



Razorcat Development GmbH
Witzlebenplatz 4
14057 Berlin
Germany

Technical Support

phone	+49 - (30) - 536 357 0
fax	+49 - (30) - 536 357 60
email	support@razorcat.com
www	http://www.razorcat.com

Release Notes

Release v5.0.4 (180 items)

ASAP Conversion

TES-3541

Added support for LINEAR keyword.

Enhancement

ASAP Conversion

TES-4189

Fixed reading ASAP information for parameter in source files without global variables.

ASAP Conversion

TES-4191

Apply conversion also for testing of MATLAB models.

Enhancement

ASAP Conversion

TES-4226

Also apply ASAP Conversion to function return when the attribute 'Enable ASAP Parameter' is true. The functions name is used for the conversion rule.

Enhancement

Batch Operation

TES-4249

Fixed possible stuck of multiple tests under high system load.

Batch Operation

TES-4528

Fixed reading "Report Classification" and "Expand Attributes" report options from batch operation XML file.

Batch Operation

TES-4676

Decreased execution time of batch tests with coverage measurement.

Enhancement

C++

TES-4218

Fixed parser error if a method gets a pointer of its class and accesses a member of a base class by that pointer.

Release v5.0.4 (180 items)

C++

TES-4234

Fixed evaluation of class member targets when Attribute 'Generate Constructors' is false.

C++

TES-4253

Fixed missing return type in stub code methods for constructors.

C++

TES-4274

Fixed setting break point at TESSY_TestobjectCall for C++ compilers that modify the function name with name mangling.

C++

TES-4280

Erroneous namespace was generated for method stubs, when the namespace contains a class with the same name as the namespace.

C++

TES-4283

Fixed parser error if template class with recursion pointers are used. [e.g. json template library]. To activate this you need to add '-TES-4283' to the Parser options attribute or change the parser call in your IDBMake Makefile file.

C++

TES-4284

Fixed failing instrumentation for functions with the name that exists in multiple namespaces.

C++

TES-4290

Fixed generating stubs for functions in anonymous namespace.

C++

TES-4304

Fixed failing instrumentation for functions with same name in same namespace.

C++

TES-4417

Fixed error in test driver when constructor parameter is a reference to a template that uses a pointer as type.

C++

TES-4467

Code to get/set members for a dynamic class was not generated when the class pointer is the component of a dynamic struct.

C++

TES-4482

Fixed error in generated test driver when a destructor was stubbed.

Release v5.0.4 (180 items)

C++

TES-4490

Added preference option to hide namespaces and class names within the Test Project view.

C++

TES-4542

Fixed possible assertion in parser when comparing declarations from different source files.

C++

TES-4573

A wrong cast with erroneous namespace was possibly generated for an enum that is used in as class member but is declared inside another class in a different namespace.

CTE

TES-2142

TESSY will now update the CTE root name with the test object name when opening a CTE document in TESSY. Please note: The respective test object needs to be executed again to reflect the updated name within the test report.

Enhancement

CTE

TES-3484

Deactivate automatic tree generation for CTE documents of component tests.

Enhancement

CTE

TES-3788

Added feature "Update generated tree based on interface changes". Activate this feature in "Preferences" > "CTE" > "Tree Generation" > "Update generated tree based on interface changes". The CTE document will then be updated with elements not present in the actual tree but in the generated tree.

Changes to a previously generated tree can be detected only if the node elements are still attached to the respective interface element.

New Feature

CTE

TES-4060

CTE images will be generated during report generation and not during test execution.

Enhancement

CTE

TES-4243

Fixed error message if CTE node cannot be attached to associated array index nodes.

CTE

TES-4395

Add new Feature "Update names of nodes with attached interface elements" before this feature only nodes attached to global interface elements with a dictionary entry are updated.

This feature is deactivated per default which will change in TESSY Release 5.1

Enhancement

CTE

TES-4425

The index in the last row of a CTE node attached to an array element is now allowed to be solely an index. Before that change an identifier had to be before the index.

Enhancement

Release v5.0.4 (180 items)

CTE

TES-4493

Fixed CTE documents of variants are updated although marked read only.

CTE

TES-4505

Fixed that generated CTE nodes linked to an obsolete passing were not deleted.

CTE

TES-4507

Fixed an issue where automatic updates on generated CTE trees were not saved if the user did not make any other modifications.

CTE

TES-4508

Fixed an issue where the CTE update algorithm does not find already attached CTE nodes.

CTE

TES-4525

Fixed memory leaks in the CTE.

CTE

TES-4544

Fixed the blue "data-assigned" indicator in CTE that was not working for overwritten values.

CTE

TES-4575

Improved error message the CTE produces when no index range is found for a node associated with array elements.

CTE

TES-4590

CTE-179 Meta information can be seen and manipulated in the Properties view. The default text of comments shows variable usage to show this information in comments.

CTE-568 The type of a mark can be changed in "circle", "square" and "triangle". There is no special handling behind types. Their purpose is for documentation and user defined workflows.

CTE-584 Fixed that the change of width of test table name column moves the sub trees in refinements correctly.

Enhancement

CTE

TES-4591

CTE-582 Newly created CTE nodes will be in quick edit mode for the name.

Enhancement

CTE

TES-4617

Fixed association with wrong interface elements when advanced stubs are present in the interface of a test object. It is recommended to verify CTE documents since erroneous behavior cannot be detected by TESSY. Suspicious are missing attachments or attachments to interface elements on generated nodes which describe advanced stub calls. This error was introduced with TESSY v4.3.16 and is present also in TESSY v4.3.17.

Release v5.0.4 (180 items)

CTE

TES-4630

Fixed omitted test data for array elements in complex union structures.

Command Line (tessycmd)

Enhancement

TES-4256

New command line option --disable-autoreuse for TESSYD to disable that test objects with changed interfaces are executed.

Command Line (tessycmd)

Enhancement

TES-4394

Added a command line option for tessyd to skip module analysis when running tests in headless mode. This mode can also be activated by setting a Windows environment variable TESSY_SKIP_MODULE_ANALYZE=1.

Command Line (tessycmd)

TES-4487

tessycmd get-attribute now expands file or folder attributes.

Command Line (tessycmd)

Enhancement

TES-4515

The save-db action from the TESSY command line will now include tasks inside a project, test collection or folder.

Compiler/Target/Microcontroller

Enhancement

TES-4625

Implemented support for "Resource List" attributes within attribute Slave Call.

Component Test

TES-4388

Variable TS_CURRENT_TIMESTEP was not visible in fault injection code.

Coverage Measurement

Enhancement

TES-4523

Now functions from files on "Header File Exclude List" will not be instrumented for call trace and coverage measurement any more.

Coverage Measurement

TES-4545

Fixed error when calculating MCC coverage totals on module level in the rare case of huge numbers of condition combinations, resulting in integer overflows.

Coverage Measurement

TES-4609

Fixed the total and reached number of statements displayed within the C0 statement coverage TXT reports. The statement coverage values themselves were calculated correctly.

Coverage Viewer (CV)

Enhancement

TES-4231

The coverage viewer (CV) as well as the statement/branch C0/C1 coverage reports will now show line numbers and source file contents also for inline functions within source files.

Release v5.0.4 (180 items)

Coverage Viewer (CV)

TES-4587

Fixed exception when no test object was selected and the "Show Coverage" toggle button was pressed within the "Called Functions" view within the coverage viewer (CV).

Defines

Enhancement

TES-4212

Improved performance of defines parser.

Defines

TES-4319

Fixed missing defines if a comment is present. [e.g. #define VALUE 1 /* comment */]

Defines

TES-4345

Fixed define directive concerning ARM V5 compiler occurring during analyze.

Defines

TES-4527

Fixed parsing of a macro with another macro as value which is defined in another source file in the same module.

Defines

TES-4632

32 bit define Values with suffix 'L' were calculated with 16 bit width for 16 bit compilers.

Driver

Enhancement

TES-3162

New Attribute 'Generate Defines Exclude List'. One or more defines can be specified that are not generated to the test driver file.

Driver

TES-3273

When generating a test driver with many dynamic objects of huge structures driver32.exe was possibly running out of memory.

Driver

Enhancement

TES-4101

Stub code for local functions and C++ methods is generated to an own function at the end of a source file to avoid errors due to not declared types or variables at the location of the stubbed function.

Driver

TES-4106

A wrong cast was generated for pattern test when setting the pattern to a function pointer with const pointer parameter.

Driver

TES-4266

Fixed possible conflicts of user defines and parameter declarations from slave header files.

Release v5.0.4 (180 items)

Driver

TES-4281

Fixed Pattern Test

- Pattern Test code was generated for some variables that are not allowed to be used for Pattern Test.
- Pattern Test is applied to local static variables but in TIE 'Apply Pattern = No' was displayed.

Driver

TES-4322

Dynamic objects where possibly set in wrong order for test object in modules with multiple source files.

Driver

TES-4328

Fixed omitted parameter names in stub functions when 'Simplified Headers' are active.

Driver

TES-4333

User defines where unknown in Fault Injection code.

Driver

TES-4342

Generated test object call was invalid when a parameter is a typedef inside a template class.

Driver

TES-4343

Erroneous code was generated for IRRELEVANT class member variables.

Driver

TES-4347

Evaluate test data other than class members when an exception is thrown during constructor test.

Driver

TES-4374

Fixed error in generated driver if the test object parameter is a reference to a const pointer.

Driver

TES-4378

Fixed possible conflicts with stubbed functions and macros with equal name.

Driver

TES-4400

Advanced stub variables were not set or evaluated in test driver for a new test object if the user has not actively changed the interface.

Driver

TES-4410

Fixed possible error in driver with multiple source files when a static variable has the same name as a used struct component.

Release v5.0.4 (180 items)

Driver

TES-4492

Pattern Test was not working with targets using file communication.

Driver

TES-4511

Fixed generated code for advanced stub with const pointer parameter.

Driver

TES-4550

Fixed possible name conflict when a test object parameter a stub function parameter and a struct member have the same name.

Driver

TES-4554

Fixed error in test driver when a dynamic object was created from another dynamic object in a different memory location.

Driver

TES-4555

Fixed error in test driver when an untyped enum inside a struct has pass direction IN.

Driver

TES-4582

Fixed generating code for a static @far function returning pointer to @far memory. (Cosmic Compiler)

Driver

TES-4603

Generate defines for test object parameter names to user definitions.

Driver

TES-4604

Fixed generated code to get / set targets of advanced stub pointers.

Driver

TES-4636

Tests were aborted when the time loading interface database in the master exceeds the time the slave waits for an established communication.

Driver

TES-4637

Fixed generated type name for __int24 and __uint24 for Microchip XC8.

Environment Editor (TEE)

TES-3936

An error message will now be displayed, when saving of the TEE configuration fails due to missing write permissions of the configuration file.

Release v5.0.4 (180 items)

Environment Editor (TEE)

TES-4039

Implemented "Show Differences" button for the TEE when displaying multiple environments.

Environment Editor (TEE)

Enhancement

TES-4129

Renaming project environments will now be propagated to the modules using these environments.

Environment Editor (TEE)

TES-4232

Some compiler/target specific path settings that were overwritten within the internal configuration hierarchy were not shown as factory values within project environments (e.g. "Compiler Install Path" for "Wind River Tricore/Wind River WindISS" environment).

Environment Editor (TEE)

Enhancement

TES-4236

The names and values of selected attributes can now be copied to the Windows clipboard using the context menu.

Environment Editor (TEE)

TES-4397

Don't show empty groups in the Attributes View when a filter is active.

Environment Editor (TEE)

Enhancement

TES-4420

Use the Add-Includes-Dialog from the module properties also within the TEE.

Environment Editor (TEE)

TES-4446

If only flags of attributes were changed, a restart of TESSY was required to make them visible within the module properties.

Environment Editor (TEE)

TES-4451

Emit warnings only, if invalid environments are available within the configuration.xml file (which will be skipped while loading the configuration).

Environment Editor (TEE)

Enhancement

TES-4623

Remember the column width in the Attributes View when switching to a different environment in the Environment Editor.

Fault Injection

TES-4645

Fixed missing include of user declarations in case of fault injections being present.

Fault Injection

TES-4662

Fixed inserting fault injections in if ... else if cascades.

Release v5.0.4 (180 items)

Import/Export

Enhancement

TES-4006

Added importing and exporting fault injections to Excel import/export.

Import/Export

TES-4193

Fixed export of anonymous union member values for legacy parser.

Import/Export

New Feature

TES-4272

Added import of test details report XML files into test objects.

Import/Export

TES-4605

Set passing direction of advanced stub pointers to the passing direction of the target when importing test data.

Instrumenter

TES-4210

Failed to instrument function declared extern "C" and used as friend in a class.

Instrumenter

TES-4399

Fixed instrumentation problem with 'for' loops when qualified data types (e.g. `std::vector<int>::size_type`) were used within the initialization part of the loop.

Instrumenter

TES-4488

Fixed an access violation when instrumenting a declaration that spans multiple lines and contains preprocessor line information.

Instrumenter

TES-4512

Fixed syntax error in instrumented code when a casted tag type is returned and call pair coverage is active [e.g. `return (enum E) value;`]

Instrumenter

TES-4524

Fixed possible incorrect C0 coverage when there are superfluous curly braces around the function body [e.g. `int test() {{... return 42;}}`]

Instrumenter

Enhancement

TES-4586

Fixed erroneous calculation of total branches for branch (C1) coverage in case of mixed arithmetic and logical expressions (which will not be instrumented for coverage measurement, e.g. code like `"variable += (a ? 1 : (b == 1 || c == 2) << 4);"`). As a result, it was not possible to reach 100% branch coverage in such cases.

Instrumenter

TES-4614

Fixed parsing type declaration with missing space between key word and curly brace (e.g., `enum{...}`).

Release v5.0.4 (180 items)

Instrumenter

TES-4624

Fixed zero coverage values for extern "C" functions inside a namespace.

Instrumenter

TES-4647

A possibly incorrect case label in the coverage report has been fixed.

Instrumenter

TES-4677

Static functions are considered in CPC for component test also if they are unused in the scenario interface.

Enhancement

Interface Assigner (IDA)

TES-3167

Copy fault injections when assigning test objects in IDA.

Change function name in fault injections branch path, when the name of a called function changes.

Interface Assigner (IDA)

TES-4250

Fixed error when assigning a pointer parameter that changed to an array and the legacy parser was used.

Interface Assigner (IDA)

TES-4267

Fixed assigning renamed test object that already had a changed interface before.

Interface Assigner (IDA)

TES-4471

Show constants used in test data that are not in global variables.

Interface Assigner (IDA)

TES-4546

Fixed error when a C function is assigned to a C++ method.

Interface Database (IDB)

TES-2212

Reduced high consumption of memory by interface database in case of huge structures being used.

Enhancement

Interface Database (IDB)

TES-4217

Added an option to create a simplified interface for struct/union with a very large number of components. Without this the parser runs out of memory while building the interface database. The new attribute 'Simplified Header Folder List' may be used to specify a comma separated list of directories. If inline functions are located in a header file residing in such a folder, the parser uses simplified tag type object for these functions. These functions can not be used as test objects and advanced stubs can not be used.

Enhancement

Interface Database (IDB)

TES-4353

Changing type declarations inside an anonymous union required a manual interface reuse although an automatic reuse was possible.

Release v5.0.4 (180 items)

Interface Database (IDB)

TES-4393

If a variable or function was moved from unused to used and after module analysis the only interface change for a test object was a rename of this variable/function it was removed from the interface without triggering an interactive reuse.

Interface Database (IDB)

TES-4503

Fixed handling of parameter that is a pointer to an array

Interface Database (IDB)

TES-4535

Fixed handling of triple pointer (struct str ***variable).

Interface Editor (TIE)

TES-4135

Pass direction of non-static class member variables is always IRRELEVANT for static methods, since they can not be accessed by the method.

Interface Editor (TIE)

TES-4229

Add collapse button and filter to hide unstubbed functions and undefined variables in Test Interface Editor.

Enhancement

Interface Editor (TIE)

TES-4288

Arrays set to IRRELEVANT where displayed as UNDEFINED.

Interface Editor (TIE)

TES-4409

Advanced Stub Variables where displayed IRRELEVANT when the test object was a static class member function.

License Manager

TES-4278

Fixed taking into account TESSYD_CI_LICENSE_FLAGS environment variable.

Mutation Test

TES-4213

Fixed instrumentation error for return statements like this: "return (STRUCT) {.Member=42};".

Mutation Test

TES-4411

The mutation parser failed if a preprocessor statement is inside a condition.

Notes View

TES-2455

The notes view contents can now be exported as Excel XLSX format.

Enhancement

Release v5.0.4 (180 items)

Notes View

Enhancement

TES-3390

Added "Find" menu entry to select the source element for a note within the Test Project view. Also fixed wordings and layout and added some shortcuts.

Parser

TES-4023

Fixed possible incomplete structs in Interface Database when a module contains multiple source files where in one source a struct was declared abstract only.

Parser

TES-4208

Fixed GNU Tools for ARM TKS template file concerning asm.

Parser

TES-4211

Fixed collecting source files information for cygwin environments.

Parser

Enhancement

TES-4230

Updated TKS GNU ARM file.

Parser

TES-4242

Fixed parsing alignas specifier.

Parser

TES-4340

Fixed missing reuse being triggered when only the component name of a struct was changed.

Parser

TES-4568

Add support to handle C99 variable length arrays. [e.g. int Test (int size, int array[][size])]

Parser

TES-4577

Fixed wrong caption of path components on drives without 8.3 support

Parser

Enhancement

TES-4578

Use Compiler Install Path as default value for Header File Exclude List.

Parser

Enhancement

TES-4583

Fixed erroneous function interface database if structures with indirect recursion are present.

Parser

TES-4683

Fixed possible access violation with very huge structures in TESSY keyword scanner.

Release v5.0.4 (180 items)

Report

TES-3448

Added UUID, specification and description into requirement coverage report.

Enhancement

Report

TES-4279

Show enums used in test data in the test object interface.

Enhancement

Report

TES-4351

Added new report option "Report classification": The text will be printed into the footer of each report if not empty (e.g. "Restricted" or "Confidential" may be printed as report classification).

Enhancement

Report

TES-4352

Added "Expand attributes" test report option: This will expand all placeholders contained within the attribute values.

Enhancement

Report

TES-4372

Target of pointer to pointer was missing in report if the target had a different pass direction than the pointer.

Report

TES-4444

Fixed importing unions from report XML files.

Report

TES-4469

Changed placement of optional report classification: Now centered within the footer of the report.

Enhancement

Report

TES-4649

Added wrapping of long test object and variable names within the test details and test overview reports.

Requirements

TES-4287

Update last modified date for modules, test objects, tasks and test cases also when requirement linking has changed.

Requirements

TES-4470

Bugfix for ReqIF import from JIRA containing empty XHTML elements.

Save/Restore Database (TMB Files)

TES-4387

Metrics were missing at test objects with changed interface after restoring a backup.

Release v5.0.4 (180 items)

Save/Restore Database (TMB Files)

Enhancement

TES-4494

Include a module in the automatic module backup before shutdown if one of its test items has been included in or excluded from test execution.

Save/Restore Database (TMB Files)

TES-4621

Fixed problems with overwritten module attributes when restoring TMB files.

Scenario Editor (SCE)

Enhancement

TES-4019

Allow non-void functions to be set as Work Task for component testing.

Scenario Editor (SCE)

TES-4484

Fixed that static local variables were selectable in the mode variable combo box.

Script Editor

Enhancement

TES-2731

The module name is now suggested as file name in the script editor save dialog.

Script Editor

TES-4065

Support '*' in method signature for call trace in scripts.

Script Editor

TES-4262

Sort work tasks alphabetically in Script Editor.

Script Editor

Enhancement

TES-4370

Show line numbers by default in text editors.

Script Editor

TES-4619

Added preference option to write script files separately for each test item during database backup.

TESSY (General)

Enhancement

TES-4408

Reduced size of generated tks.exe files.

Test Data Editor (TDE)

TES-3943

After discarding changes in TIE the changes were not saved but still displayed in the GUI.

Test Data Editor (TDE)

TES-4104

Fixed error when entering the test object itself as function pointer target.

Release v5.0.4 (180 items)

Test Data Editor (TDE)

TES-4235

Fix exception when searching partitioned arrays in TDE using "Find Value".

Test Data Editor (TDE)

TES-4251

Fixed error when entering the test object itself as function pointer target at void*.

Test Data Editor (TDE)

TES-4339

TESSY terminated when expressions were used in dynamic objects and the Test Results View was opened.

Test Data Editor (TDE)

TES-4536

Enhanced tooltips for values.

Enhancement

Test Data Editor (TDE)

TES-4588

Allow setting ** to array of valid type.

Test Database (TDB)

TES-4204

Verification of test data was possibly interrupted by a NumberFormatException.

Test Database (TDB)

TES-4608

Possibly missing historical test data has been fixed.

Test Database (TDB)

TES-4618

Fixed potential deadlock if an error occurs when committing to the test database.

Test Database (TDB)

TES-4646

Possible dynamic union in report was marked "notok" if it was in a CTE tree node for a test case but actually not used in that test case.

Test Execution

TES-4133

Added menu entry 'Debug Test' which executes the test with the 'Define Breakpoint' option set.

Enhancement

Test Execution

TES-4338

Fixed test execution for MATLAB models (an error was introduced with TESSY v4.3.14).

Test Execution

TES-4416

Clear console before analyzing modules or checking sources if "Clear console and problems view" is enabled in the test execution settings.

Enhancement

Release v5.0.4 (180 items)

Test Execution

Enhancement

TES-4497

Add attribute to retry execution if the execution timeout has been reached.

Variant Management

TES-4202

Fixed test data verification of constants inside namespace during synchronization.

Variant Management

TES-4216

Fixed evaluation of expressions using defines in variant modules.

Variant Management

TES-4245

Fixed that a CTE file must not be generated in a variant for a test object without a CTE file.

Variant Management

TES-4468

Fixed possible incorrect assignment of test cases to a fault injection when creating a variant.

Variant Management

TES-4478

Fixed an error when overwriting values in arrays in a variant if the array size differs.

Release v5.0.3 (81 items)

ASAP Conversion

Enhancement

TES-3979

Allow ASAP Conversion for parameters by setting attribute 'Enable ASAP Parameter' true.

The parameter name should be unique, otherwise the conversion rule is applied to all parameter and global variables with this name.

Batch Operation

TES-3356

Apply report logo image and template path from TBS file when executing a batch test.

C++

TES-4029

Generate consistent script names for C++ test objects.

C++

TES-4045

Fixed an incorrect interface database when using a structure declared inside a class as a parameter of a template function.

C++

TES-4047

Fixed resetting advanced stub variables after a test object was called from the test objects class constructor.

Release v5.0.3 (81 items)

C++

TES-4114

Enhancement

Added feature to optionally create C++ singleton class constructors manually triggered by TEE attribute.

CTE

TES-3789

New Feature

The classification tree generation now considers variables with ASAP information available. Class nodes with physical values for minimum and maximum will be created in any case. For unsigned values a node for a mean value will be calculated and for signed values nodes for physical representation of -1, 0 and 1 will be created if they match the defined ASAP range.

CTE

TES-4050

Fix indirectly called methods are not generated in the called functions sub tree of the automatic CTE document.

CTE

TES-4055

Fixed that test sequences in migrated CTE documents were not correctly synchronized.

CTE

TES-4073

TESSY prevents now that copied test projects with custom folder layout get inconsistent CTE documents.

Component Test

TES-4132

A scenario containing only an INIT time step was marked as passed although containing failed eval macros.

Coverage Viewer (CV)

TES-4032

Fixed Coverage Viewer initialization being triggered unnecessarily.

Driver

TES-3295

UTF-8 byte order marks at the beginning of a source file will now be removed when generating the test driver.

Driver

TES-3946

Moved position of User Code Definitions in test driver.

Pointer targets defined in User Code Definitions must not be declared in User Code Declarations section anymore.

That was possibly resulting in a compiler error in tests with more than one source file, if a type not known in all source files was used in the declaration.

Driver

TES-4035

Fixed generated driver to not set const struct member in Pattern Test.

Driver

TES-4150

Fixed generating driver for test objects with indirect recursive call.

Release v5.0.3 (81 items)

Driver

TES-4162

Improved performance generating C++ test driver for modules containing large amounts of external classes.

Environment Editor (TEE)

TES-3828

Implemented show overwritten button for the TEE.

Enhancement

Environment Editor (TEE)

TES-3948

Added preference option to disable dialog for environment configuration errors.

Enhancement

Environment Editor (TEE)

TES-3986

Fixed problems with URL type attributes within TEE.

Environment Editor (TEE)

TES-4041

Fixed TEE's multiline attributes.

Environment Editor (TEE)

TES-4138

Added more attributes being editable on "All Environments" level (e.g. "CMSIS Path").

Environment Editor (TEE)

TES-4184

Optimized saving of configuration in case of many enabled compiler/target environments.

Instrumenter

TES-3973

If a static local variable of a tag type declared only in the function under test was used, then with call pair coverage (CPC) measurement turned on, the generated driver was syntactically incorrect.

Instrumenter

TES-4034

The possible absence of the ';' after a break statement resulted in a non-executable test with call pair coverage (CPC) enabled.

Instrumenter

TES-4054

Fixed incorrect instrumentation of an expression that uses a pointer to array cast (e.g. (char (*)[42]) NULL == variable).

Instrumenter

TES-4056

If call pair coverage (CPC) is enabled, the "Instrumentation Exclude List" attribute was not handled correctly and resulted in a lower C1/C2 coverage measurement result than actually achieved being reported.

Release v5.0.3 (81 items)

Instrumenter

Enhancement

TES-4131

New Attribute 'Instrumenter Consider Hide Functions'

If set to true the source files marked with 'Hide Functions' are excluded from instrumentation.

Interface Assigner (IDA)

TES-2513

In module reuse the test object specific stub settings of a called function with a changed name were not assigned when the calling testobjects name changed and it was assigned before the called functions.

Interface Assigner (IDA)

Enhancement

TES-3494

New dialog to move variables and functions that are not in the test objects initial interface to it.

Interface Assigner (IDA)

TES-3518

Fixed "Find Previous Unassigned".

Interface Assigner (IDA)

TES-4123

Abort reuse if an error occurred when assigning any of the funtions of a module.

Interface Assigner (IDA)

TES-4171

Fixed exception when double clicking a test object in the IDA perspective while a Compare View for its module is active.

Interface Database (IDB)

TES-4099

Fixed possible file access error on a CI System running with full load and with security software running in background.

Interface Database (IDB)

TES-4120

Automatic reuse of test objects where a constant of an enum parameter/return of a called function changes.

Interface Database (IDB)

TES-4144

Fixed finding and assigning applicable unnamed enums during compare/reuse.

Makefile Templates

TES-4083

Fixed communication Makefile for PLS UDE / TI TMS 570.

Mutation Test

TES-3814

Disregard "Execution Timeout" attribute for mutation tests.

Release v5.0.3 (81 items)

Mutation Test

Enhancement

TES-3911

Calculate mutation score for test objects with failed execution.

Mutation Test

TES-4181

Fixed a compilation error when building the test driver for mutation tests if the test object uses a sizeof operator for an expression that is not guarded with parens. [e.g. `if (sizeof array / sizeof array[0] > 10)`]

Parser

TES-4105

Fixed handling IAR localized integer format.

Parser

Enhancement

TES-4155

Updated Green Hills TKS files.

Parser

TES-4177

Fixed parsing of @-operator in tks-freescale.tpl

Parser

TES-4185

Fixed TKS file for Freescale compiler.

Project Handling

TES-4072

Do not require modules to be analyzed again after editing unrelated project settings.

Report

TES-4098

Fixed generating overview report for not executed component tests.

Requirements

TES-3939

Bugfix for ReqIF import with test mean mapping and empty values.

Requirements

TES-4025

Bugfix to enable the creation of a requirement document hierarchy again.

Save/Restore Database (TMB Files)

TES-2334

Save notes for component tests during database backup.

Scenario Editor (SCE)

TES-4097

Fixed error during (automatic) reuse of a Component Test from older versions of TESSY due to remnants of deleted time steps in the test database.

Release v5.0.3 (81 items)

Script Editor

TES-3408

Support '~' operator in script expressions.

Script Editor

TES-3894

Write fault injection test cases in script.

Script Editor

TES-3941

Improve formatting of evaluation macros in scripts.

Script Editor

TES-4071

Correctly recognize inactive union components as interface variables in Script Editor.

TESSY (General)

TES-2540

Add context menu to "Test Directory" section in Properties View.

Enhancement

TESSY (General)

TES-3246

Add notice that description, specification and comment for folders and test collections are not included in database backup.

Enhancement

TESSY (General)

TES-3479

Support key binding "Ctrl+A" in code editors.

Enhancement

TESSY (General)

TES-3952

Updated the windIDEA OBTI connection.

TESSY (General)

TES-4011

Fix error message "Entity does not exist" when updating the Test Data Editor or Test Definition View.

TESSY (General)

TES-4053

Due to the absence of the zenity package, no error dialog was displayed when TESSY failed to connect to the license server at startup.

Enhancement

TESSY (General)

TES-4061

Expand modules bypassing analyze when using "Find" command on test objects in Status Dialog or Problems View.

Release v5.0.3 (81 items)

TESSY (General)

TES-4066

Show error message when attempting to analyze modules containing test objects with names longer than 1024 characters.

TESSY (General)

TES-4075

Fixed TESSY startup problem if /usr/bin/bash is missing.

TESSY (General)

TES-4122

Improvements to test object filter:

- Improved performance of the filter dialog for large projects.
- The filter can only be applied to test objects without any test cases, and will automatically be removed for test objects that have at least one test case.

Enhancement

TESSY (General)

TES-4432

Fixed UnsupportedOperationException when invalidating a test run.

Test Data Editor (TDE)

TES-2909

Refresh filter results in Test Data Editor when changing perspectives.

Test Database (TDB)

TES-4040

A possible null pointer exception when displaying historical test data has been fixed.

Test Database (TDB)

TES-4068

A possible null pointer exception when setting a pointer target and the name of the target could not be determined has been fixed.

Variant Management

TES-4043

Do not execute deleted variant test steps.

Variant Management

TES-4070

Allow using the "Synchronize Modules" operation for test collections, folders, and any selection containing one or more parent or variant modules.

Enhancement

Release v5.0.3 (81 items)

Variant Management

Enhancement

TES-4076

Improvements to module reuse:

- Added filter button in IDA to hide completely assigned elements.
- Added filter button in IDA to hide assigned elements with warnings.
- Added text filters in IDA.
- Added "Expand All" and "Collapse All" buttons in IDA.
- Deassigning multiple elements at once is now possible.
- Test objects cannot be committed if the corresponding module is open in the IDA.
- Changed sort order of interface element groups in IDA.
- "Functions" has been split into "Test Objects" and "Functions" in IDA.
- Automatically assign elements according to previous assignments to avoid having to repeat the same assignments.

Variant Management

TES-4077

Missing stub code in variant module if a manual assignment of the interface was necessary during synchronization.

Variant Management

TES-4079

Fix exception when replacing a missing parent module in the Properties View.

Variant Management

TES-4113

Fixed erroneous synchronization warning after saving/restoring of module TMB backups (caused by updates of the last modified time stamp of parent modules). This problem was introduced with TES-3707 in TESSY v4.1.29, v4.2.15 and v4.3.6.

Variant Management

TES-4116

Fixed incorrect progress when synchronizing multiple modules at once.

Variant Management

Enhancement

TES-4121

Added "Force Reuse" option in Synchronize Module Dialog.

Variant Management

Enhancement

TES-4125

Erroneous test data was not marked in red in the CTE test data view in variant test objects.

Variant Management

TES-4153

Fixed setting initial pass direction of advanced stub variables in variant module when synchronizing with parent.

Variant Management

TES-4157

Fix importing test data for variant test objects when using the "Overwrite existing test cases" option.

Release v5.0.3 (81 items)

Variant Management

TES-4167

When synchronizing a variant module use of IDA was always required if the interface contained a structure with a recursive pointer.

Variant Management

TES-4176

Fixed a null pointer exception when synchronizing a module, if the parent module uses expressions as test data for an interface object with passing direction IRRELEVANT in the variant module.

Release v5.0.2 (3 items)

Compiler/Target/Microcontroller

New Feature

TES-3887

Linux porting of the combinations Arm compiler with Arm Development Studio and Linaro compiler with Arm Development Studio. Also ARM DS-5 is supported for these compilers.

Compiler/Target/Microcontroller

New Feature

TES-3949

Added Linux support for Green Hills Arm compiler with Green Hills MULTI and Lauterbach TRACE32 debuggers.

TESSY (General)

New Feature

TES-3416

TESSY is now available also for Linux platforms, starting with Ubuntu 20.04. Legacy versions will not be supported officially.

Further Linux distributions will be supported successively on demand.
