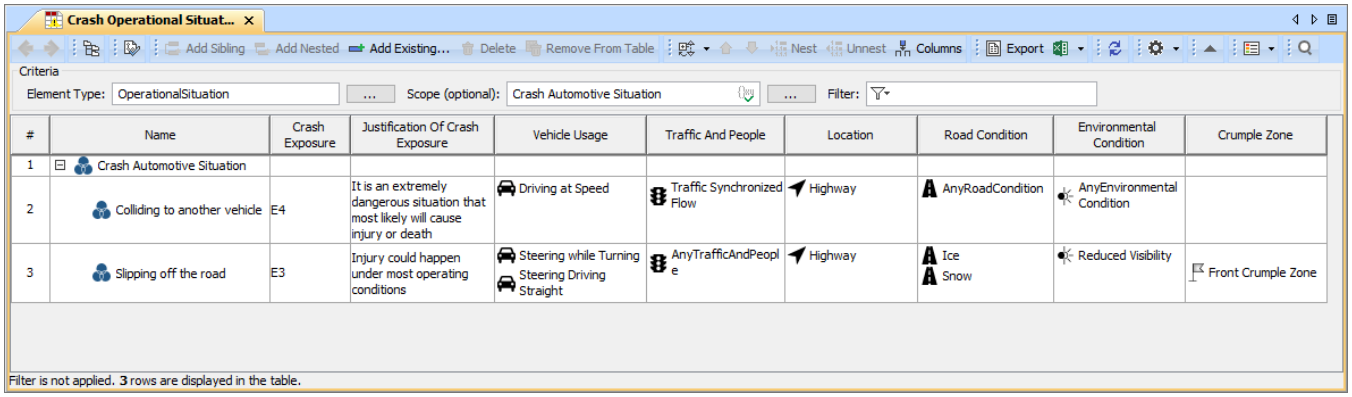
Generic Safety Table

On this page

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- Creating elements in a Generic Safety Table
- Case study: Creating Generic Safety Table for a custom element type

You can use a Generic Safety Table to display all relevant elements depending on the selected scope as shown in the following figure. An element added as a scope element should extend the ISO 26262 library (e.g., Typical Automotive Situation, Accident Scenario, Hazardous Event, Automotive Effect).



#	Name	Crash Exposure	Justification Of Crash Exposure	Vehicle Usage	Traffic And People	Location	Road Condition	Environmental Condition	Crumple Zone
1	Crash Automotive Situation								
2	Colliding to another vehicle	E4	It is an extremely dangerous situation that most likely will cause injury or death	Driving at Speed	Traffic Synchronized Flow	Highway	AnyRoadCondition	AnyEnvironmental Condition	
3	Slipping off the road	E3	Injury could happen under most operating conditions	Steering while Turning Steering Driving Straight	AnyTrafficAndPeople	Highway	Ice Snow	Reduced Visibility	Front Crumple Zone

An example of a Generic Safety Table

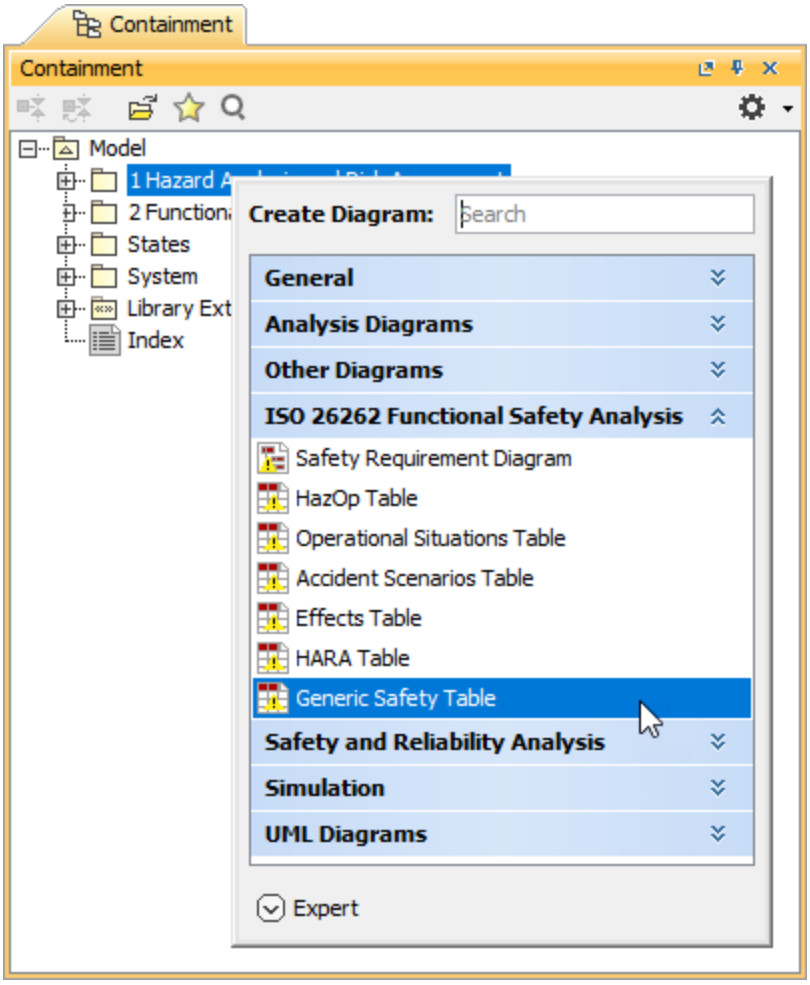
Creating a Generic Safety Table

You can create a Generic Safety Table as described below.

To create a Generic Safety Table

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1. In the Containment tree, select the element that you want to be the owner of the table.
2. Do one of the following:
   - In the main menu, go to **Diagrams** > **Create Diagram**, then select **Generic Safety Table** in the open dialog.
   - In the Containment tree, right-click the owner of the table, select **Create Diagram** and select **Generic Safety Table** in the open dialog.



3. When the table is created, type the name of the table and press Enter.
4. Click ... next to the **Element Type** box.
5. In the **Select Element Type** dialog, select the types of elements you want to display in the table, and click **OK**.
6. Click ... next to the **Scope** box.
7. On the left side of the **Select Scope** dialog, select the scope element of the table, click + to add the element to the selected elements area, and click **OK**.
8. Add the desired columns to the table (by default, a Generic Safety Table has only the *Name* column).

Creating elements in a Generic Safety Table

There are two ways to create elements for a Generic Safety Table: you can do it right in the table or in the Containment tree. If you create an element in the Containment tree and it falls under the scope of a Generic Safety Table, the element is automatically added to the table. If you want to create an element right in a Generic Safety Table, follow the steps below.

To create an element in a Generic Safety Table

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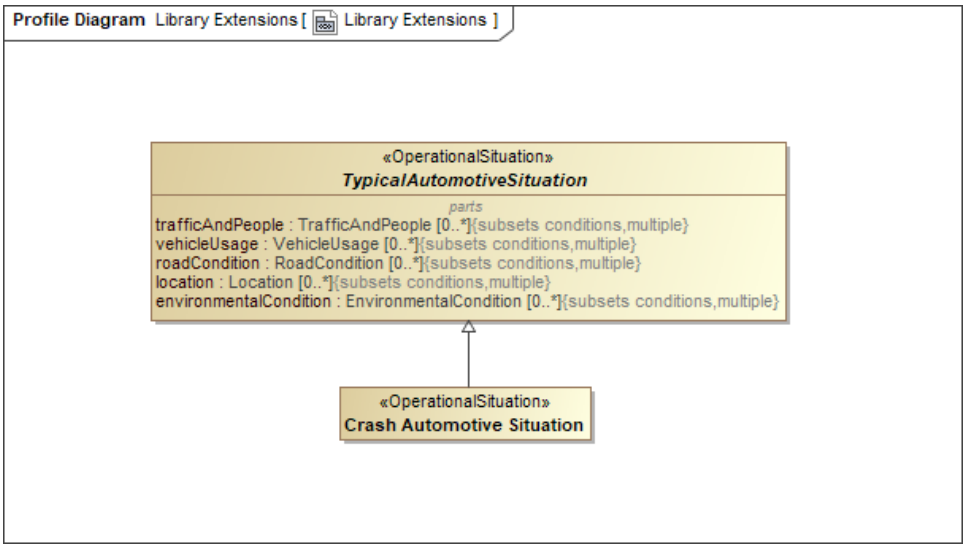
1. In a Generic Safety Table, select a table row.
2. Do one of the following:
   - In the table toolbar, click Add Sibling to create an element of the same level as the one you have selected.
   - In the table toolbar, click Add Nested to create an element nested under the selected element.
3. Type the name of the new element and press Enter.

Case study: Creating Generic Safety Table for a custom element type

You can use a Generic Safety Table to display custom element types with their properties. Let's analyze the workflow of creating a custom Operational Situation and displaying it in a Generic Safety Table.

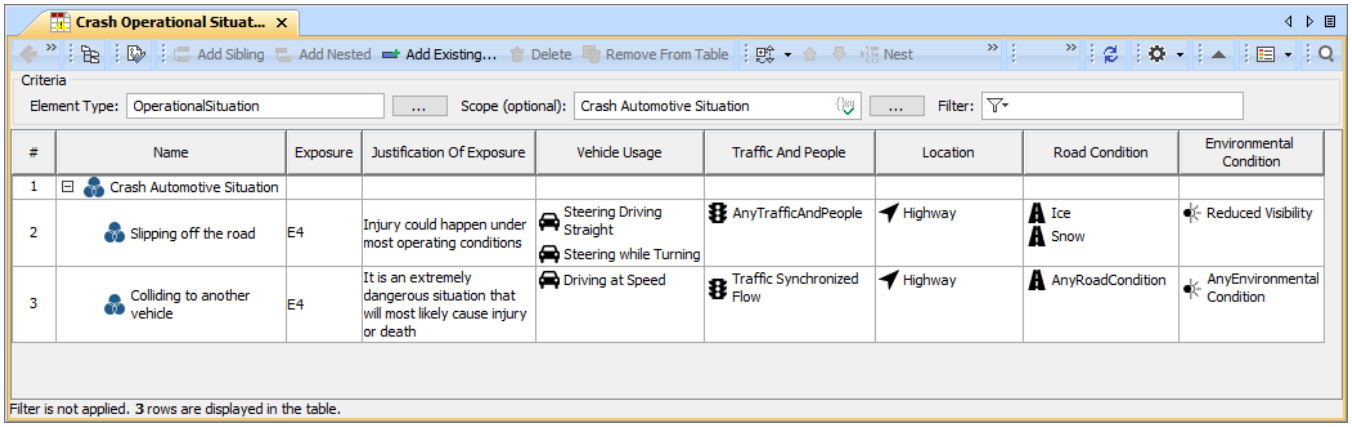
To create a custom Operational Situation and display it in a Generic Safety Table

1. In your model, create a Profile Diagram.
2. In the Profile Diagram, create a Class and name it, e.g., *Crash Automotive Situation*.
3. Apply the «OperationalSituation» stereotype to the Class.
4. In the ISO 26262 Library, find the *TypicalAutomotiveSituation* element and drag it to the Profile diagram.
5. Create a Generalization relationship from the Class created in step 2 to *TypicalAutomotiveSituation*. Your Profile Diagram should look as displayed below.



6. Save an reload the project.
7. In the Containment tree, right-click the element you want to be the owner of a Generic Safety Table, select **Create Diagram**, and select **Generic Safety Table** in the open dialog.
8. When the table is created, type the name of the table, e.g., *Crash Operational Situations*, and press Enter.
9. Click ... next to the **Element Type** box.
10. In the **Select Element Type** dialog, select **OperationalSituation**, and click **OK**.
11. Click ... next to the **Scope** box.
12. On the left side of the **Select Scope** dialog, select the scope element of the table, e.g., *Crash Automotive Situation*, click + to add the element to the selected elements area, and click **OK**.
13. In the Generic Safety Table, create new elements of the custom element type defined as the table scope, e.g., *Crash Automotive Situation*.
14. Add the desired columns to the table (by default, a Generic Safety Table has only the *Name* column).

After following the above steps and defining the properties displayed in your Generic Safety Table, it should look similar to the example below.



An example of a Generic Safety Table created for a custom Operational Situation.