

# What's new in TestWeaver 3.5



December 2017

# New: Requirement Modelling Language (RML)

RML is the main new feature of this release. It comes in the aid of development and test engineers by providing an easy to use, yet unambiguous, requirement specification language that can be translated automatically into executable code (C/C++).

- easy to write and understand, close to natural language expressions
- computationally inexpensive, thousands of requirements monitored in real-time
- models reusable from unit test level to system test level
- use cases:
  - from [automated large coverage testing](#) to
  - off-line measurement evaluation or
  - on-line acceptance tests interactively performed while driving a car.

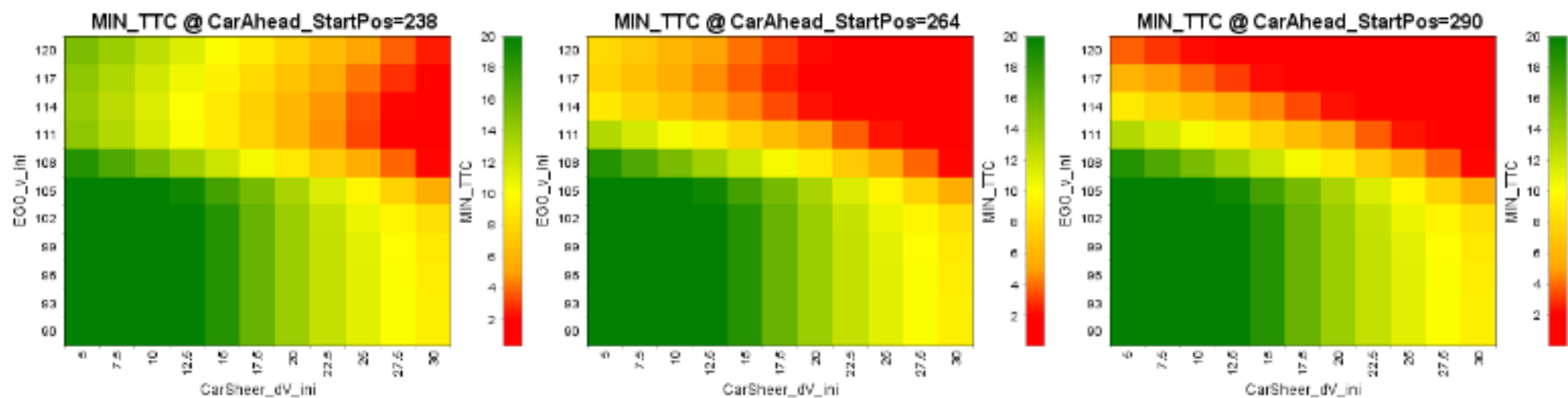


More about RML: please check the **User Guide** and the shipped demos.

# Improved support for parameter studies

Control parameter exploration, for instance by limiting the generation to k-wise combinations and other user-defined constraints.

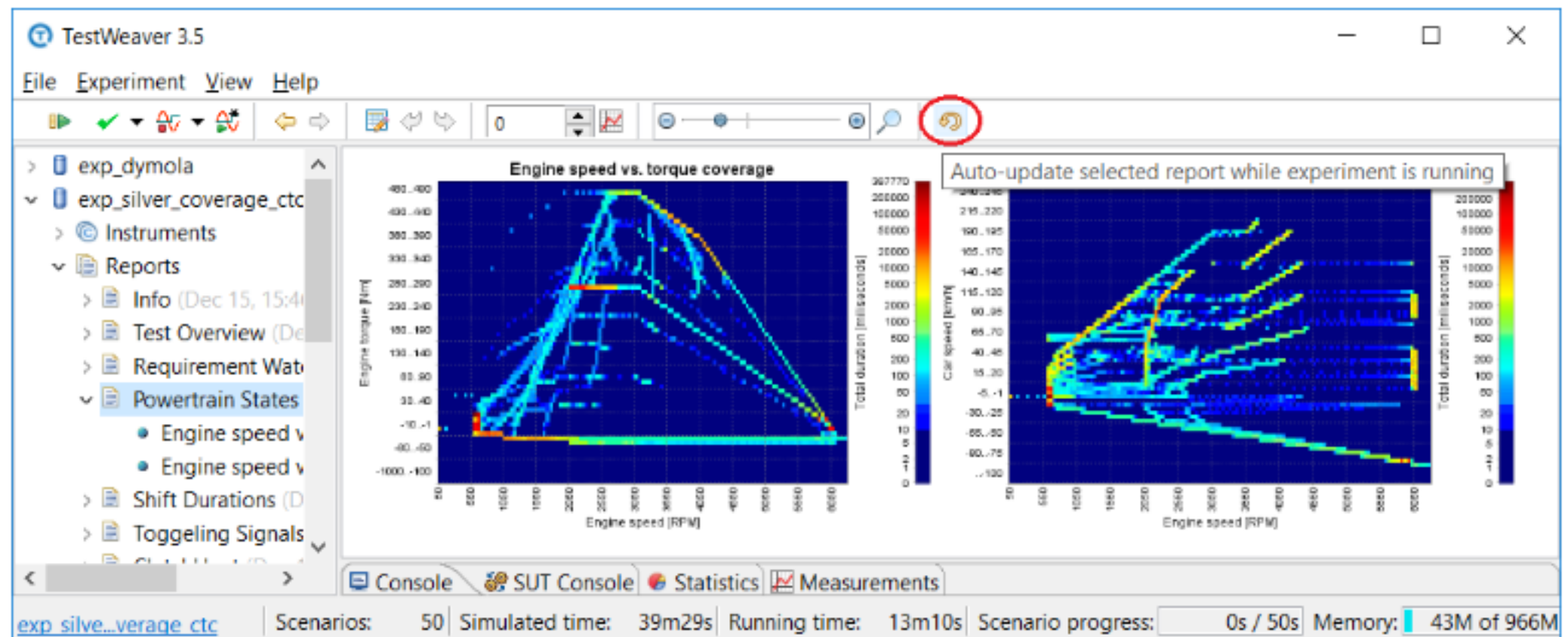
Improved visualisation for multiple dimensions. Have a look at our new demo `project_parameter_study`.



Above: heatmaps generated in a simulation experiment conducted with IPG CarMaker in an ADAS context.

# Live update of reports during an experiment

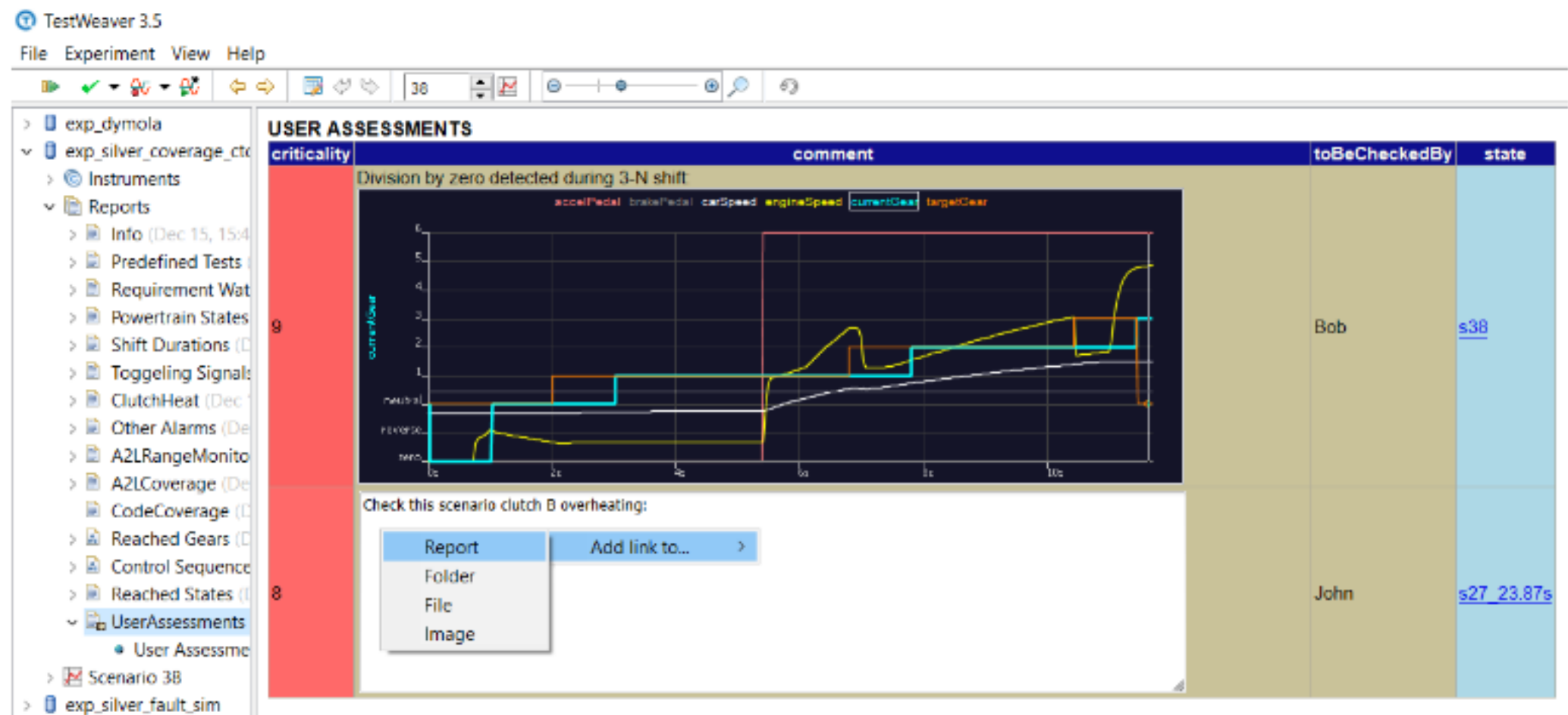
Use the new button from the tool bar to enable reports' auto-updating.




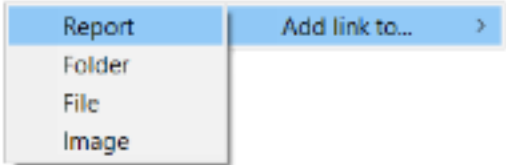
Create a screencast video from your live report updates! We can give you a hand!

# User assessments - add HTML links

Add links to instruments, reports and images in the user assessments or in the experiment description.



The screenshot shows the TestWeaver 3.5 interface. On the left is a navigation tree with 'UserAssessments' selected. The main area displays a table titled 'USER ASSESSMENTS' with columns: 'criticality', 'comment', 'toBeCheckedBy', and 'state'. Two rows are visible. The first row has a criticality of 9 and a comment containing a graph. The second row has a criticality of 8 and a comment 'Check this scenario clutch B overheating:'. A context menu is open over the graph in the first row, with options: 'Report', 'Folder', 'File', and 'Image'. The 'Report' option is highlighted, and a sub-menu 'Add link to...' is open, showing a list of items including 's38' and 's27\_23.87s'.

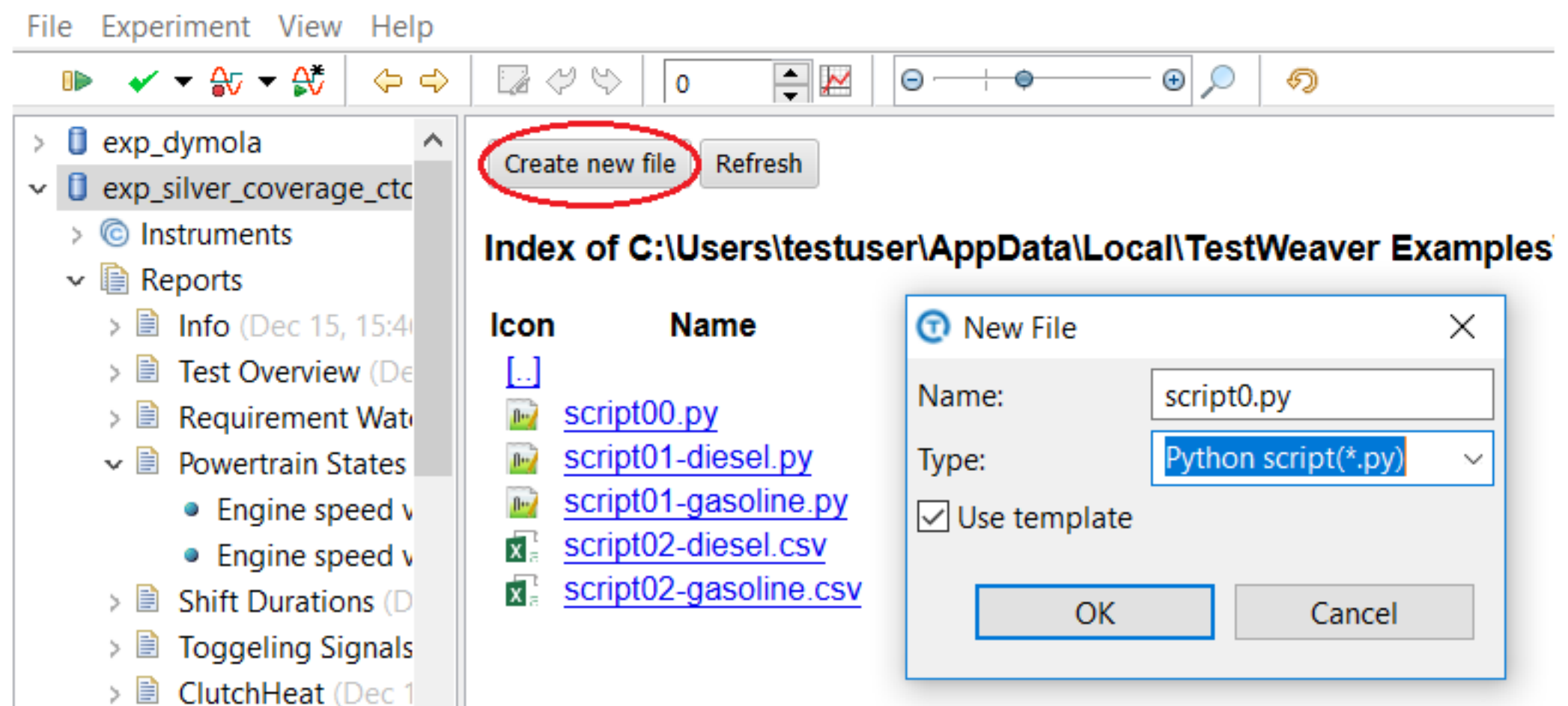
criticality	comment	toBeCheckedBy	state
9	Division by zero detected during 3-N shift 	Bob	<a href="#">s38</a>
8	Check this scenario clutch B overheating: 	John	<a href="#">s27_23.87s</a>

Right-click in the editable area opens a context menu for adding links.



# Watcher and script templates

Templates for new Python, RML and CSV files available from the file browser.



The screenshot shows the TestWeaver interface. The top menu bar includes 'File', 'Experiment', 'View', and 'Help'. Below the menu is a toolbar with various icons. The left sidebar shows a file tree with folders like 'exp\_dymola', 'exp\_silver\_coverage\_ctc', 'Instruments', and 'Reports'. The main area displays an 'Index of C:\Users\testuser\AppData\Local\TestWeaver Examples' with a table of files:

Icon	Name
[..]	[..]
[Python icon]	<a href="#">script00.py</a>
[Python icon]	<a href="#">script01-diesel.py</a>
[Python icon]	<a href="#">script01-gasoline.py</a>
[CSV icon]	<a href="#">script02-diesel.csv</a>
[CSV icon]	<a href="#">script02-gasoline.csv</a>

A 'Create new file' button is circled in red. A 'New File' dialog box is open, showing the following fields:

- Name: script0.py
- Type: Python script(\*.py)
- Use template
- Buttons: OK, Cancel

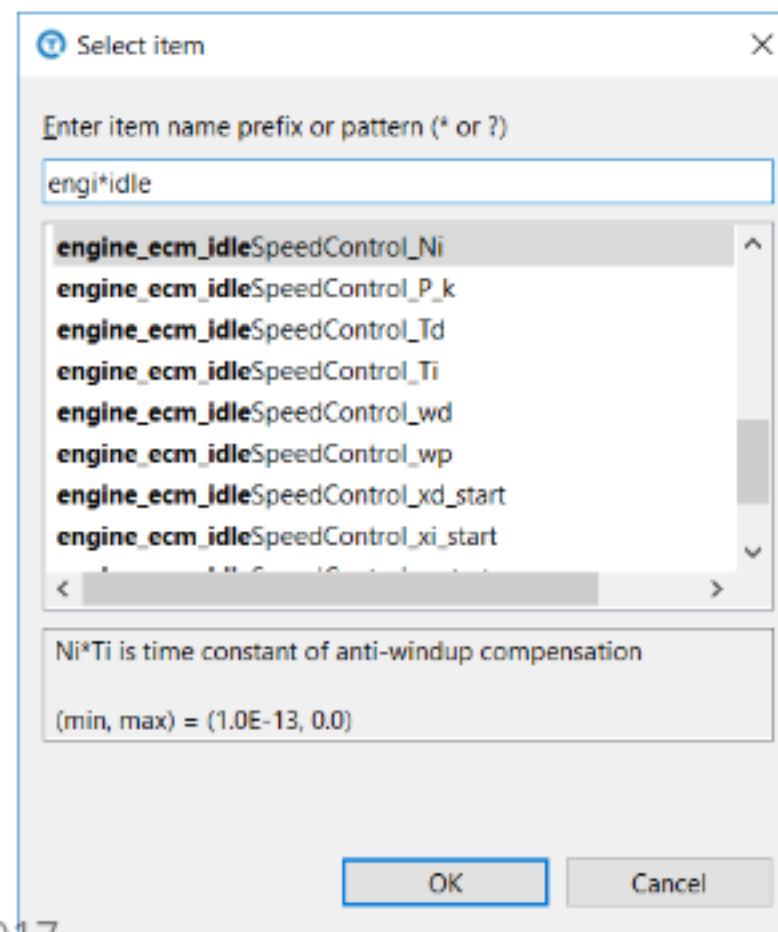
Click on the file link to edit the file with the embedded editor.

# Signal names available in Python and in RML editors

Signal definitions are automatically imported from Silver setups and are provided in the autocompletion lists.

For autocompletion in the embedded editors you can use:

- CTRL-SPACE - for **quick autocompletion**
- SHIFT-SPACE - search names using **wildcard expressions**, like in [Silver](#)



# Plotter - more functions

- Keyboard shortcuts to move the (reference / difference) cursors: CTRL / SHIFT + arrows
- Line display modes: interpolation vs. discrete step values, configurable from the plotter's preferences dialog
- Select all traces with CTRL-A; deselect all traces with ESC
- Select traces directly by clicking on the plots
- Allow to set the (reference / difference) cursors to fixed points: edit the X position displayed (green/red) on the plotter's tool bar.







**QTronic**  
VIRTUAL ECUs

for a complete list of changes please consult the Release Notes for TestWeaver 3.5.0  
<http://www.qtronic.de>