Controller Tester Release Note

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1. Improvements

Improved import project

- · Automatic toolchain selection when selecting a project to import
 - If you select the path to the project folder to import in the import project view, the toolchain used in the project is automatically selected when it is registered in Controller Tester.

Import			• 🔀
Import a Project Import the exporte	ed project.		
Project directory:	D:\projectIE_20200513113853	Searc	:h
Project name:	projectIE		
Location:	C:\Users\vagrant\Desktop\workspace\C	Τ/1	
Select Toolchain			
Default	Toolchain Name	Description	
	gcc 8.4		
	vs2019 x64_x64		
	vs2019 x64_x86		
	vs2019 x86_x86		
	GCC 4.7 (32bit)	Automatically generated.	
	GCC 5.3 (32bit)	Automatically generated.	
		Toolchai	n Setting
		< Back Next > Finish Cano	cel

- · A function to check and correct an invalid path among the source file paths of the project to import
 - If you edit one path, all paths that can be found in the relative path are automatically corrected.

import	
Check the paths included in the project	
A Invalid path: 15/15	
Path(click to edit):	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\adler32.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\crc32.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\deflate.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\gzclose.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\gzlib.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\gzread.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\gzwrite.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\infback.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\inffast.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\inflate.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\inftrees.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\trees.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\uncompr.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.11\zutil.c	
C:\Users\seo hyunji\Desktop\target plugin\zlib-1.2.11\zlib-1.2.13\compress.c	
< Back Next > Finish	Cancel

Import				
heck the paths included in the project				
 Invalid path: 0/15 15 paths have been resolved. 				
ath(click to edit):				
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\adler32	?.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\compr	ess.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\crc32.c	:			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\deflate	.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\gzclos	e.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\gzlib.c				
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\gzread	.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\gzwrite	a.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\infbac	c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\inffast.	c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\inflate	c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\inftree	5.C			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\trees.c				
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\uncom	pr.c			
C:\Users\vagrant\Desktop\source\zlib1211\zlib-1.2.11\zutil.c				
	< Back	Next >	Finish	Cancel
	N DdCK	Next >	Finish	Cancel

Improved filtering of files included in the project

When applying filters to files included in the project in the test navigator view, the system header can also be filtered.

Improved the test perspective view display function

Improved the test perspective to be opened in the lower left corner of Controller Tester when all views except unit/integrated test views are opened.

Improved the ability to open stub view association tests

When using a stub in the Controller Tester project, clicking the test in the associated test list in [Stub View] has been improved to select the test in [Unit Test View].

Improved the type display function when generating a report for each test

When generating a report for each test, the expression type has been changed to be the same as the type expressed in the tool.

2. Added feature

- Added test case debug information inspection function
- Add supportable toolchains
- Add debugger preset for target test support
- Added function to delete project test results

2.1. Added test case debug information inspection function

Added Inspect debug info

If an error occurs while running the test case, you can use the Inspect debug info check function to determine the cause of the error.

	Сору	Ctrl+C
	Paste	Ctrl+V
	Duplicate	Ctrl+D
	Duplicate multiple times	
×	Delete	Delete
	Add Test Case	
	Host Output Value -> Expected Value	
	Target Output Value -> Expected Value	
Ŀ	Run Test Case	
٢	Run Target Test Case	
	Add Stub	
	Open Host Error Loaction	
ð.	Inspect Debug Info	

Before executing the test case, the test case is automatically executed before performing [Inspect debug info].

When [Inspect debug info] is executed, the debug information is displayed in the [Debug Information View].

Debug Information 🔀			(×)=
est Case (test/func_test0) #1			
tack trace:	List of variable/expression:		
✓ ♣ [Project: test] test run	Variable/Expression	Value	Location
func3(signed int *) at test1.c:42 func2() at test1.c:30	p (test1.c: 40)	12319812	before line
func(signed int) at test1.c:12			

Display debug information in the debug information view

The debug information view shows information to help you determine the cause of an error in a test case.

- · Trace function calls in test cases with errors
- Actual value of variable/expression added to inspect debug information

If you select a test case that has [Inspect debug info] in the unit test view, debug information is displayed in the Debug Information view.

🎁 Debug Information 🖂			(×)=
Test Case (test/func_test0) #1			
Stack trace:	List of variable/expression:		
 ✓ ♣ [Project: test] test run 	Variable/Expression p (test1.c: 40)	Value 12319812	Location before line

- The Stack trace shows the function call trace when the test case in error was executed. The location where the error occurred is displayed at the top.
- The variable/expression list shows the actual value of the variable/expression added to inspect the debug information.

Debug information view toolbar menu

icon	description	
(×)=	List of variable/expression to debug	

In the list of debug variable/expression, you can check and remove variable/expression.

E List of variable/expression			
List of variable/expression			
This is a list of variable/expression ad Unnecessary variable/expression can		, [Remove All].	
Variable/Expression	Туре	Location	Remove
a (test1.c : func3) line:46	Integer	before line	
a (test1.c : func3) line:46	Integer	after line	Remove All
b (test1.c : func2) line:27	Integer	before line	
p (test1.c : func3) line:40	Integer	before line	
		ОК	Cancel
			Currer

Add/delete variable/expression to inspect debug information in the source code editor

When performing Inspect debug info, you can add variable/expression to debug in the source code editor.

- 1. Double-click the line area in the source code editor
- 2. Select [Add Variable/expression to debug...] from the line area context menu in the source code editor
- 3. After specifying a variable or expression in the source code editor, select [Add Variable/expression to debug...] from the context menu.

When the above operation is performed, the [Add variable/expression to debug] window appears.

d Add va	iable/expression to debug		
Add varia	able/expression to debug		
	double-click on the line area to add or remove variables/expressions to debug at that location.		
:X: YOU G	an add variable/expression only to the shaded area. (D: before line, D: after line)		
Add All	Remove All		
	test()		*
85 { 86	int a, b;		
87	a = func(0);		
88	b = func(1);		
89	(-/)		
90	if (a < b) {		
91	return g(0);		
92	}		
93			
94	g(1);		
95	a = a + b;		
96 97			
98	while(a<0) { a:		
99	a; }		
100	1		
101	return 0;		
102 }			
103			
			-
			Þ
※ Enterin	g an invalid variable/expression can cause compilation errors or runtime errors.		
Variable/	Expression:		
variable/	Apression.		
Туре: 🔘	Integer 💿 Unsigned Integer 💿 Double 💿 String		
When	you select a test case, you can inspect the debug info at once.		
		ок	Cancel
			Cancel

2.2. Add supportable toolchains

GCC 8.x and Visual Studio 2019 toolchains have been added to the list of supported toolchains. GCC 8.x, Visual Studio 2019 toolchain can be added using the [Add Toolchain] function on the toolchain configuration page.

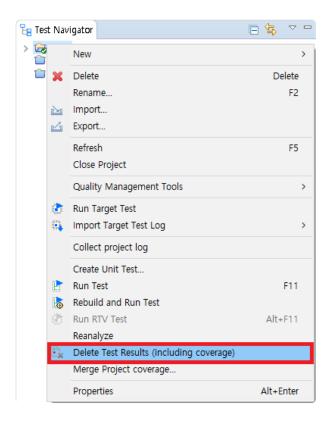
2.3. Add debugger preset for target test support (Target Plug-in)

IAR has been added to the list of debuggers supported by the Controller Tester Target Plug-in. When setting the target environment, if the IAR toolchain is selected, you can use the IAR debugger by selecting ide.

► IAR ► ARM-Compiler ► 5.x ► others ► ide

2.4. Added function to delete project test results

If you select the [Delete Test Results (including coverage)] menu from the project context menu of the Test navigator view, you can delete the results of the executed tests.



3. Improved user experience

Improved user manual accessibility

Users can check the Controller Tester manual on the web/mobile via public link.

Add tutorial

Users can learn how to use Controller Tester by practicing from Controller Tester project creation to test execution through a tutorial.

4. Bug fixed and feature deleted

- List of fixed bugs
- List of renamed features
- List of deleted features

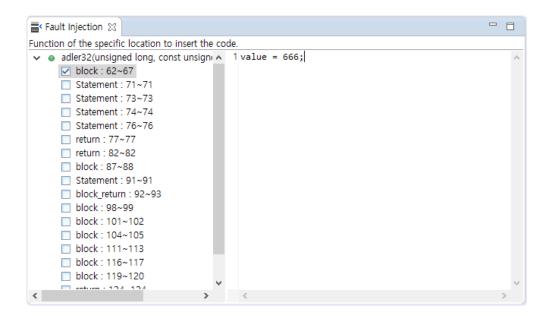
4.1. List of fixed bugs

- · Modify to add environment variable declaration when using gcc,cl toolchain in target test project
- · Correct the include path processing method when preprocessing the target test project
- Fix vcxproj file not import error, fix some PC not import error
- Fixed idSourceFie conversion issue
- Fixed an issue where the target type was changed to x86 when performing automatic extraction of tool chain information twice in visual studio 2017
- Fixed a bug where certain objects were not represented in the table when performing "View as Table" in the Test Case tab
- Fixed a bug where certain targets were not searched when searching in the test information and test case tabs
- · Error view to set encoding automatically in Chinese locale
- Target environment setting dialog title message modification and usability improvement related to file extension
- · Global log path exception handling when collecting project logs
- · Fixed an issue where the entry_point option did not work properly in the target environment
- Fixed error in generating test code containing wchar_t [] type
- As the policy is changed in relation to the ALTER TABLE RENAME (version: 3.25.0, 3.26.0), the problem that occurs in alter table rename during migration query
- ccs debugger target option added
- CS_INT_INPUT macro not working in stub
- · Added windriver gnu build script
- Fix IAR target test project unit test creation failure
- Fixed a problem where wchar_t type global variable was not created when using the cl compiler
- Fixed bug where the modified value was not reflected when moving the test case after modifying the value in the test case tab

4.2. List of renamed features

Changed the name of the existing [Insert Code View]

The name of the existing [Insert Code View] has been changed to [Fault Injection View].



4.3. List of deleted features

Removed the function to create binary for debugging test cases

When right-clicking a test case in the test view, the [Generate binary for debugging] menu displayed in the context menu has been deleted.

	Add Test Case Generate test cases automatically Host Output Value -> Expected Value Target Output Value -> Expected Value Initialize Test Case	>
	Сору	Ctrl+C
	Paste	Ctrl+V
	Duplicate	Ctrl+D
	Duplicate multiple times	
×	Delete	Delete
	Rename	F2
	Set related file	
	Relevant issues settings	
2	Import Test Data	>
4	Export Test Data	
	Large test data	>
	Generate binary for debugging	
	Add Stub	
	Select Test	
	Deselect Test	
CSU	Generate coverage report	

Deleted the old test perspective, the function to display the test view

The old test perspective and test view display functions have been removed.