

# Calculating metrics in the Metric Table

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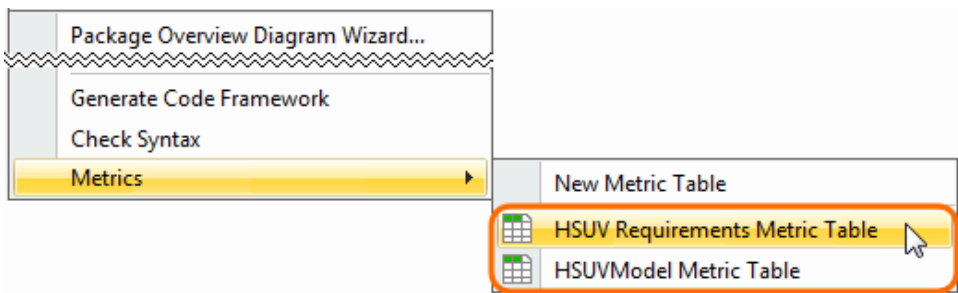
Once you have created the Metric Table, which represents the metrics calculated at the time you created, you can make further calculations and track the evolution of your model development.

If you need to append new metrics to your table, you can easily open it.

## Opening the Metric Table

To open the Metric Table

1. In the [Containment tree](#), right-click the element whose Metric Table you need to append.
2. On the shortcut menu of the element, click **Tools > Metrics** and then select the Metric Table you need to append.






The selected Metric Table opens. Now you are ready to calculate new metrics.



## Calculating new metrics

To calculate new metrics

1. In the Metric Table, select the row. Below that, you need to add a row with newly calculated metrics.
2. Do one of the following:

- On the Edit toolbar, click  **Calculate Metrics** and then select **Calculate New Metric**  from the open menu.
- Right-click the selected row and then click **Calculate New Metric**  on the shortcut menu.

The new metrics are calculated and represented in the table below the selected row.


 **Excluding auxiliary resources from validation-based metrics calculation**  
By default, validation-based metrics are calculated in used read-only projects (auxiliary resources) as well. To exclude auxiliary resources from metric calculation scope, click  in the Metric Table toolbar and select the **Exclude Elements from Used Read-Only Projects** option.

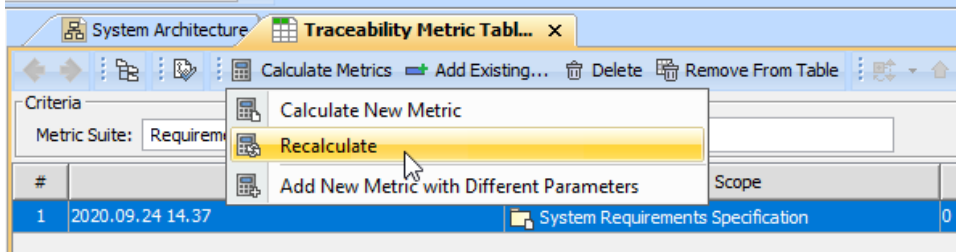
## Recalculating metrics

To recalculate metrics

1. In the Metric Table, select the row whose metrics you need to recalculate.

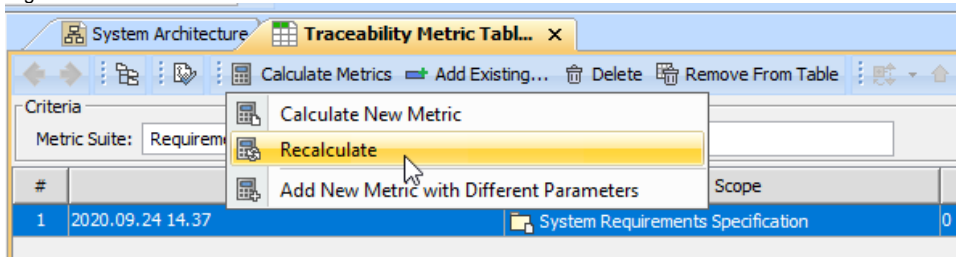
2. Do one of the following:

- On the Edit toolbar, click  **Calculate Metrics** and then select **Recalculate**



from the open menu.

- Right-click the selected row and then click **Recalculate**






on the shortcut menu.


The new metrics are calculated and represented in the table, instead of the selected row.

## Calculating new metrics with different parameter values


To calculate new metrics with different parameter values

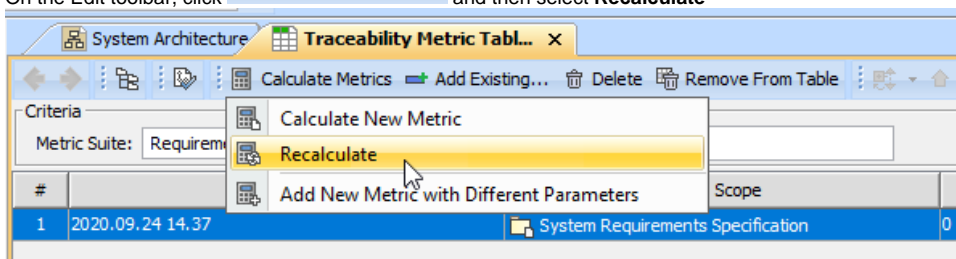
- In the Metric Table, select the row. Below that, you need to add a row for representing newly calculated metrics.
- Do one of the following:

- On the Edit toolbar, click  **Calculate Metrics** and then select **Add New Metric with Different Parameters**  from the open menu.
  - Right-click the selected row and then click **Add New Metric with Different Parameters**  on the shortcut menu.
3. A new row with copied parameters is added to the Metric table.

 If the new row is empty, it might be that you haven't selected any row. You may continue the procedure.

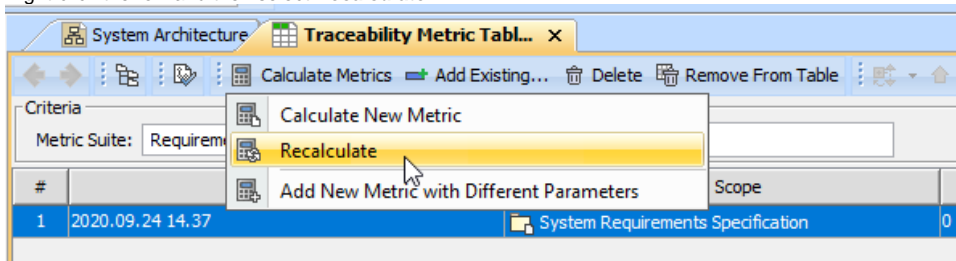
- Change parameter values.
- Select the newly created row and do one of the following:

- On the Edit toolbar, click  **Calculate Metrics** and then select **Recalculate**



from the open menu.

- Right-click the row and then select **Recalculate**



from the shortcut menu.

The new metrics are calculated according to the specified parameter values.

## Calculating metrics when using multiple models

Metrics can be calculated when the model is stored in multiple projects. For example, the requirements are stored in the used project, and the blocks appears in the main project. If you want to calculate how many requirements are covered by system architecture blocks, you should run the calculations in the main project. Because in the main project you can see all model elements.

To calculate metrics when using multiple model

1. In the [Containment tree](#), right-click the Requirements Package from the used project, select **Tools > Metrics > New Metric Table**. In the **Create Metric Table** dialog make sure, the scope and the Metric Table Owner is the same Package, as shown in the figure below. Click **OK**.



Initially the scope for calculations is the same package where you choose to store the metrics. Therefore, the metrics may be not calculated on the metrics table creation.

Criteria

Metric Suite: Requirement Satisfaction... Filter:

#	Date	Scope
1	2020.10.27 08.30	Traceability

Create Metric Table

Create metric table

Select the metric suites to use for calculating metrics of your model. The results of the calculations, that is, the metrics, will be added to the newly created metric table.

Metric Table Name: Traceability Metric Table 1

Metric Table Owner: Traceability...

Requirement Metric Suites (Obsolete)

Requirement Coverage (Treat Owner As Grouping Element) ☐ false

Requirement Coverage (Treat Owner As Requirement) ☐ false

Requirement Coverage (Treat Owner As Grouping Element)

Requirement Derivation ☐ false

Requirement Refinement ☐ false

Requirement Satisfaction ☐ false

Requirement Verification ☐ false

Requirement Coverage (Treat Owner As Requirement)

Requirement Refinement ☐ false


Requirement Satisfaction ☒ true

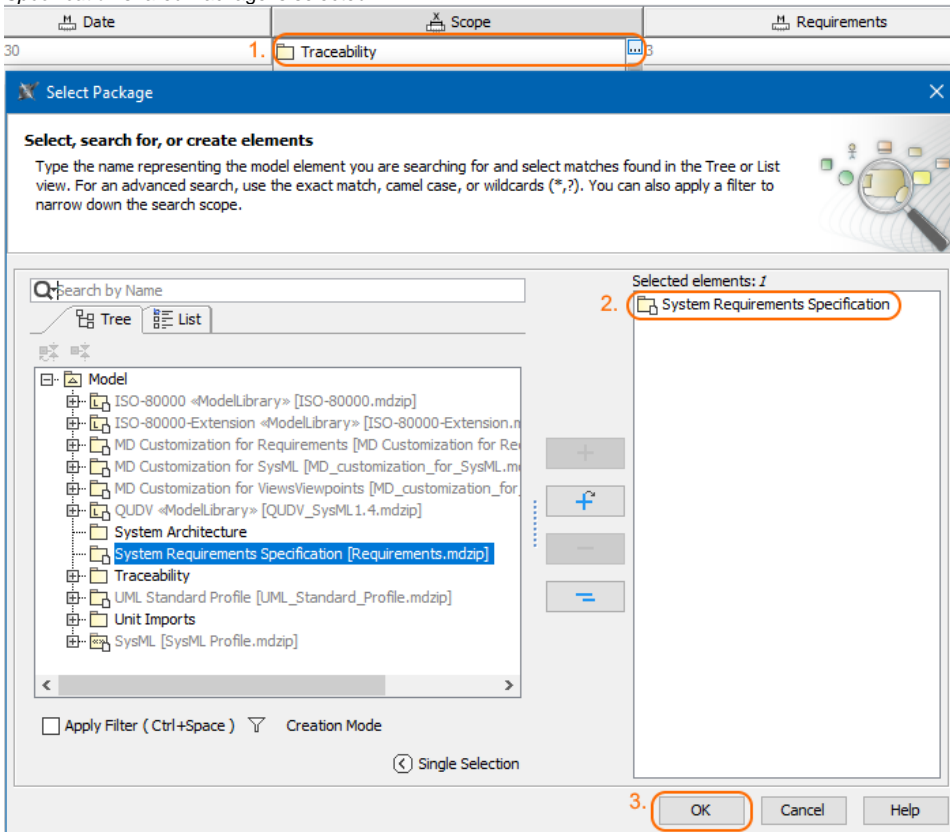
Requirement Verification ☐ false

Clear All

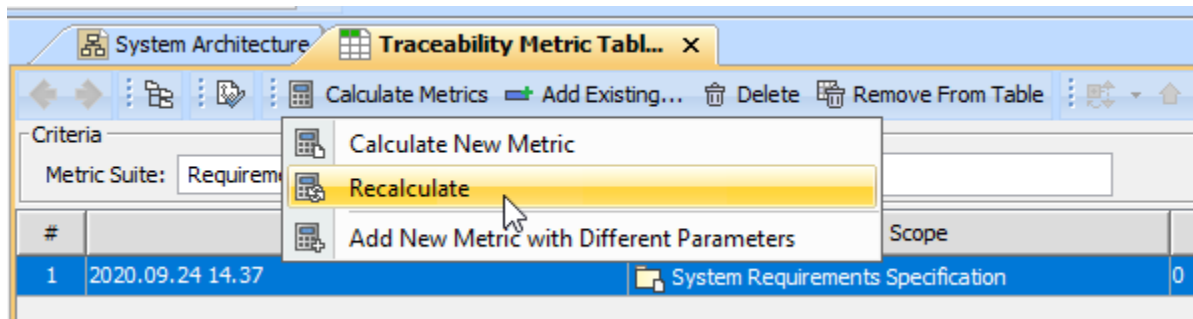
OK

Cancel

2. Click  and in the **Select Package** dialog, choose another scope and click **OK**. As shown in the figure below, the *System Requirements Specification* shared Package is selected.



3. Re-calculate metrics of the first row.



The metrics are calculated by using multiple projects.