
- Note that a simulation web server has started. You can open the Specification window of Simulation Configuration to see the **Start Web Server** (true) option.



- Click the HTTP link, e.g., <http://10.1.1.64:8080/> in the **Console** pane to view the simulation in real-time in your browser.

**Note**  
The preferred browser is **Google Chrome**.

- You can edit the **Documentation/Hyperlink** tag from the UI table's Specification window and run the simulation again. It will show the table's descriptions. See the following two figures



Changing the Documentation/Hyperlinks tag will reflect on the table's descriptions in the browser.

Name	Value	Status
telecom.amplifier.me	8.0000	✗ ↑↓
telecom.antenna.me	19.0000	✗ ↑↓
telecom.me	27.0000	✗ ↑↓
propulsion.tank.me	38.0000	✗ ↑↓
propulsion.thruster.me	30.0000	✗ ↑↓
propulsion.me	68.0000	✗ ↑↓
me	95.0000	✗ ↑↓

The changes to the Documentation/Hyperlinks tag appearing as the HTML table's description.

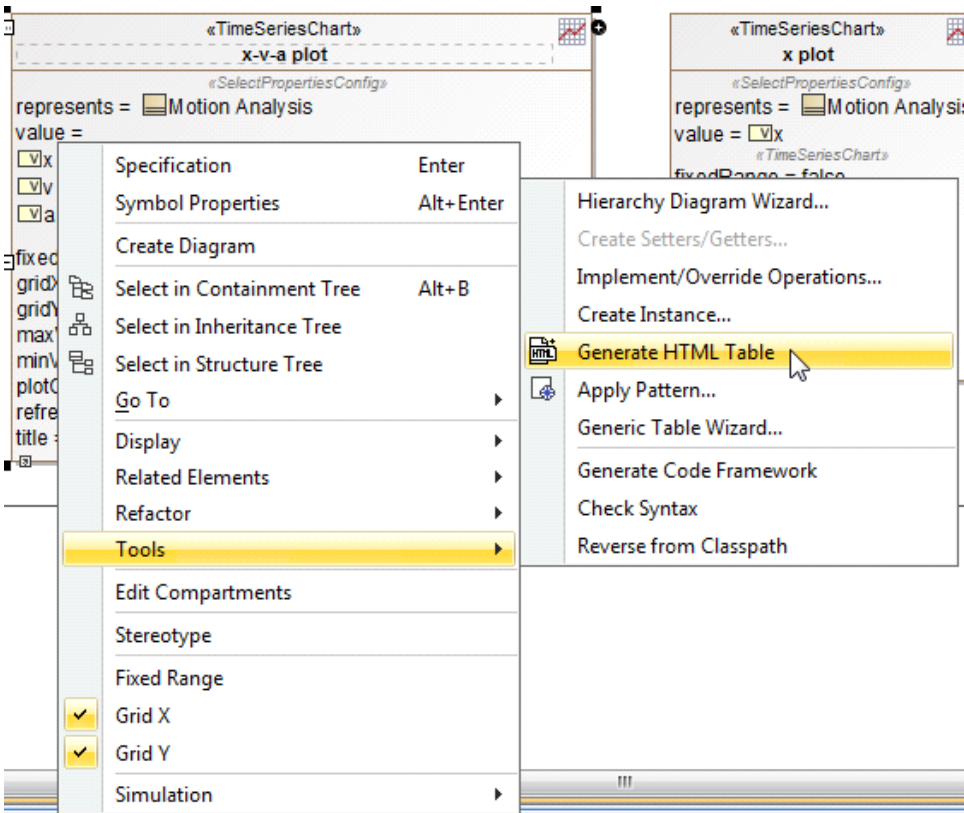
14. You can edit the values from the web browser page. The simulation engine will automatically pick the values up and re-calculate. In addition, [verification status of runtime values](#) is supported and shown that there is constraint failure, which is colored in red.

## Generating an HTML table from a Time series chart and CSV export configuration

An HTML table can also be generated from a Time series chart and CSV export configuration.

To generate an HTML table from either a Time series chart or a CSV export configuration

1. Right-click a Time Series Chart or a CSV Export configuration and choose **Tools > Generate HTML Table**.



2. This will generate an HTML file, which can be viewed either online or offline. A message stating, "INFO: HTML table(s) is/are generated to the C:\Users\Downloads\CoffeeMachine\_test1 folder, " in the Console pane will appear in the **Simulation Console** pane.

## Sample model

The model used in the figures on this page is the **SpacecraftMassRollup** sample model that comes with your modeling tool.

To open this sample, do either of the following

- Download [SpacecraftMassRollup.mdzip](#).
- Find it in the modeling tool <modeling tool installation directory>\samples\simulation\SpacecraftMassRollup.mdzip.