

Report Writer User Guide

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1 Introduction

1.1 Preface

This document is the TETware Report Writer User Guide.

TETware is a Test Execution Management System that takes care of the administration, reporting, and sequencing of the tests providing a single common user interface for all of the tests that you develop.

TETware has been tested and used on UNIX, Linux and Windows operating systems.

Throughout this document, the Windows NT, 2000 and 9x operating systems are referred to collectively as **Win32** systems. The individual names are only used when it is necessary to distinguish between them.

1.2 Audience

This document is intended to be read by systems administrators who will install TETware or TETware *professional* on their computer systems, and by software testing engineers who will use TETware or TETware *professional* to run verification test suites.

1.3 Conventions Used in this Guide

The following typographic conventions are used throughout this guide:

- Courier font is used for function and program names, literals and file names. Examples and computer-generated output are also presented in this font.
- The names of variables are presented in *italic font*. You should substitute the variable's value when typing a command that contains a word in this font.

• **Bold font** is used for headings and for emphasis.

1.4 Related Documents

Refer to the following documents for additional information about TETware professional:

TETware *professional* User Guide TETware *professional* Installation Guide TETware *professional* Demonstration Guide TETware *professional* Release Notes TETware *professional* Help Pages TETware *professional* Real Time and Embedded Systems Extension

Refer to the following documents for additional information about TETware

TETware Programmers Guide TETware User Guide TETware Installation Guide

1.5 Problem Reporting

If you have subscribed to TETware or TETware *professional* support and you encounter a problem while installing and using TETware or TETware *professional*, you can send a support request by electronic mail using the dedicated email address that is provided. Evaluators should email to tetware_manager@opengroup.org

All Problem Reports are welcome and actively encouraged. The more problems that are found and fixed the better the product will be. Please submit all bugs and queries found. Also, please submit requests for features and upgrades.

2. User Guidelines

2.1 Syntax

```
grw [-c content ] [-f html|chtml|text] [-o out] [-p pagewidth] \
       [-s stylesheet] [journal]
```

2.2 Description

grw parses a TETware journal file and produces a more readable version of the journal as a "report" document. It is designed to produce the report in a variety of different document formats. HTML and plain text are supported by default.

'journal' is the path of the input file, i.e. the journal file for which the report is to be generated. "-" indicates standard input.

2.3 Options

```
-f html|chtml|text
```

Specify the document format for the generated report. html HTML chtml HTML with Color Information text Plain Test

-c content

Specify the content and layout of the generated report. 'content' is either:

(a) (Simple case) An integer from 1 - 7. Where:

- 1 Summary table(s).
- 2 Summary table(s). Summary breakdown, excluding passes.
- Summary table(s).
 Summary breakdown, including passes.
- 4 Summary table(s). Simple inline report, excluding passes.
- 5 Summary table(s). Full inline report, excluding passes.
- 6 Summary table(s). Full inline report, including passes.
- 7 Summary table(s).Full inline report, including passes.Extra detail in inline report.
- (b) (Configurable case) An expression specifying the content. This has the following format (regular expression syntax):

[bce]+[TBI]+[pifxc]*

Where

- b build mode
- c clean mode
- e execute mode
- T summary table
- B summary breakdown
- I inline report
- p include detail of passes
- i introductory information
- f fuller inline report includes info lines and other tcc/tcm/testcase output
- x extra detail into inline report
- c include configuration

E.g. "bTBpi", "becTI".

-o out

Specify the name of the file to take generated output. "-" indicates standard output.

-p pagewidth

Specify the page width of the generated output, in bytes. The default is 79. ("text" format only).

-s stylesheet

Specify a URI of a stylesheet to link to in the generated HTML. ("chtml" and "html" formats only).

Running grw with no options is effectively:

grw -c 3 -f html -o - -

i.e. read from standard input, write to standard output, produce HTML without colour information, to content level 3.

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3 Programmer Guidelines

This section is for programmers who would like to modify or extend the report writer in some way.

3.1 Architecture

The process of producing a report from a TETware journal can be thought of as a pipeline.



Component	Source Files	Public Functions	Description
Front-end	main.c	main()	Program entry point
Parser	parser.	grw_parsejournal	Parses journal, line by line, and hands
			parsed line items to handler
Handler	handler.c	grw_beginjournal()	Controls content and layout of generated document
		grw_handleline()	
		grw_endjournal()	
Formatter	formatter.c	grw_createformatter()	Provides a format independent API for writing
	formatter.h	grw_begindocument()	documents. Also acts as a layer to perform generic
		grw_enddocument()	
		grw_printh1()	
		grw_printh2()	
		grw_printh3()	
		grw_print()	
		grw_starttable()	
		grw_endtable()	
		grw_startrow()	
		grw_endrow()	
		grw_printcell()	
		grw_startcell()	
		grw_endcell()	
		grw_startulist()	
		grw_endulist()	
		grw_printlistentry()	
		grw_breakline()	
		grw_printhline()	
HTML Formatter	html.c	grw_createhtmlformatter()	Produces HTML
Text Formatter	text.c	grw_createtextformatter()	Produces plain text
		- 0	

Remaining source files:

Description	Source Files
Overall header file	grw.h
Copy of TETware journal defines	tet_jrnl.h
General utilities	utils.c
	svector.c

3.2 Adding a new document format

Adding a new document format is a matter of plugging in a new component at the end of the pipeline, alongside the "HTML Formatter" and "Text Formatter". Here is an outline of the process:

- 1. Create a new source (.c) file implementing a (public) function which will create a new formatter. The existing functions are called grw_createhtmlformatter() and grw_createtextformatter(), so a good name would be grw_createDDDformatter(), where "DDD" is the name of the new document format. The routine must return a pointer to a newly allocated grw_formatter_t structure, with all the function pointers set.
- 2. Add a prototype for the new grw_createDDDformatter() function to grw.h.
- 3. Edit main.c to call the new routine when the '-f' flag has the relevant value.
- 4. Add the new source file to the makefile.
- 5. Rebuild.

3.3 Changing inbuild defaults

Certain pieces of default information are compiled into the program, but are easily modified in the source. For example:

Information	#define(s)	Source file
Default document format	DEFAULT_FORMAT	main.c
Default content level	DEFAULT_CONTENT	main.c
Basic content levels	CONTENT_L1 CONTENT_L7	handler.c
HTML colours	COLOR	html.c
Default pagewidth	DEFAULT_PAGEWIDTH	text.c

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4 Using the Report Writer in TETware *professional*

4.1 Configuring the TETware Report Writer

Depending on what information you require in your report, you can decide to check or uncheck the boxes next to the relevant variables (please see Figure 1). Some boxes are required while others are optional.

Report Generator:

This variable enables you to specify the location of TETware Report Writer. The default location is C:*tet_root*\bin\ (where 'C' is the Drive letter, *tet_root* is your TETware *professional* root directory and 'bin' is the sub-directory)

Format:

This specifies which document format you will want for the generated report. Either:

- Html Results can be viewed in HTML Format or
- Text Results can be viewed in test (txt) Format

Mode of Operation:

You will be able to specify which mode of operation should appear in the report. Any combination of the following can be chosen: Build, Execute or Clean. For more information on Modes of Operation please see Section 2.6 of the TETware *professional* User Guide.

TETware professional					
File Run Config Import Wizards Help					
	罪 🗋 🗊 📶 🖀 🤣				
Test Runs	TETware Report Writer Database Setur	Database Generic Report Writer			
P Remote Demo	Report Generator: Specify the location of the Report Writer		Browse Clear		
🕈 🏑 Configuration					
iocal system	Specify the document format for the generated report	● html ○ text			
002 : Venus	-Modes Of Operation:				
005 : Jupiter	Specify which modes of operation you wish to appear in the report	Build Execute			
Execution Output		🗌 Clean			
Journal	Report Type:				
er ≢ ≣ tet scen	Specify the Type of Report required	Summary_Table			
		Summary_Breakdown			
	Report Details: Specify any extra details you require	Include Dataile of DASSES			
			1999		
		Fuller_inline_report			
		Extra_details_in_inline_report			
		Include_configuration			
	-Output File:				
	Specify the name of the file to take the generated output		Browse Clear		
	Stylesheet: Specify a URL of a stylesheet to link to in		Provise Clear		
	the generated HTML		Di Wie Cical		
	Page Width:				
	Specify the page width of the generated output for text format. If this is not entered it will default to 79		Clear		
	-Journal:				
	Specify the path of the import file, i.e. the journal for which the report is to be generated		Browse Clear		
	generated		▼		

Figure 1: TETware Report Writer

Report Type:

This allows the user to specify the type(s) of report required. User can pick a combination of the following: -

Summary_table	Provides a summary of the results by mode of operation.
Summary_breakdown	Provides a summary of the results by mode of operation and test case.
Inline_report.	Provides a summary of the results by test case and mode of operation.

Report Details:

This allow user to specify any extra detail is required. Such details include:

Include_Details of PASSES	If this option is selected details of tests that PASS will be included. Not selecting this item can help locate problems.
Introductory_information	This adds the: TETware version; System information; Date of Test Run and Start time to the top of your Report.
Fuller_inline_Report	This is an Inline Report broken down by Test Cases and Test Purpose (TP). You must have selected Report Type: Inline_Report for this option to be available.
Extra_Details_in_inline_report	This adds Scenario information to the Inline Report. You must have selected Report Type: Inline_Report for this option to be available.
Include_configuration	This adds configuration information, by variable and value, to the top of the report (after introductory information).

Output File:

This specifies the name of the file to which you want the generated output to be written. (If this file is already in existence, then you can click on the Browse button to select the file). You must specify the path and the suffix as well as the file name.

Stylesheet:

This option or field applies only if the html format has been selected. If specified the URL of the stylesheet to link to in the generated HTML.

Page Width:

This option applies only to text format reports. It specifies the page width of the generated output. If this is not entered, it will use the default - which is 79 - will be used.

Journal:

This specifies the path of the import file, i.e. the journal from which the report is to be generated (This file can also be browsed and selected). After a Test Run has been executed this field is automatically completed. If the Test Run is saved the Journal name that was current when the Test Run is saved is also saved.

4.1 Creating a Report

Select the Run TETware Report Writer button on the toolbar.



You can then go and view your report at the appropriate location using a tool that is appropriate for the format selected, e.g. your browser if the Report is saved in HTML format.

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Appendix B

Notes

This Appendix contains three file listings

- 1. A Sample Journal File
- 2. A Sample Test Run Report Test Format
- 3. A Sample Test Run Report HTML Format.

Both of the Reports were produced from the Journal File using the TETware Report Writer from within TETware *professional*.

Sample Journal File

```
0|3.5-lite 13:49:38 20020325|User: alanh TCC Start, Command line:
E:\\TETware_professional\\bin\\tcc -bec -g _GUItetbuild.cfg -x
_GUItetexec.cfg -f _GUItetclean.cfg -p -s _scenTETfile
E:\\TETware_professional\\jdemo _TETallscen
5 Windows_NT ALAN_HAFFENDEN 5 0 586 System Information
20 e:/TETware_professional/jdemo/_GUItetbuild.cfg 0 Config Start
30 | TET_API_COMPLIANT=false
30 | | TET_BUILD_TOOL=E:\TETware_professional\bin\jet-build.exe
30 | | TET_OUTPUT_CAPTURE=true
30||TET_PASS_TC_NAME=true
30 | TET_RESCODES_FILE=tet_code
30 | TET_VERSION=3.5-lite
40 || Config End
20 e:/TETware_professional/jdemo/_GUItetexec.cfg 1 Config Start
30 | TET_API_COMPLIANT=true
30 || TET EXEC TOOL=E:\TETware professional\bin\jet-exec.exe
30 | TET_EXEC_IN_PLACE=true
30 | | TET_OUTPUT_CAPTURE=false
30 | TET_RESCODES_FILE=tet_code
30 | | TET3RT_MSS_TRACE2JNL=false
30 | | TET_PASS_TC_NAME=False
```

```
30 | | TET_VERSION=3.5-lite
40 || Config End
20 e:/TETware_professional/jdemo/_GUItetclean.cfg 2 Config Start
30||TET_API_COMPLIANT=false
30 | | TET_CLEAN_TOOL=E:\TETware_professional\bin\jet-clean.exe
30 | | TET_OUTPUT_CAPTURE=true
30 | TET_PASS_TC_NAME=true
30 | TET_RESCODES_FILE=tet_code
30 | | TET_VERSION=3.5-lite
40 || Config End
110 0 /ts/IntegerTC/IntegerTC 13:49:38 Build Start, scenario ref 1-0
130 0 0 13:49:50 Build End, scenario ref 1-0
10|1 /ts/IntegerTC/IntegerTC 13:49:50|TC Start, scenario ref 1-0
15|1 3.5-lite 3|TCM Start
400|1 1 1 13:49:51|IC Start
200|1 1 13:49:51|TP Start
220 1 1 0 13:49:52 PASS
410 | 1 1 1 13:49:52 | IC End
400|1 2 1 13:49:52|IC Start
200|1 2 13:49:52|TP Start
220 | 1 2 0 13:49:52 | PASS
410 | 1 2 1 13:49:52 | IC End
400|1 3 1 13:49:52|IC Start
200|1 3 13:49:52|TP Start
220 1 3 0 13:49:52 PASS
410 | 1 3 1 13:49:52 | IC End
80 1 0 13:49:52 TC End, scenario ref 1-0
300|2 /ts/IntegerTC/IntegerTC 13:49:52|Clean Start, scenario ref 1-0
320 2 0 13:49:53 Clean End, scenario ref 1-0
900|13:49:53|TCC End
```

Sample Test Run Report – Text Format

	++ TETware Test Run Report ++			
TETware version: System Information: Date of test run: Start time:	3.5-lite Windows_NT ALAN_HAFFENDEN 5 0 586 2002-03-25 13:49:38			
Configuration Information ====================================				
+ Variable	+ Value	+		
+	+ false	+		
TET_BUILD_TOOL	<pre>+</pre>	+		
TET_OUTPUT_CAPTURE true				
TET_PASS_TC_NAME	true	+		
TET_RESCODES_FILE	tet_code	+		
 TET_VERSION +	3.5-lite +	+		

Execute mode configuration for e:/TETware_professional/jdemo/_GUItetexec.cfg

24 June 2002

Variable	Value
TET_API_COMPLIANT	true
TET_EXEC_TOOL	E:\TETware_professional\bin\jet-exec.exe
TET_EXEC_IN_PLACE	true
TET_OUTPUT_CAPTURE	false
TET_RESCODES_FILE	tet_code
TET3RT_MSS_TRACE2JNL	false
TET_PASS_TC_NAME	False
TET_VERSION	3.5-lite

Clean mode configuration for e:/TETware_professional/jdemo/_GUItetclean.cfg

+ Variable	++ Value
TET_API_COMPLIANT	++ false
TET_CLEAN_TOOL	E:\TETware_professional\bin\jet-clean.exe
TET_OUTPUT_CAPTURE	true
TET_PASS_TC_NAME	true
TET_RESCODES_FILE	tet_code
TET_VERSION	3.5-lite

Build mode summary

+	++
Result	Count
+	++
Success	1
+	++
Failure	0
+	++
Total	1
+	++

Execute mode summary

+ -			+	+
	Result	Code	Count	
+ -			+	+
	PASS		3	
+			+	+
	Total		3	
+ -			+	+

Clean mode summary

+ •		++
	Result	Count
+ •		++
	Success	1
+ •		++
	Failure	0
+ •		++
	Total	1
+ -		++

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Build mode result breakdown ------

+----+ | Testcase | Result | +-----+ | /ts/IntegerTC/IntegerTC | Success | +----+

Execute mode result breakdown -----

PASS

- -

+	+			
Test case	Test purposes (IC.TP)			
/ /ts/IntegerTC/IntegerTC	1.1, 2.2, 3.3			
Clean mode result breakdown	ı			
	=			
+	++			
Testcase +	Result ++			
/ts/IntegerTC/IntegerTC	Success			
+	++			
T. 1				
Inline report				
/ts/IntegerTC/IntegerTC [build]				

+----+ | Test Status | +----+ | Success (0) | +----+

/ts/IntegerTC/IntegerTC [execute]

+		+	+	++
Ì	IC	TP	Result	Information lines
+	1	1	PASS	
+	2	2	+ PASS	
+	3	+ 3	+ PASS	
+		+	+	++

/ts/IntegerTC/IntegerTC [clean]

+----+ | Test Status | +----+ | Success (0) | +----+

Sample Test Run Report – HTML Format

TETware Test Run Report

TETware version: 3.5-lite

System Information: Windows_NT ALAN_HAFFENDEN 5 0 586

Date of test run: 2002-03-25

Start time: 13:49:38

Configuration Information

Build mode configuration for e:/TETware_professional/jdemo/_GUItetbuild.cfg

Variable	Value
TET_API_COMPLIANT	false
TET_BUILD_TOOL	E:\TETware_professional\bin\jet-build.exe
TET_OUTPUT_CAPTURE	true
TET_PASS_TC_NAME	true
TET_RESCODES_FILE	tet_code
TET_VERSION	3.5-lite

Execute mode configuration for e:/TETware_professional/jdemo/_GUItetexec.cfg

Variable	Value
TET_API_COMPLIANT	true
TET_EXEC_TOOL	$E:\TeTware_professional\bin\jet-exec.exe$

TET_EXEC_IN_PLACE	true
TET_OUTPUT_CAPTURE	false
TET_RESCODES_FILE	tet_code
TET3RT_MSS_TRACE2JNL	false
TET_PASS_TC_NAME	False
TET_VERSION	3.5-lite

Clean mode configuration for e:/TETware_professional/jdemo/_GUItetclean.cfg

Variable	Value
TET_API_COMPLIANT	false
TET_CLEAN_TOOL	E:\TETware_professional\bin\jet-clean.exe
TET_OUTPUT_CAPTURE	true
TET_PASS_TC_NAME	true
TET_RESCODES_FILE	tet_code
TET_VERSION	3.5-lite

Build mode summary

Result	Count	
Success	1	
Failure	0	
Total	1	
Execute mode summary		

Result C	ode C	ount	
PASS		3	
Total		3	
Clean mode summary			
Result	Count		
Success	1		
Failure	0		
Total	1		

Build mode result breakdown

Testcase

Result

/ts/IntegerTC/IntegerTC

Success

Execute mode result breakdown

PASS

Test case Test purposes (IC.TP)

1.1, 2.2, 3.3

/ts/IntegerTC/IntegerTC

Clean mode result breakdown

TestcaseResult/ts/IntegerTC/IntegerTCSuccess

Inline report

/ts/IntegerTC/IntegerTC [build]

Test Status

Success (0)

/ts/IntegerTC/IntegerTC [execute]

IC	ТР	Result	Information lines
1	1	PASS	
2	2	PASS	
3	3	PASS	
/ts/IntegerTC/IntegerTC [clean]			

Test Status

