

Case 7. Showing Representation Name in Table using StringConcat

To display Parameter Direction and Parameter Type in a single table cell

- 1. Create a **Generic Table**.
- 2. Set the **Element Type** to **Parameter** and **Activity**.
- 3. Set the **Scope** to the Activity element which contains the Parameters.
- 4. Click the **Columns** button and select **New Custom Column**. **Expression** dialog opens.
- 5. Set the **Type** as **String**.
- 6. Select the **Single Value** check box.

Name: Representation Name using StringConcat

Type: String

☒ Single Value

Expression

Expression

Simple Navigation

Edit

Use as...

Remove

- 7. Select **Create operation > Operation from Model > IfThenElse**.

If you cannot see the **Operation from Model** operation under **Operations**, make sure the **Expert** mode is enabled.

If you cannot see the **IfThenElse** operation, make sure the **Apply Filter** box is not checked.

Expression

Simple Navigation

Metachain Navigation

Find

Implied Relation

Create operation...

Create operation...

Operations

Simple Navigation

Metachain Navigation

Find

Type Test

Property Test

Union

Exclude

Operation from Model

- 8. Select **Condition > Reset**.

Expression

Simple Navigation

Metachain Navigation

Find

Implied Relation

IfThenElse1

Condition = false

Then = null

Else = null

Create operation...

Operation from Model::Condition

Edit

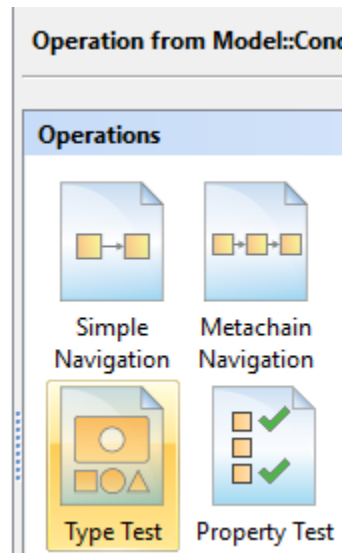
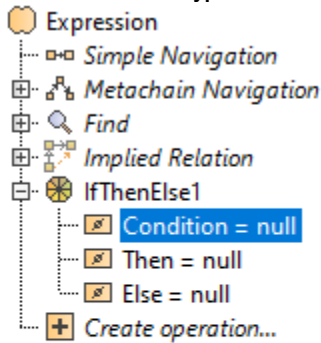
Use as...

Reset

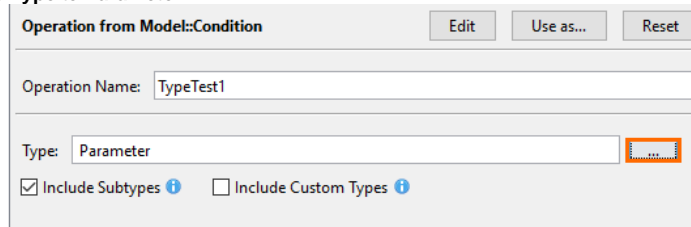
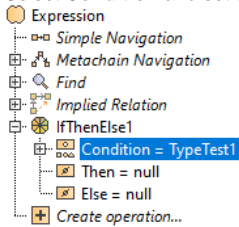
Operation Name:

Value: ☐ false

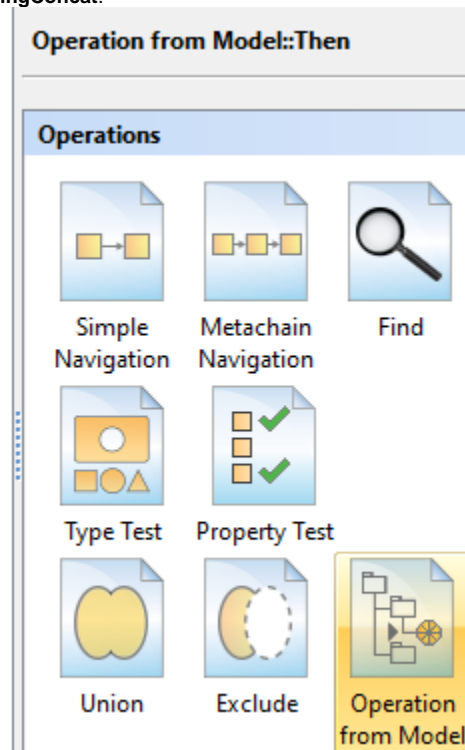
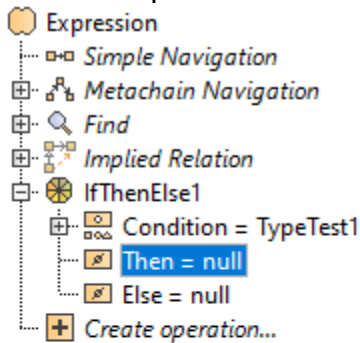
9. Select **Condition** > **Type Test**.



10. Select **Condition** and set the **Type** to **Parameter**.

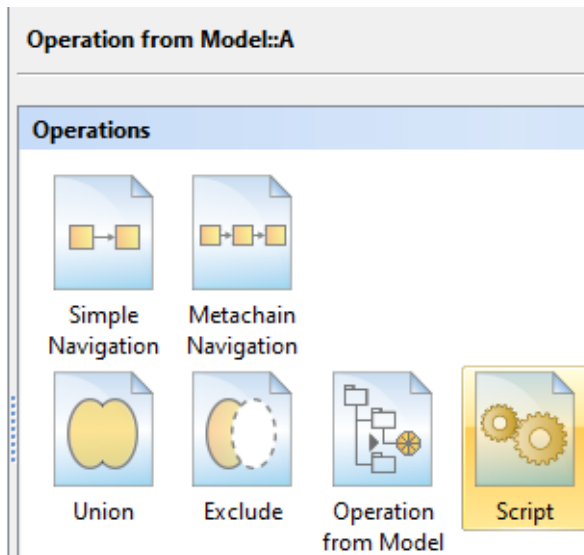
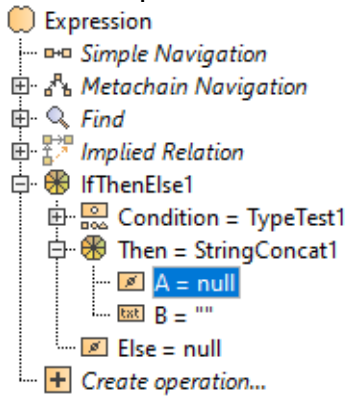


11. Select **Then** > **Operation from Model** > **StringConcat**.

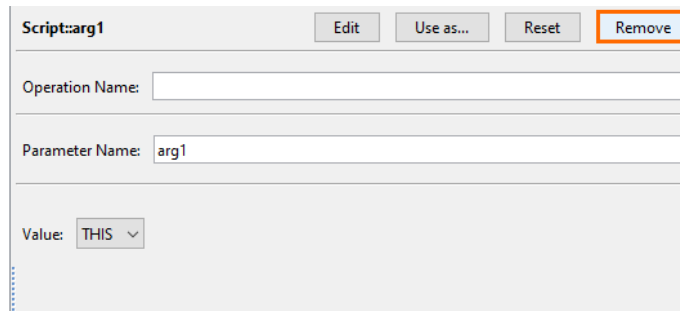
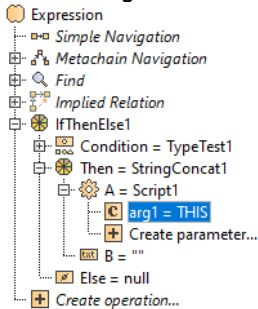


12. Select **A** > **Reset**.

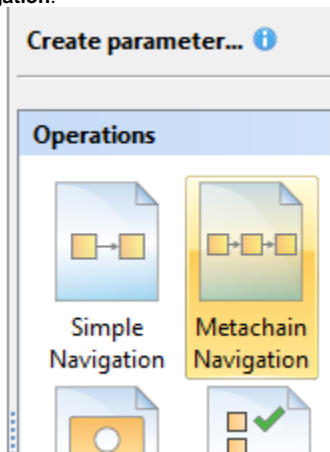
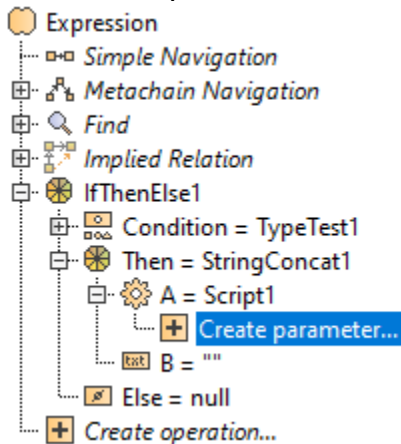
13. Select **A > Script**.



14. Select **A > arg1 > Remove**.



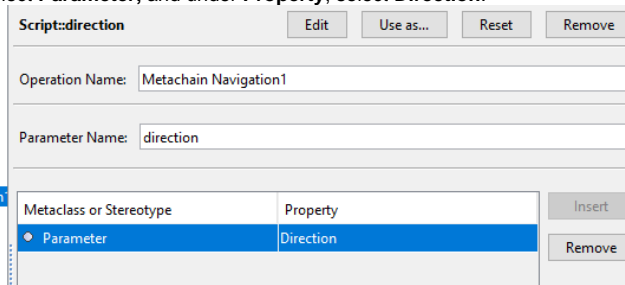
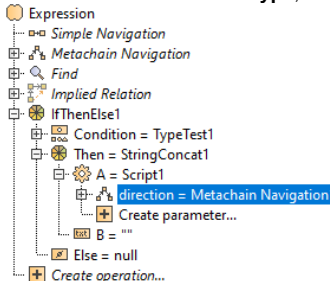
15. Select **A > Create parameter > Metachain Navigation**.



16. Set the **Parameter Name** to **direction**.

17. Click **Insert**.

18. Under **Metaclass or Stereotype**, select **Parameter**, and under **Property**, select **Direction**.



19. Select **A > Script**. From the **Language** drop-down list, select **Javascript Rhino**.

20. Insert the following script as the **Body**:

Javascript Rhino

```
direction.iterator().next().name + " : "
```

The screenshot shows the 'Expression' editor on the left with a tree view containing 'Simple Navigation', 'Metachain Navigation', 'Find', 'Implied Relation', and 'IfThenElse1'. The 'IfThenElse1' node is expanded, showing 'Condition = TypeTest1', 'Then = StringConcat1', and 'A = Script1'. The 'Script1' node is selected. On the right, the 'Operation from Model::A' dialog is open, showing 'Operation Name: Script1', 'Language: JavaScript Rhino', and 'Body: Script1(direction)' with the code `direction.iterator().next().name + " : "`.

21. Select **B** > **Reset**.

22. Select **B** > **Metachain Navigation**.

The screenshot shows the 'Expression' editor on the left with the same tree view. The 'IfThenElse1' node is expanded, showing 'Condition = TypeTest1', 'Then = StringConcat1', and 'A = Script1'. The 'A = Script1' node is selected. On the right, the 'Operation from Model::B' dialog is open, showing 'Operations' with 'Simple Navigation' and 'Metachain Navigation' options. The 'Metachain Navigation' option is selected.

23. Click **Insert**.

24. Under **Metaclass** or **Stereotype**, select **Parameter**, and under **Property**, select **Type**.

25. Click **Insert** again.

26. Under **Metaclass** or **Stereotype**, select **Type**, and under **Property**, select **Name**.

The screenshot shows the 'Expression' editor on the left with the same tree view. The 'IfThenElse1' node is expanded, showing 'Condition = TypeTest1', 'Then = StringConcat1', and 'A = Script1'. The 'A = Script1' node is selected. On the right, the 'Operation from Model::B' dialog is open, showing 'Operation Name: Metachain Navigation1'. Below the name, there is a table with two columns: 'Metaclass or Stereotype' and 'Property'. The table contains two rows: 'Parameter' with 'Type' and 'Type' with 'Name'. The 'Type' row is selected. On the right side of the table, there are 'Insert' and 'Remove' buttons.

27. Click **OK**.

Sample model

The model used in these examples is the *Case Studies for Querying the Model* sample model. To open this model, you need to download [case studies for querying the model.mdzip](#).