

# Tessy V3.0 Features

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## 1 New GUI Improves Usability

The Tessy main window will get a fresh look.

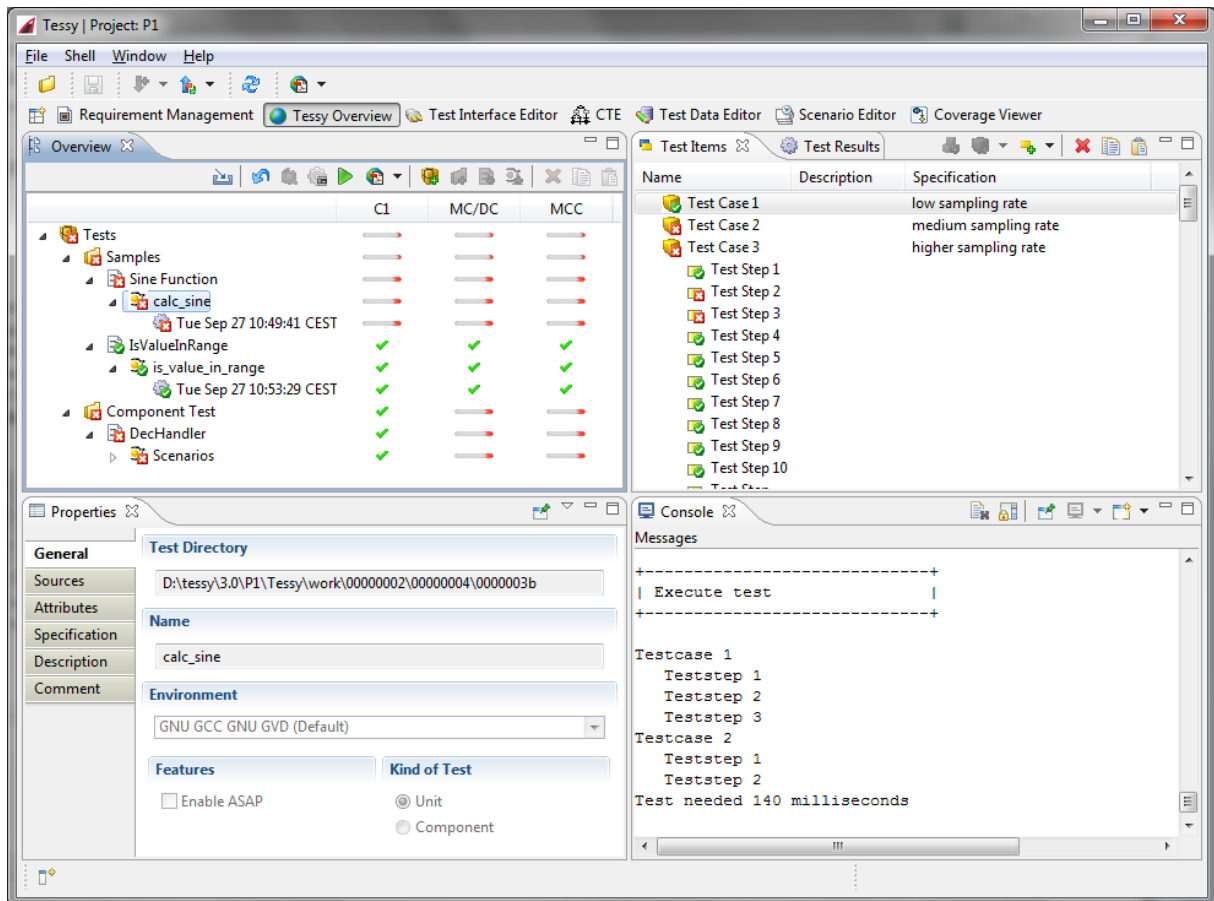


Fig. 1 The Tessy main perspective

The new Tessy GUI will provide easier access to all functionalities within multiple perspectives and views on the test data. The new project structure will introduce a folder hierarchy instead of the former single project level.

The new Tessy main perspective will provide a more summarized overview about passed/failed results, coverage and other useful status information. .

## 2 Requirements Traceability

A basic requirements management solution will be introduced. It will allow synchronizing with external requirements sources (e.g. DOORS, but also Word, Excel) using file based import/export mechanisms (e.g. CSV, TXT and XML format).

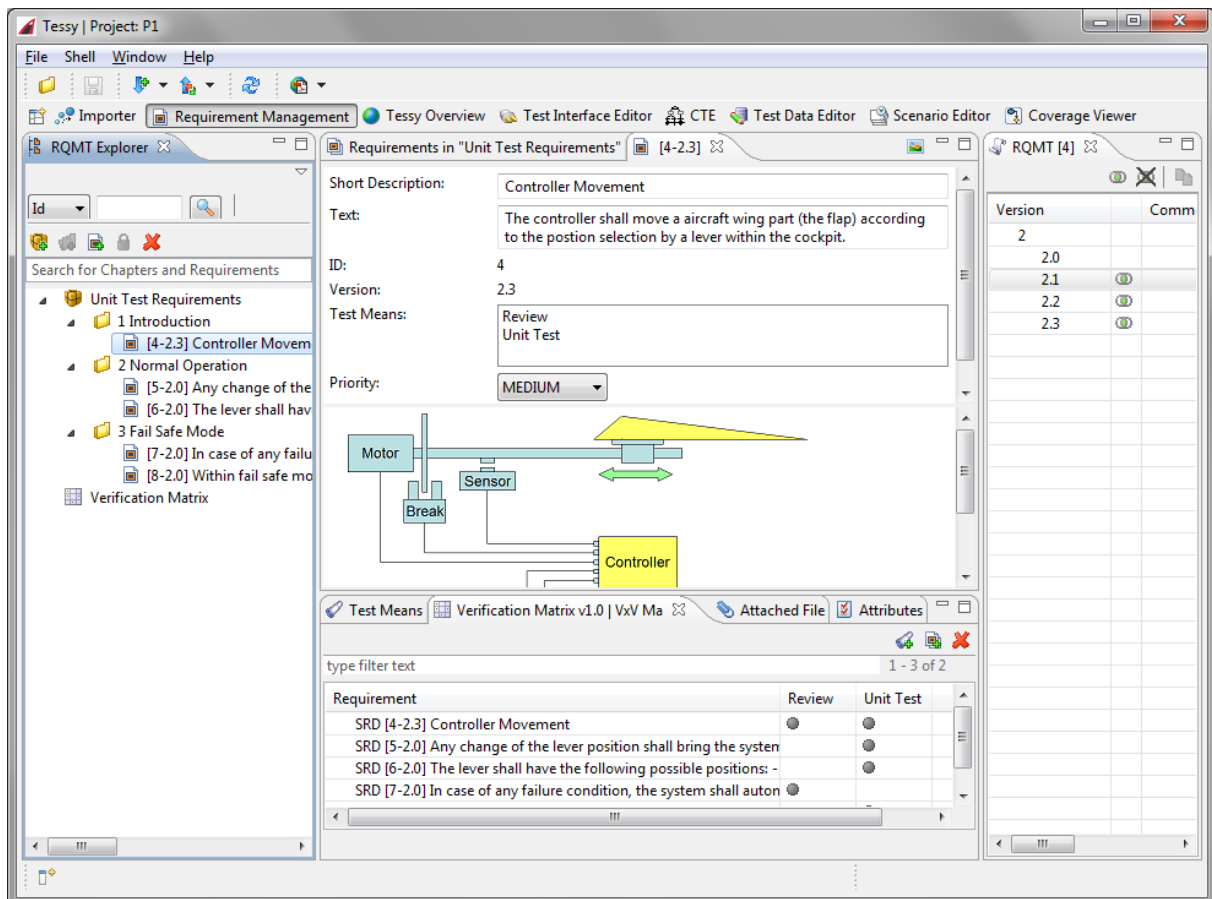


Fig. 2 Requirement Management

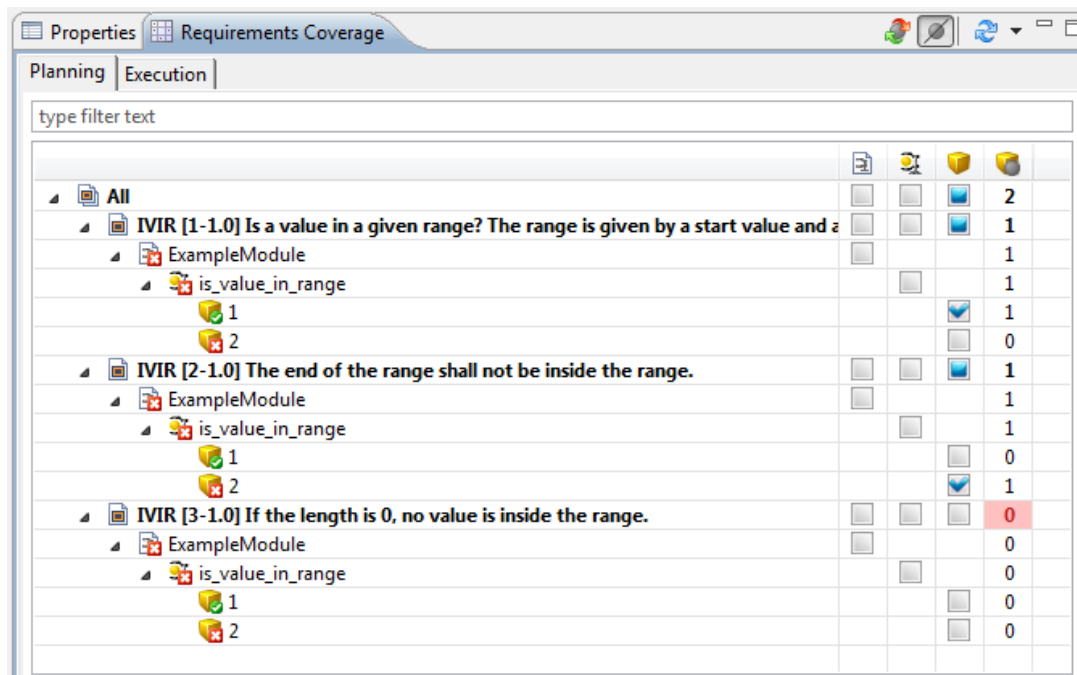


Fig. 3 Linkage of requirements to test cases

Reference mechanisms from test cases back to the requirements will allow easy coverage analysis and reports as well as impact analysis of requirements changes.

### Requirements covered by Tests

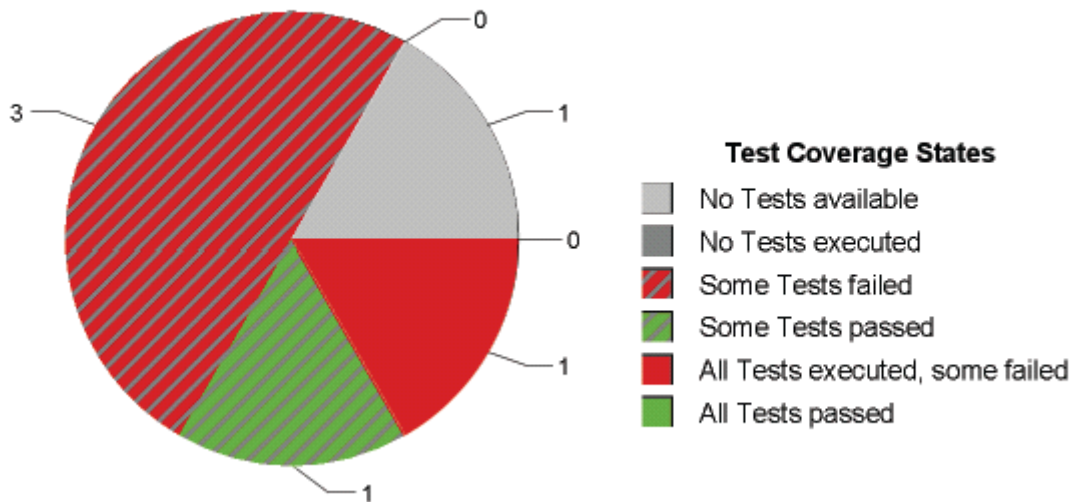


Fig. 4 The graphical representation of the coverage of the requirements by tests

The coverage of requirements by tests will be measured automatically to reveal the state of the testing process.

### 3 Improved Integration of CTE/ES

The CTE/ES will have a tighter integration to Tessy and the Test Data Editor (TDE). Values for all types of variables can be specified in the new CTE.

### 4 Enhanced Usercode Editor

The Usercode editor is now an integral part of the TDE perspective and provides flexible editing and outline views together with the tabular test data viewer. Usercode for stub functions may be specified on a per-test-step basis which facilitates returning specific values for individual test steps.. A new evaluation macro results view provides faster access to failed test results.

### 5 Extendable Interface

The interface of the test object is usually automatically detected by Tessy. It is now possible to extend the interface by variables which are defined by the user. Input values and expected results for such variables may be entered within the test data editor like all other interface variables.

## 6 Enhanced Test Data Editor

The enhanced Test Data Editor (TDE) will replace the hitherto TDE and will provide easy entering and overview of test data in a tabular, spreadsheet like manner. See figure below.

	1.1	2.1	3.1	4.1
<b>Inputs</b>				
<b>Globals</b>				
<b>Parameter</b>				
• long * array	target_array	target_array	target_array	target_array
• long size	8	8	8	8
<b>Dynamics</b>				
• long target_array[8]				
• long target_array[0]	22	17	65	23
• long target_array[1]	84	32	84	84
• long target_array[2]	20	32	20	20
• long target_array[3]	65	22	65	65
• long target_array[4]	19	16	19	19
• long target_array[5]	97	89	97	97
• long target_array[6]	50	39	50	50
• long target_array[7]	84	88	84	84
<b>Outputs</b>				
<b>Globals</b>				
<b>Parameter</b>				
• Return				
• long	6	5	6	6
<b>Dynamics</b>				
• long target_array[8]				

Fig. 5 The new TDE

## 7 Improved Test Data Plots

The enhanced test data plots will allow displaying of input data related to expected and actual result data. Multiple variables may be displayed in a single plot. See figure below.

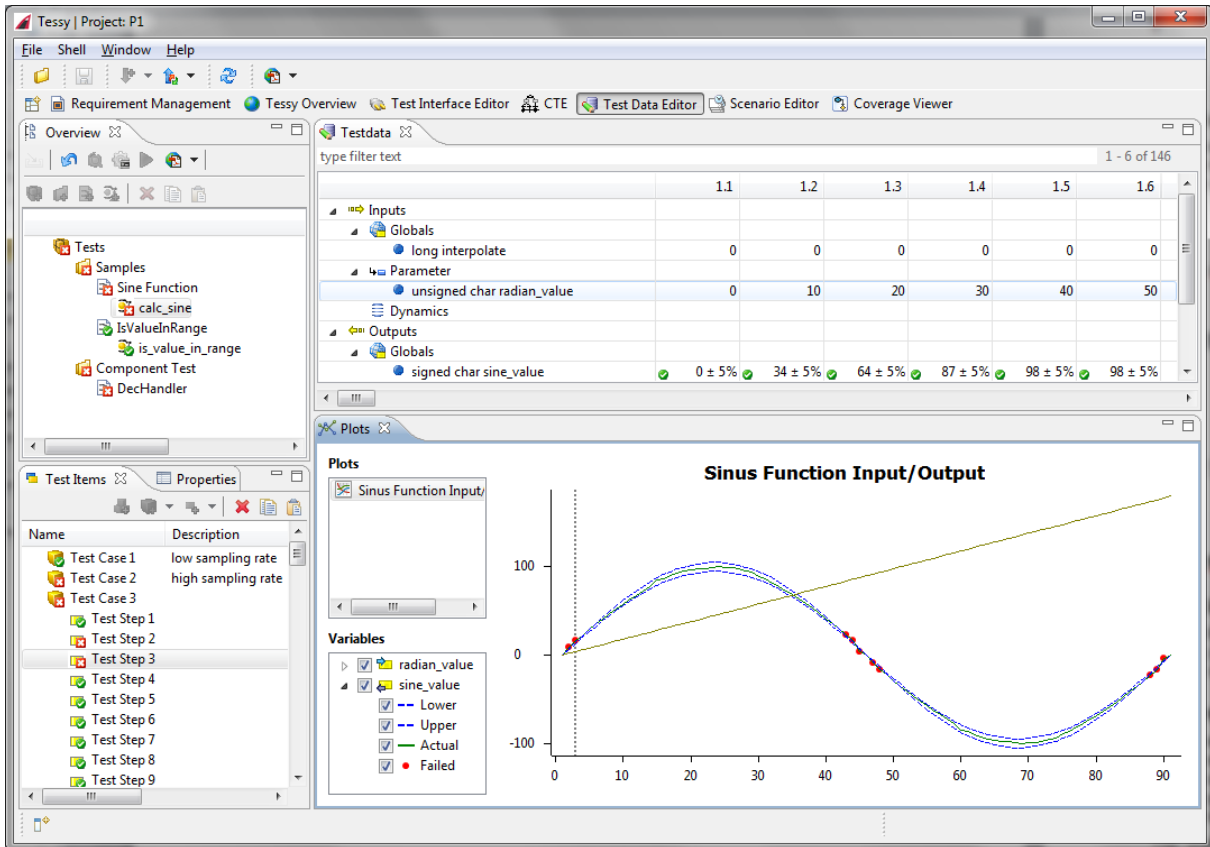


Fig. 6 Tabular Test Data Editor (upper right) and enhanced test data plots (lower right)

## 8 Enhanced Component Test

Now all variables of the component interface may be set and checked at arbitrary points in time within the scenario. Entering of input data and expected results will be carried out using the new tabular Test Data Editor (TDE).

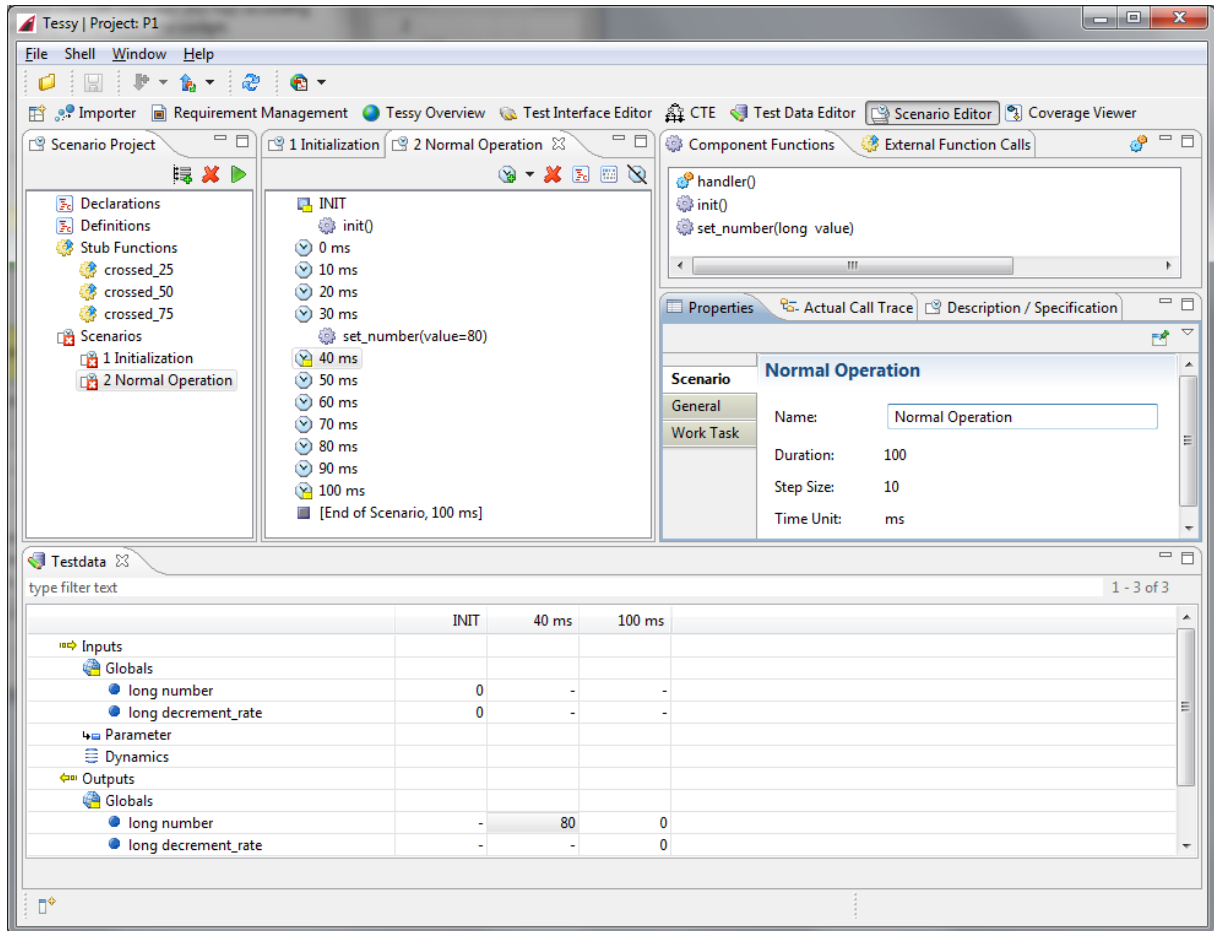


Fig. 7 The improved Scenario Editor (SCE) used for component / integration testing

## 9 API and Command Line Interface

An API for the project database (PDB) and the test database (TDB) will be available, enabling the user to write scripts (e.g. using Python) to modify these information or add new modules with all necessary settings (e.g. source files, include paths, defines) into the project database.

A command line executable provides all commands of the API for usage within DOS batch files.

## 10 Reports in PDF format

All reports will be generated in PDF format directly including pie chart graphics where appropriate. TESSY provides reports for a single test object, a batch test report cumulating the results of multiple test objects and requirement coverage reports that relate either planned tests or actual test results to the available requirements.