



Technical Notes - Usage

Adding Extra Information to Reports

version 25.07

This Technical Note provides step by step instructions for users to add extra information in Cantata Test scripts and to format this for inclusion in Cantata Test Reports.

Document valid for versions from 22.10

Generated 03 July 2025

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Adding Extra Information to Reports

This Technical Note provides step by step instructions for users to add extra information in Cantata Test scripts and to format this for inclusion in Cantata Test Reports.

This document is not intended to be used as a replacement for the manuals and other documentation supplied with Cantata. It should be used in combination with these to best utilise Cantata within your environment.

Introduction

This document provides instructions on how to add extra information to Cantata Test Reports. Such extra information may be useful in generated test reports to meet requirements which are specific to your organization.

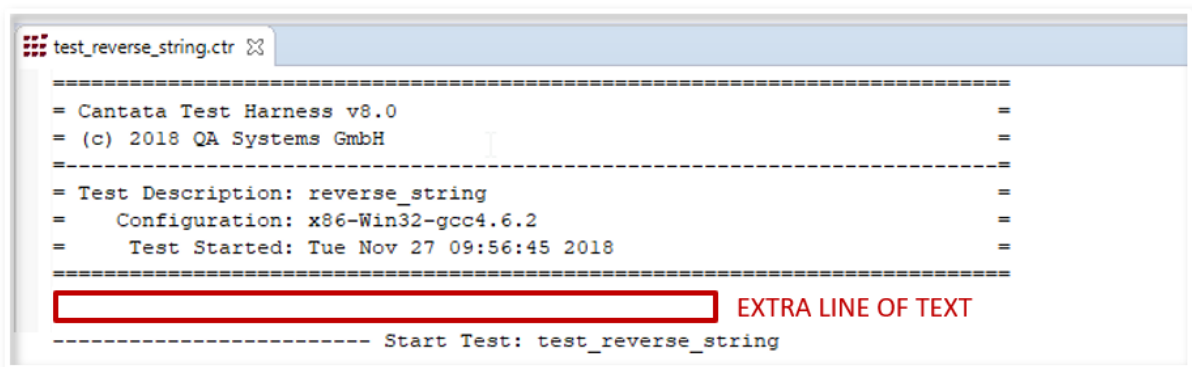
Instructions are given for how to add new text elements to the generated results files:

- XML format (test_report.xml)
- ASCII format Text Results Log (<test_script_name>.ctr)

and for how to configure the display of these text elements (using XSLT file transforms) in the Cantata Full HTML Test Report.

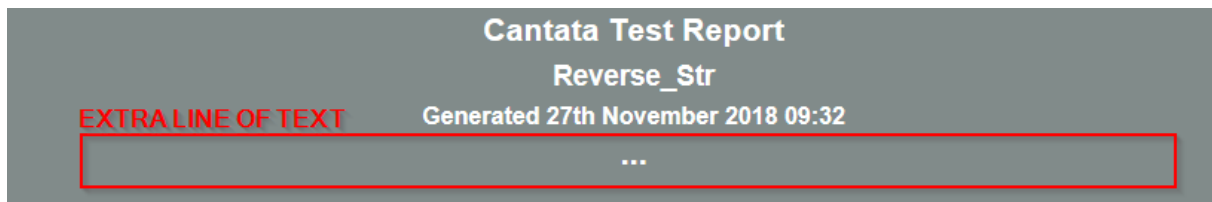
The instructions for changing and storing XSLT files are also applicable, should you wish to add to the Cantata HTML Test Report styles included in the Cantata Report Viewer.

The example below shows how to add a simple extra line of text in the header block of the original example results files below.



```
test_reverse_string.ctr
=====
= Cantata Test Harness v8.0                               =
= (c) 2018 QA Systems GmbH                                 =
=====
= Test Description: reverse_string                           =
= Configuration: x86-Win32-gcc4.6.2                         =
= Test Started: Tue Nov 27 09:56:45 2018                     =
=====
[REDACTED] EXTRA LINE OF TEXT
----- Start Test: test_reverse_string
```

Original example Cantata Text Results Log (test_reverse_string.ctr)



Project Information

Test Script Info

Original example Cantata Full HTML report (test_report.html)

Add Text to the Test Script

The first step, is to add a Cantata **WRITE_LOG** directive to the Cantata test script from which the report will be generated. In this example we will add the EXTRA LINE OF TEXT to the top of the reports.

Open the Cantata test script in a source code editor, and add the highlighted syntax immediately after the **START_SCRIPT** directive and before the run_tests function call as below:

```

/*****
/* Program Entry Point
*****/
int main()
{
    OPEN_LOG("test_reverse_string.ctr", false, 100);
    START_SCRIPT("reverse_string", true);

    WRITE_LOG("Your Comment as Per ...Required\n", cppth_ll_normal, true);

    run_tests();

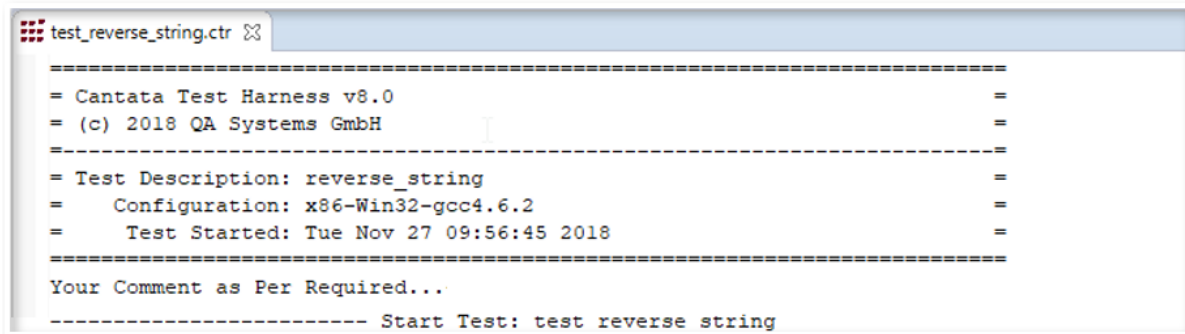
    return !END_SCRIPT(true);
}

```

The full syntax use of the Cantata **WRITE_LOG** directive is defined in the Cantata Help > Test Harness Reference Manual (section 3.9.3).

In this case we use the string “Your Comment as Per Required... and a line terminator \n”, along with the normal results logging level and flush left parameters.

On test execution, the string is written out to the resulting ASCII test results file as below. The location of the string in the .CTR file is determined by the placement of the Cantata **WRITE_LOG** directive immediately after the **START_SCRIPT** directive. **WRITE_LOG** directives may be used at anywhere after that point within the test script, to write out strings at suitable locations.



```
test_reverse_string.ctr
=====
= Cantata Test Harness v8.0
= (c) 2018 QA Systems GmbH
=====
= Test Description: reverse_string
= Configuration: x86-Win32-gcc4.6.2
= Test Started: Tue Nov 27 09:56:45 2018
=====
Your Comment as Per Required...
----- Start Test: test reverse string
```

_Modified example Cantata Text Results Log (test_reverse_string.ctr)_

For the HTML results report however, the string will be written to a generic location, not in the desired place at the top of the report. This generic location outside a test case can be found further down the HTML report as below:

Outside Test Case

User Comment

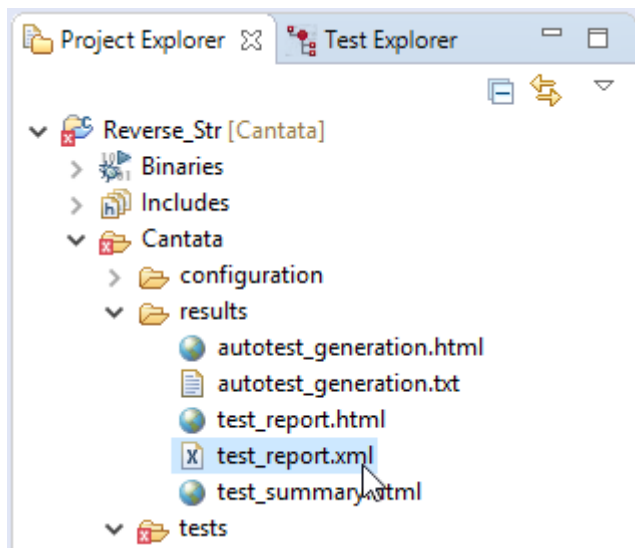
Source File: test_reverse_string/test_reverse_string.c
Line Number: 117

Your Comment as Per Required...

Cantata generates HTML reports using XSLT files to transform the raw XML results to the desired reporting layout in HTML. The installed report styles (Transforms) included in the Cantata Report Viewer, will need a different XSLT file to transform the XML results to the desired HTML format with the EXTRA LINE OF TEXT at the top of the report.

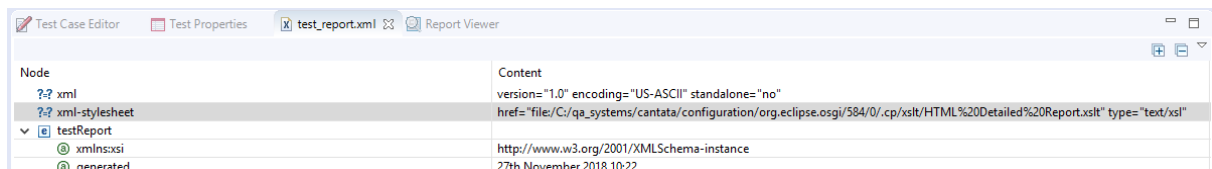
Copy an XSLT Transform File

To locate your XSLT files, first run the test (if it has not already been run), then navigate to the Cantata Project Explorer and select the following: **your project name > Cantata > Results > test_report.xml**



Then double-click on test_report.xml file to open it in an XML editor.

The Content field of the xml-stylesheet node displays the directory where the XSLT files are located.



Open this directory in a file browser on your computer. This directory will contain the installed XSLT stylesheet files.

Rather than modifying an existing file here, make a copy of one and rename it. It may be a good idea to create a new directory to make this new file easier to find in future.

Any of these report files can be copied and modified according to need. For this example, the file to be copied and modified is HTML Summary Report.xslt

Modify the Copied XSLT File

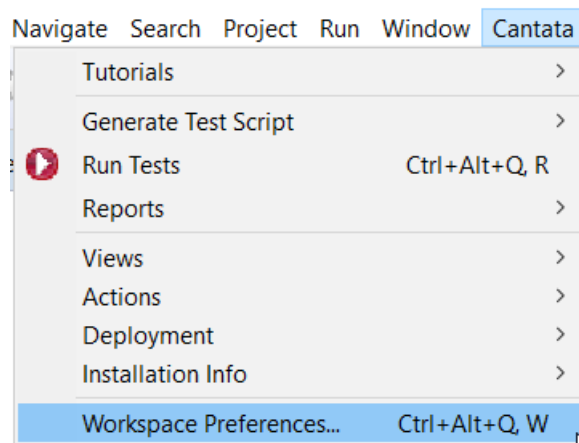
The new XSLT file can be modified, to produce the desired HTML format with the EXTRA LINE OF TEXT at the top of the report.

Open the HTML Summary Report.xslt in an editor and navigate to the BODY of the file.

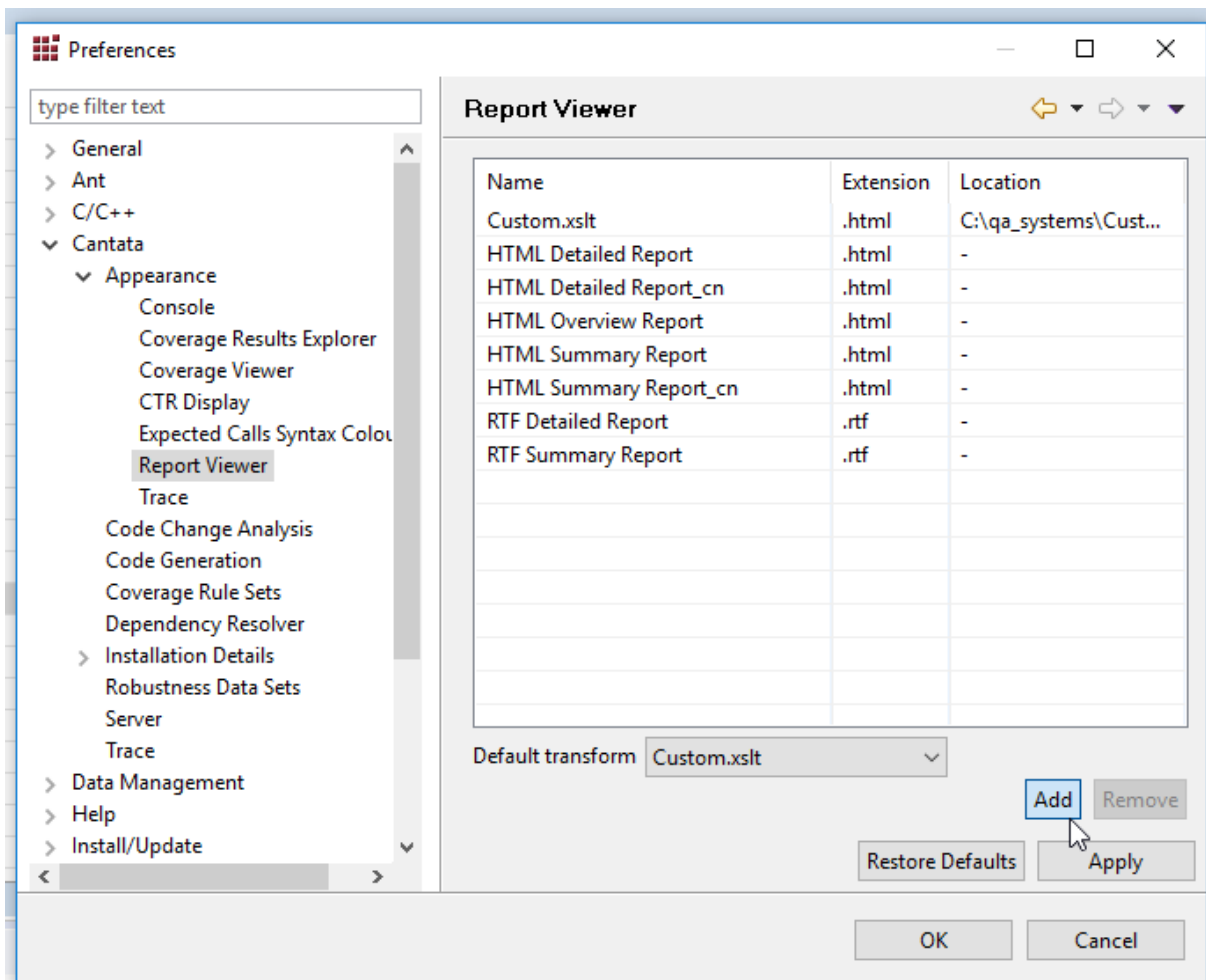
Add the highlighted syntax below at the bottom of the header configuration (or wherever otherwise required). This specifies the desired location in the HTML of the added string.

Add Modified XSLT to Report Viewer

To add the modified transform to the Cantata Report Viewer, from the Cantata menu open the Workspace Preferences:

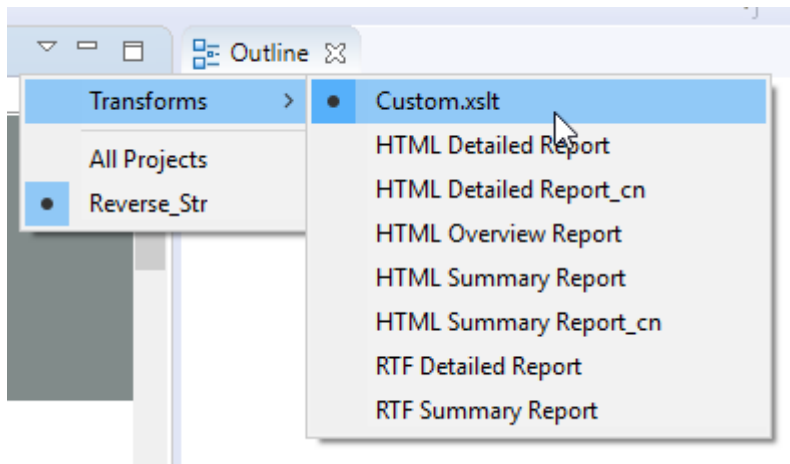


In the Workspace Preferences open **Cantata > Appearance > Report Viewer**. Click the “add” button and select the new XLST file that you created. If desired this new transform format can be set as the Default Transform.

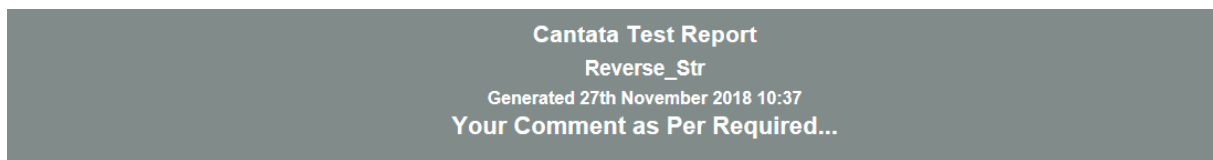


Now run the test. If the Report Viewer window is not already open, then open it by selecting it from, **Cantata > Views > Report Viewer**, or using keyboard shortcut, [Ctrl + Alt + Q, V].

Within the Report Viewer, use the  menu button to select Transforms drop-down menu, where the modified transform will be visible for selection.



When selected, the HTML report will contain the EXTRA LINE OF TEXT at the top of the report as below:



Project Information

Test Script Info

Modified example Cantata Full HTML report (test_report.html)

Troubleshooting

In some cases, the path in the line added to the XSLT file may need to be edited. This will need to be done if the comment is not located in the standard place in the directory. To find the comment, open the Cantata test_report.xml in the XML editor to see the XSLT files. Open the **testResults** node, and search in the **testScript-Body** node. Once the comment is found, amend the path in the XSLT file as if each node opened is a folder, as shown in the example below.

Test Case Editor Test Properties test_report.xml Report Viewer	
Node	Content
xml	version="1.0" encoding="US-ASCII" standalone="no"
xml-styleSheet	href="file:/C:/qa_systems/Customisations/Custom.xslt" type="text/xslt"
testReport	
xmlns:xsi	http://www.w3.org/2001/XMLSchema-instance
generated	27th November 2018 10:37
xsi:noNamespaceSchemaLocation	test_report.xsd
project	
testResults	
testScript	
info	
summary	
testScriptBody	
nonTestCase	
contents	
userComment	
position	
comment	Your Comment as Per Required...
testCase	
testCase	
testCase	
coverageReport	

```
<xsl:value-of select="testResults/testScript/testScriptBody/nonTestCase/contents/userComment/comment"/>
```