

# CANTATA

## What's New in Cantata 7.2



---

Cantata 7.2 will be generally available from May 2017. This release focuses on making Cantata even easier to use.

This document outlines the most important changes in Cantata version 7.2.

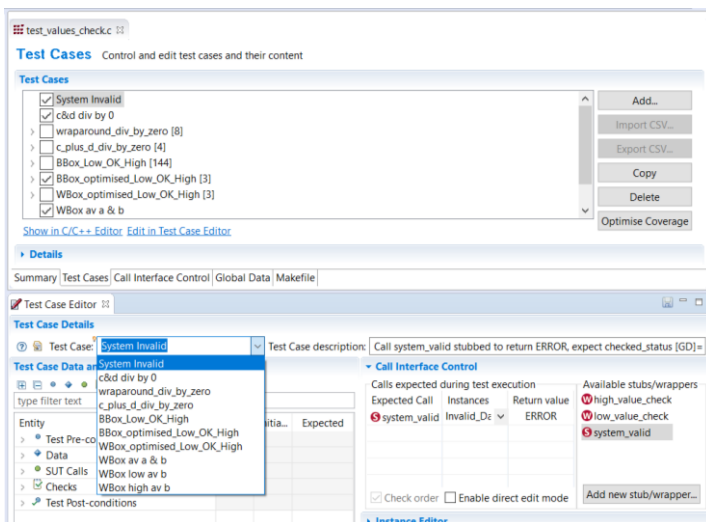
---

# Introduction

Cantata 7.2 will be generally available from May 2017. This release focuses on making Cantata even easier to use. The full set of changes is documented in the Release Notes which track all changes in Cantata since version 4.1. The major changes in this release are highlighted in the sections below.

The Cantata Team Reporting add-on accompanying this release, also makes it easier for managers to gain actionable insights on testing status and configure reports.

## New Test Case Editor



Cantata 7.2 introduces a new Test Case Editor (TCE) which enhances and is synchronised with the existing graphical Test Script Manager and C/C++ editors.

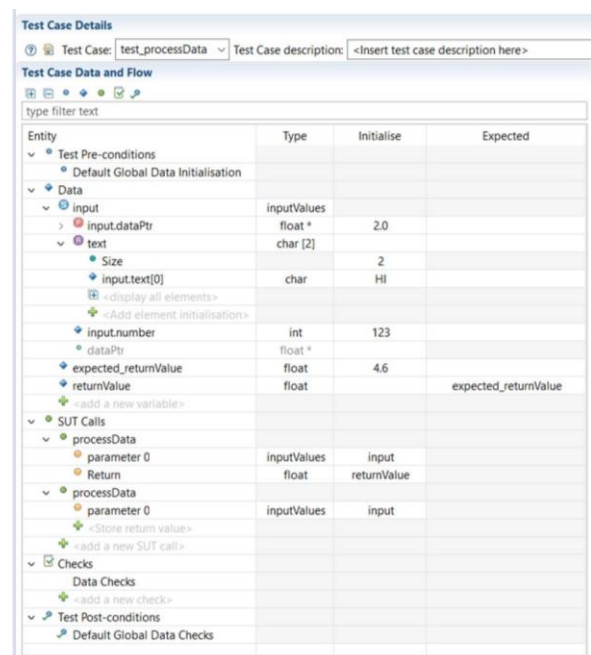
The new editor supports all existing Cantata test case formats and provides all controls relevant for the test case, in a single comprehensive tree view of the test case flow.

With drag and drop and a toolbox of controls, the new test case editor provides an easier to use graphical way to develop all Cantata test cases.

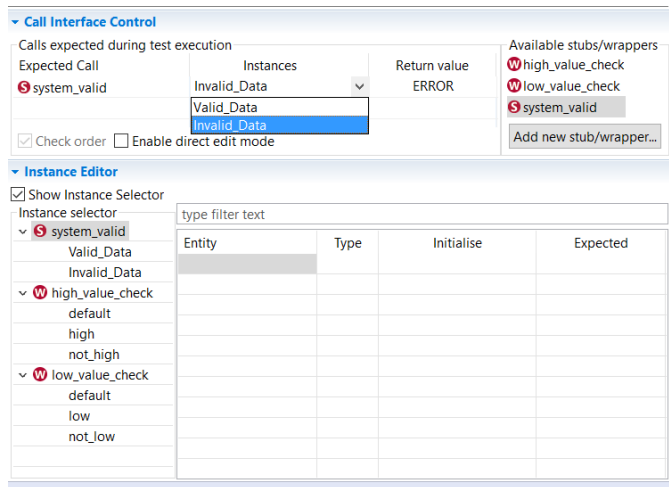
## Test Case Data and Flow panel

A single panel displays the sequence of each test case.

- Pre and Post condition blocks manage the application within the test case of global data checks.
- Data initialisations and expected return values have intelligent editing with drop down menus, and provide easy editing for complex data types
- Multiple calls to the software under test can be configured, making it simpler to develop object oriented style test cases with a sequence of method calls on a class object.
- The returns from different calls can be stored, used and checked independently.
- A checks tree allows the definition of all styles of Cantata checks for data and return values.



## Test Case Call Interface Control panel

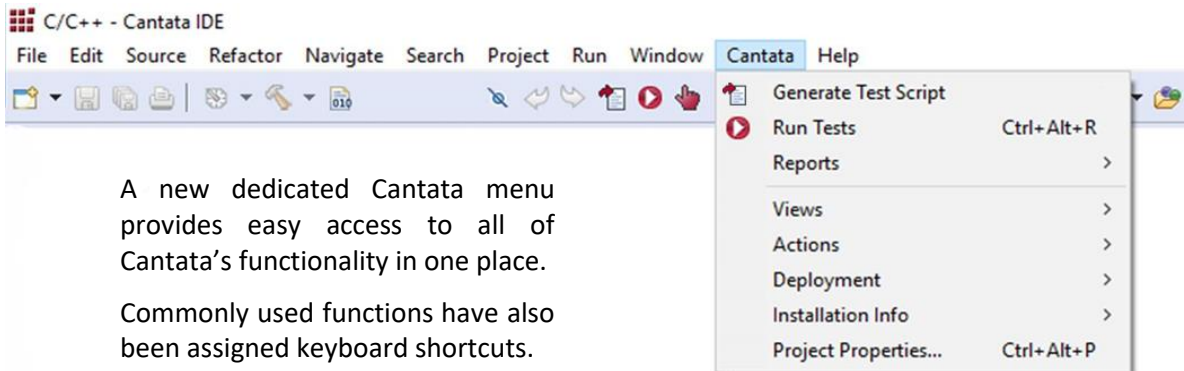


A new Call Interface Control panel provides complete visibility of calls controlled by Cantata (e.g. stubs or wrapper) to be used in the test case.

A simpler call order checking capability is added alongside the existing mechanism, making the presentation simpler and reduces memory overhead for smaller target environments.

An instance editor provides more powerful way to edit instances inside test cases.

## New Cantata Menu

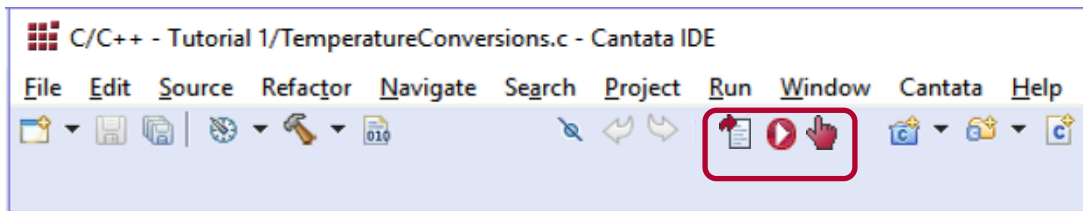





A new dedicated Cantata menu provides easy access to all of Cantata's functionality in one place.

Commonly used functions have also been assigned keyboard shortcuts.

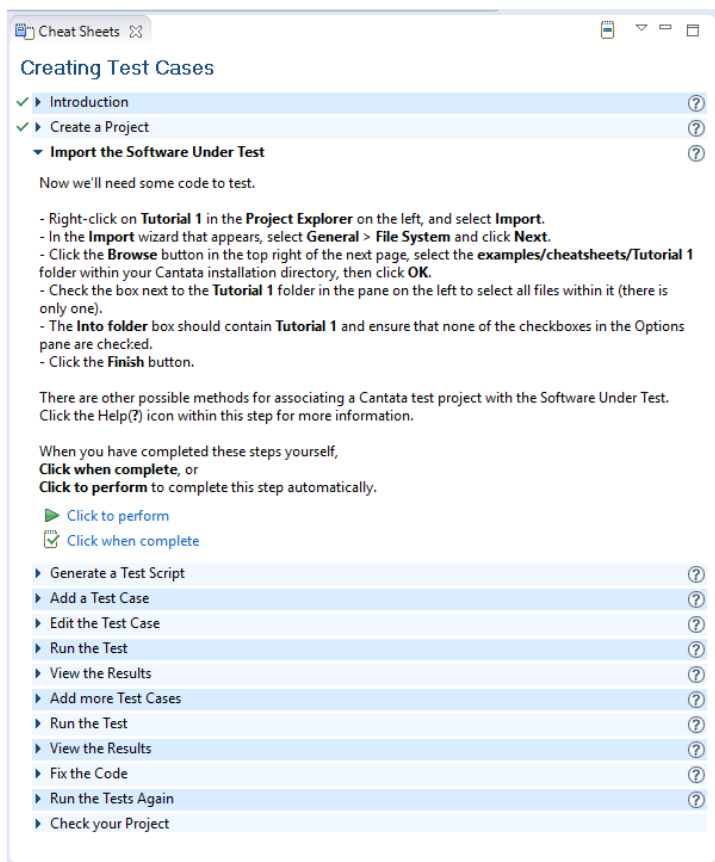
## New toolbar access to key functions

Buttons in the Eclipse® toolbar now provide quick and easy access to key Cantata functionality.



-  **Generate test script**- enables Cantata on a project, parses code and generates .csi files as well as opening the Test Script creation wizard
-  **Build & run a test** – Uses Cantata make file incremental or full build and the runs the test executable
-  **One-click AutoTest** – Generates and executes AutoTest on the selected source file/project

# New Tutorials



Added in Cantata 7.2 are guided interactive tutorials which teach users about Cantata and its features.

The tutorials provide a good basis for exploring Cantata during an evaluation or orientation for new users of the tool in approximately 5 hours, after the First Use Guide has been followed.

Within the Cantata IDE, the tutorials are available as Eclipse® cheat sheets. They guide users with step by step instructions, or users can directly 'click-to-perform' actions to see what the step does.

The tutorial introduces the main Cantata capabilities by exploring different test techniques in a single temperature controller project.

# Extended Platform Support

As with every version of Cantata, support for platforms has been extended.

Cantata is tightly integrated with leading Integrated Development Environments Built-on-Eclipse® and toolchains available as Eclipse® Ready plug-ins.



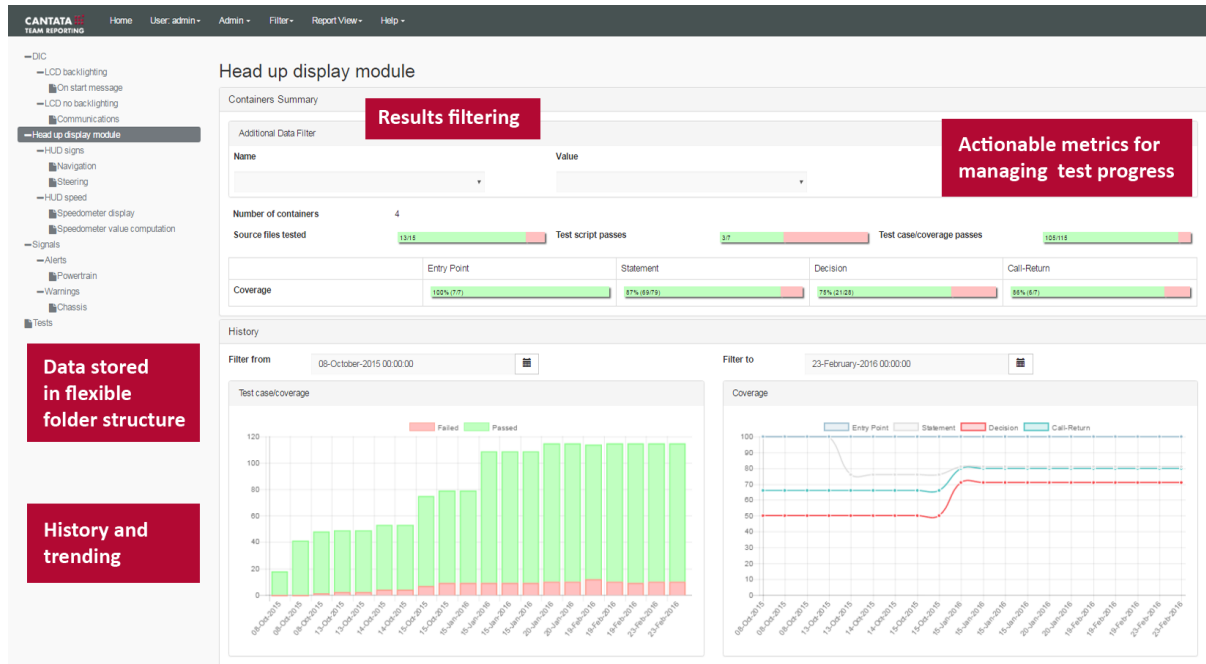
- Cantata 7.2 is built on the Mars (4.5.2) release, and is also available to install as an Eclipse-Ready plug-in set for releases Galileo (3.5) up to Neon (4.6), giving instant access to the ecosystem's latest rich set of plug-and-play tool integrations (e.g. SCM, CI tools).
- Support for the GNU GCC and g++ compilers has been extended to support up to and including version 6.3.
- Most C++ 11 language features are now supported
- The Cantata integration with Microsoft Visual Studio® has been updated so that Cantata 7.2 is integrated with Microsoft Visual Studio 2013® for C & C++.
- More than 70 new sets of target deployment settings have been added to make deploying Cantata to common embedded target platforms easier for end users.

# Cantata Team Reporting

## New Real time manager's dashboard

A new web based manager's dashboard provides an overview of current testing status, historical data and trends over multiple codebases.

This view reflects the test information in the selected container and any sub-folders giving testing information for any level within a project.



As in previous versions of Cantata Team Reporting all revisions of source code and results are stored on the Cantata server so that detailed information can also be accessed using the web interface and viewed in the same style as within the Cantata desktop Eclipse® GUI.

## New Report Generation

Pre-configured and user customizable reports make it easy to generate reports with the precise information required. Managers can select:

- the filtered test runs to be included
- the test status and coverage data to be included
- report style and layout

Reports can be viewed in a browser, or exported as pdf or html. This makes it easy for organizations to share test status information with internal/external clients and partners.