

News in RSA-RTE 10.2

updated for sprint 2017.37

Mattias Mohlin, September 2017

Overview

- **Now based on Eclipse Oxygen (4.7)**
- **RSARTE 10.2 is currently an experimental release! Not everything that is present in RSARTE 10.1 is included yet. For example, EGit is not yet available.**
 - See the What's New presentation for RSARTE 10.1 to learn about new features that are also present in version 10.1



IBM Rational® Software Architect RealTime Edition

*** EXPERIMENTAL ***

Version: 10.2.0.v20170918_1055

Release: 2017.40

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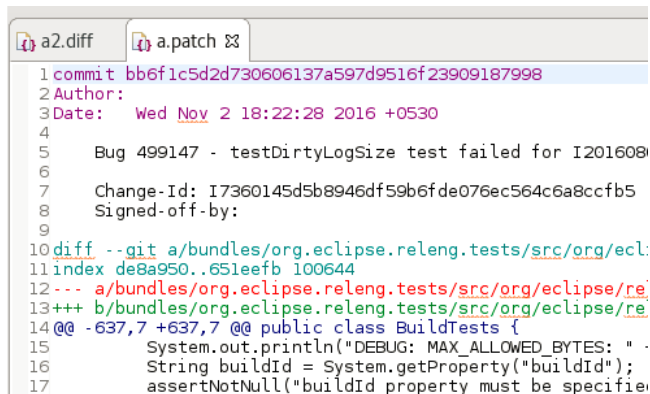
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Eclipse 4.7 (Oxygen)

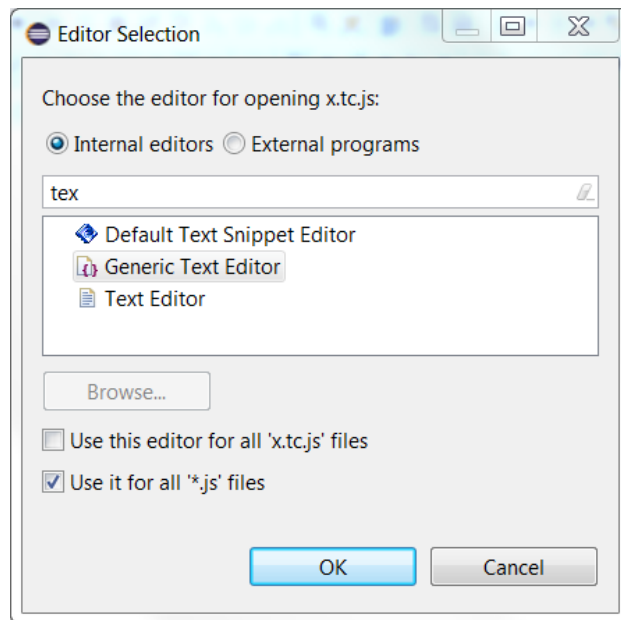
- New text editor ("Generic Text Editor")
 - Has some general improvements, such as support for syntax highlighting of .patch and .diff files



The screenshot shows an Eclipse IDE window with two tabs: 'a2.diff' and 'a.patch'. The 'a2.diff' tab is active, displaying a diff file with syntax highlighting. The content includes a commit message, a bug report, and a code change. The code change is a Java class named 'BuildTests' with a method 'println' that prints a debug message. The diff shows the addition of the code.

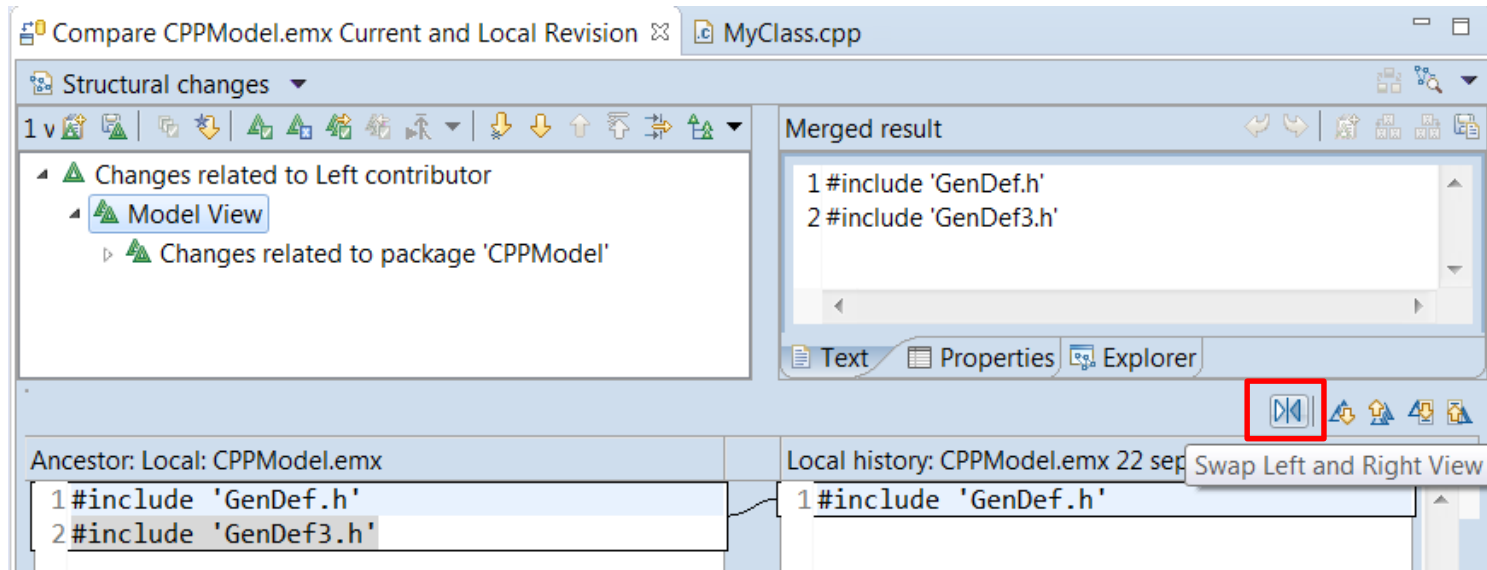
```
1 commit bb6f1c5d2d730606137a597d9516f23909187998
2 Author:
3 Date: Wed Nov 2 18:22:28 2016 +0530
4
5 Bug 499147 - testDirtyLogSize test failed for I201608
6
7 Change-Id: I7360145d5b8946df59b6fde076ec564c6a8ccfb5
8 Signed-off-by:
9
10 diff --git a/bundles/org.eclipse.releng.tests/src/org/ecl
11 index de8a950..651eeb 100644
12 --- a/bundles/org.eclipse.releng.tests/src/org/eclipse/re
13 +++ b/bundles/org.eclipse.releng.tests/src/org/eclipse/re
14 @@ -637,7 +637,7 @@ public class BuildTests {
15      System.out.println("DEBUG: MAX_ALLOWED_BYTES: "
16      String buildId = System.getProperty("buildId");
17      assertNotNull("buildId property must be specifie
```

- Easier to associate files with special extensions to an appropriate editor
 - Select the file and do *Open with – Other...*
 - Specify an internal Eclipse editor, or an external program
 - For example, set .tc.js files to be opened with your favorite text editor



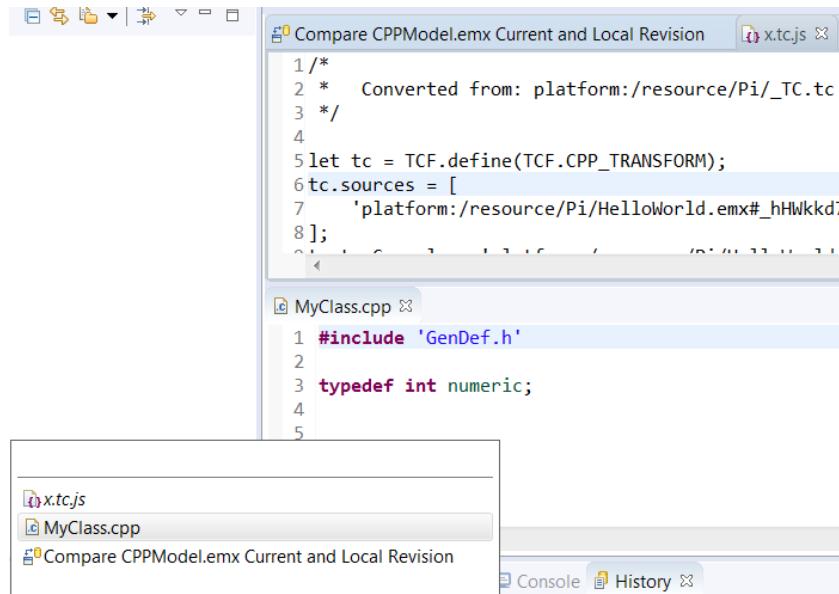
Eclipse 4.7 (Oxygen)

- Swapping left and right side when doing textual compare/merge
 - Useful if selecting files so they were compared in the "wrong" order
 - Available for all text files, and also in the new text merge editor



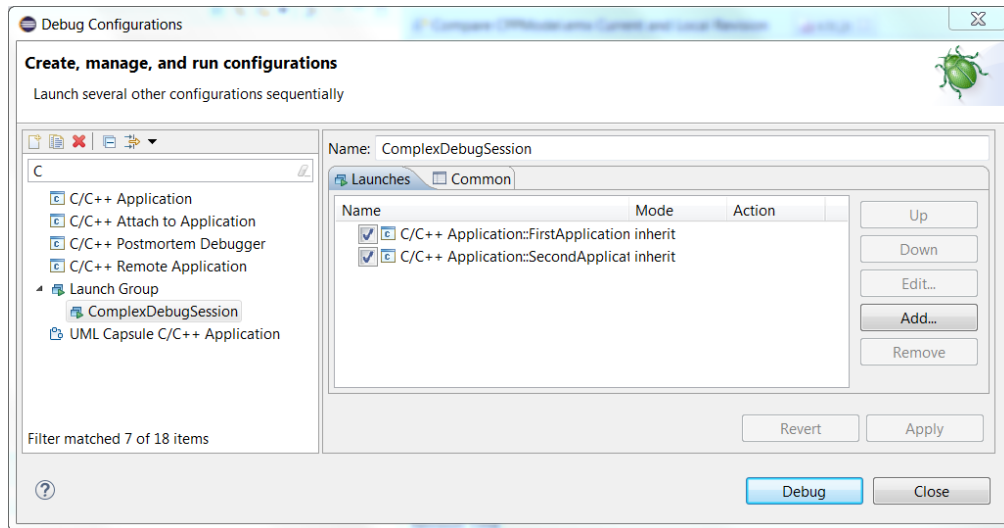
Eclipse 4.7 (Oxygen)

- It's now possible to switch between open editors using Ctrl+E even when the editor area has been split to show more than one editor at the same time
 - Especially useful for users with big screens who often show more than one editor at the same time
 - Tooltip with open editors now appear in the middle of the screen to make it easier to notice
 - Navigation to subsequent editors can now be done using Ctrl+E instead of having to use arrow keys or mouse



Eclipse 4.7 (Oxygen)

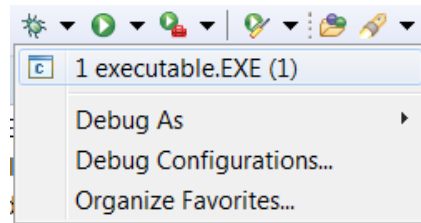
- Support for launch groups
 - A new type of launch configuration that can contain other launch configurations
 - Makes it easier to debug applications that require multiple executables to be launched
 - Possible to customize the rules for when and how the contained launch configurations should be launched
 - N.B. CDT previously provided a similar launch group feature, and it is now deprecated



Eclipse 4.7 (Oxygen)

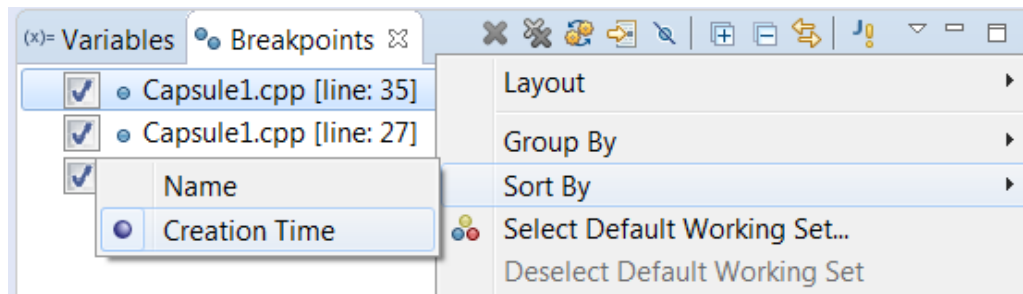
■ Terminate and Relaunch

- The default Eclipse behavior is to always launch a new debug session, when launching from the history in the Debug and Run button menus.
- Now you can press Shift when launching from the history to automatically terminate the previous session before launching a new session
- A new preference *Run/Debug – Launching – Terminate and Relaunch while launching* can be set if you always prefer this behavior (without pressing Shift)



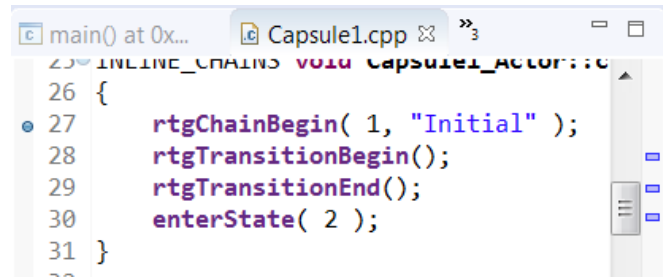
■ Sorting breakpoints by creation date

- Useful when there are many breakpoints and you want to see the newest one on top

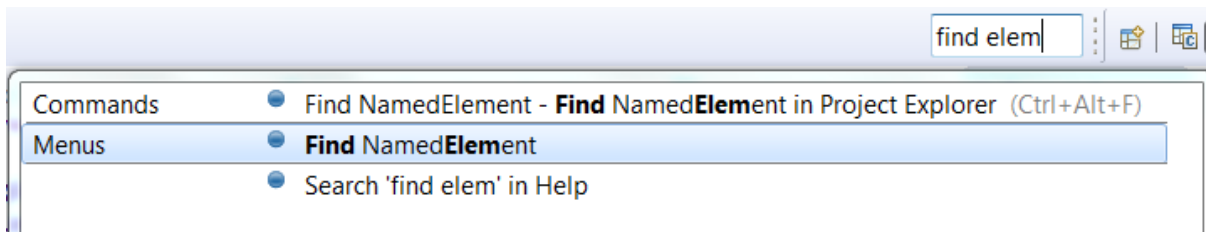


Eclipse 4.7 (Oxygen)

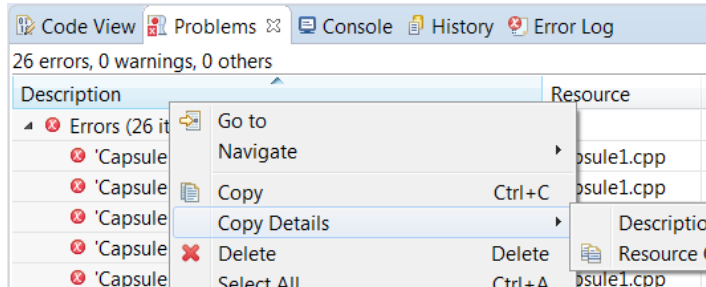
- Breakpoints now visible in the overview ruler
 - Helps finding the breakpoints in large files
- Smarter Quick Access search
 - Now supports space separated strings
 - Useful if you don't remember the command name exactly
 - Wildcards (* and ?) can also be used
 - Also possible now to use Quick Access for searching in the Help documentation
 - Other minor improvements (e.g. showing command icons) also make this feature more user-friendly

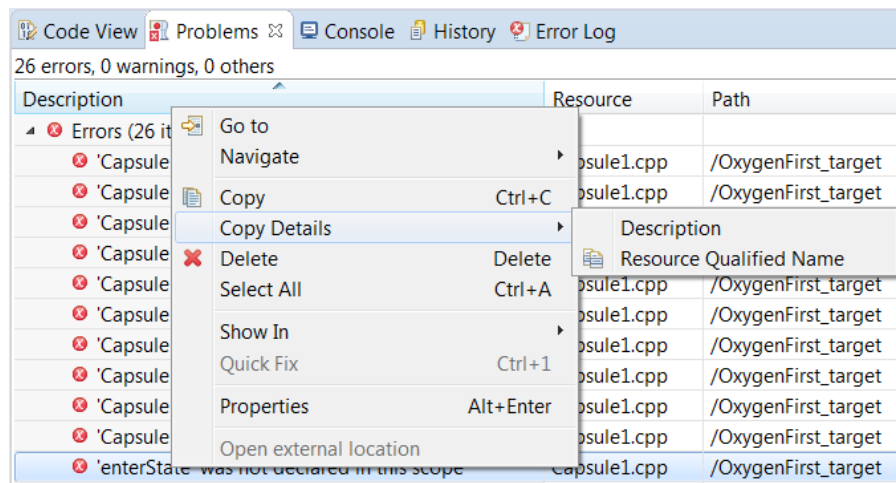


```
main() at 0x... Capsule1.cpp »3
25 INLINE_CHAINS void Capsule1_Actor::C
26 {
27     rtgChainBegin( 1, "Initial" );
28     rtgTransitionBegin();
29     rtgTransitionEnd();
30     enterState( 2 );
31 }
```



Eclipse 4.7 (Oxygen)

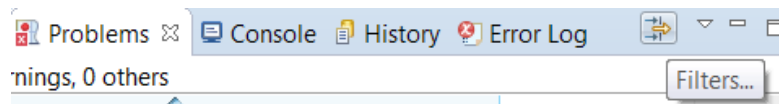
- Possible to hide the status bar
 - A new command *Window – Appearance – Hide (Show) Status Bar* can be used
 - (Linux only) Left/Right arrow keys for collapsing/expanding current tree node
 - Same behavior as on Windows
 - Works on GTK+ 3.6 and later
 - Easier to copy parts of an entry in the Problems or Tasks view
 - Copy Details in the context menu can be used for copying either only the description text or the resource name
- 
- The screenshot shows the Qt Creator application window. The 'Problems' tab is active, displaying a list of errors. A context menu is open over the first error entry, which has the description "'Capsule ...'" and the resource name 'capsule1.cpp'. The menu options include 'Go to Navigate', 'Copy' (with a keyboard shortcut 'Ctrl+C'), 'Copy Details', 'Delete', and 'Select All' (with a keyboard shortcut 'Ctrl+A'). The 'Copy Details' option is currently selected, and a sub-menu is visible showing 'Description' and 'Resource' as options for what to copy.



Eclipse 4.7 (Oxygen)

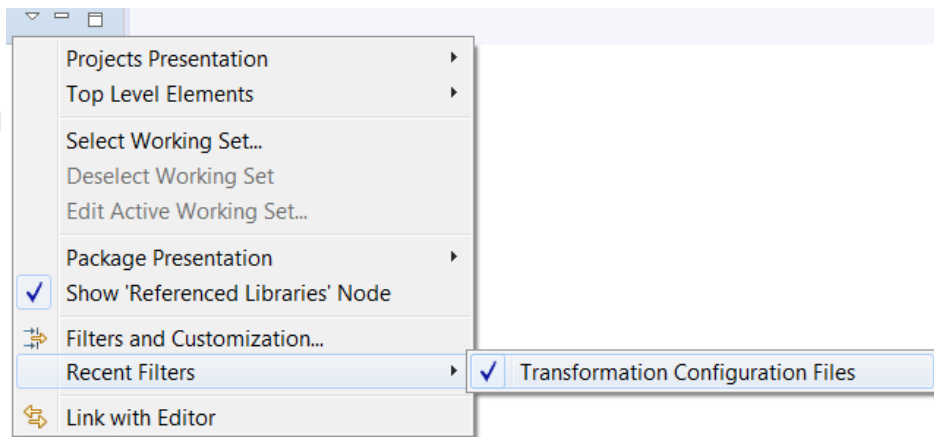
- Easier to filter the Problems and Tasks views

- Filters can be applied using a toolbar button
- The Filters dialog itself has also been simplified



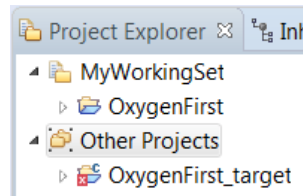
- Easier to filter the Project Explorer

- A new context submenu for setting/unsetting recent filters
- Note: The command "Customize view" is now called "Filters and Customization"



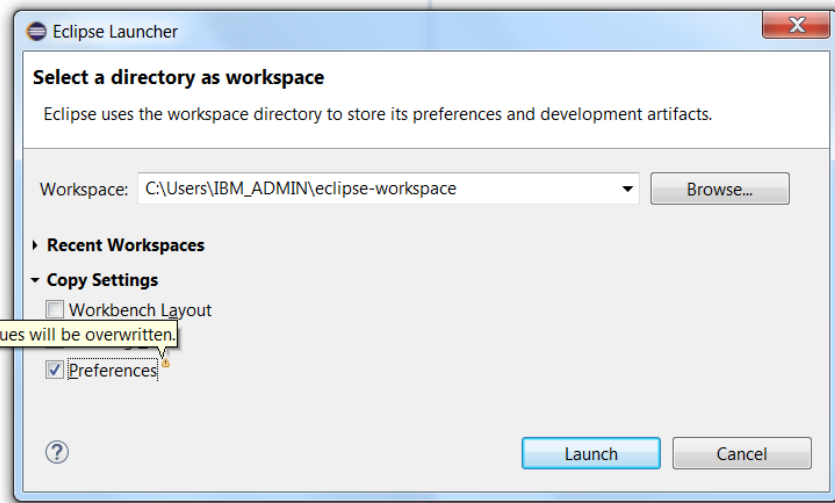
- Showing projects not in the currently active working sets

- An "Other Projects" group can be used for showing such projects when working sets are the top level elements



Eclipse 4.7 (Oxygen)

- Copying workspace preferences
 - Can now be done when switching to a new or existing workspace
- Always run in background
 - The preference *General – Always run in background* is now enabled by default. Disable it if you prefer the old behavior of seeing a progress dialog for long-running operations.
- More external web browsers supported on Linux
 - Now support for Firefox, Chrome, Chromium, Epiphany/Gnome Web, Konqueror
- For more information about Eclipse improvements see
 - News in Eclipse 4.7 (Oxygen) <http://www.eclipse.org/eclipse/news/4.7/platform.php>



THANK YOU!