# News in RSA-RTE 10.2

updated for sprint 2017.43

Mattias Mohlin, November 2017



#### Overview

- Now based on Eclipse Oxygen.1 (4.7.1)
- RSARTE 10.2 is currently an experimental release!
  - Everything that is present in RSARTE 10.1 is also present in 10.2
  - See the What's New presentation for RSARTE 10.1
     to learn about the new features that are also present in version 10.1



Version: 10.2.0.v20170918\_1055

Release: 2017.40

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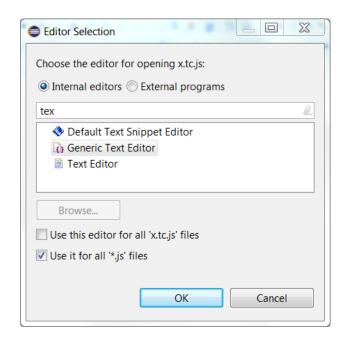




- New text editor ("Generic Text Editor")
  - Has some general improvements, such as support for syntax highlighting of .patch and .diff files

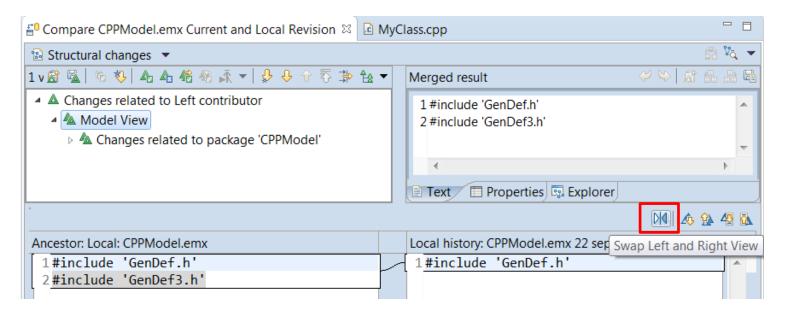
```
a2.diff
           n a.patch ≅
  1 commit bb6f1c5d2d730606137a597d9516f23909187998
  2 Author:
  3 Date: Wed Nov 2 18:22:28 2016 +0530
       Bug 499147 - testDirtyLogSize test failed for I201608
       Change-Id: I7360145d5b8946df59b6fde076ec564c6a8ccfb5
       Signed-off-by:
 10 diff --git a/bundles/org.eclipse.releng.tests/src/org/ecl:
 11 index de8a950..651eefb 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 {
            System.out.println("DEBUG: MAX ALLOWED BYTES: "
            String buildId = System.getProperty("buildId");
 16
            assertNotNull("buildId property must be specified
```

- 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





- 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 when doing compare/merge on a code snippet within a model

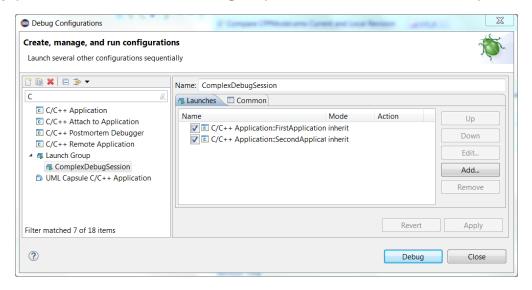


- It's now possible to switch between open editors using Ctrl+E even when the editor area has been split to show more than one editor at the same time
  - Especially useful for users with big screens who often show more than one editor at the same time
  - Tooltip with open editors now appear in the 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

```
Compare CPPModel.emx Current and Local Revision
                                                          x.tc.js 🛭
                           Converted from: platform:/resource/Pi/ TC.tc
                      5 let tc = TCF.define(TCF.CPP TRANSFORM);
                      6tc.sources = [
                           'platform:/resource/Pi/HelloWorld.emx# hHWkkd7
                    1 #include 'GenDef.h'
                       typedef int numeric;
x.tc.js
MyClass.cpp
🛮 Console 🗐 History 🛭
```



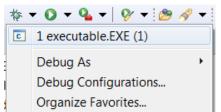
- Support for launch groups
  - A new type of launch configuration that can contain other launch configurations
  - Makes it easier to debug applications that require multiple executables to be launched
  - Possible to customize the rules for when and how the contained launch configurations should be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



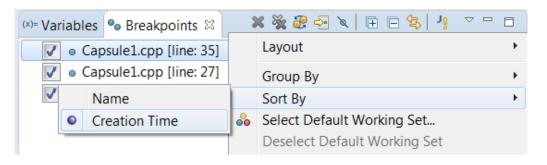


#### Terminate and Relaunch

- 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 prefers 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





- 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

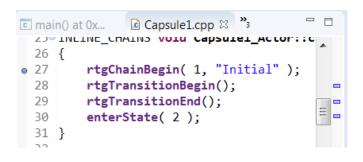
```
Commands

Find NamedElement - Find NamedElement in Project Explorer (Ctrl+Alt+F)

Menus

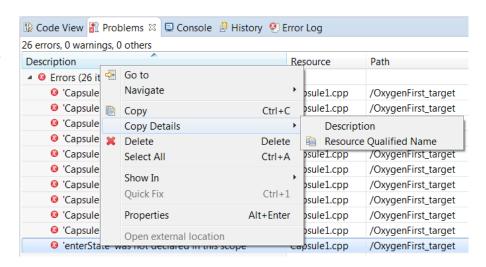
Find NamedElement

Search 'find elem' in Help
```



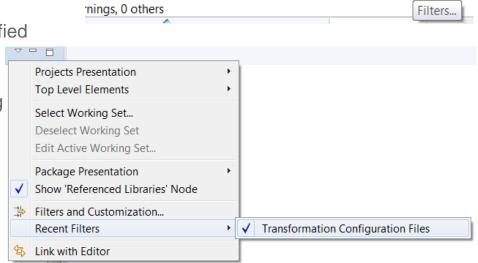


- Possible to hide the status bar
  - A new command Window Appearance Hide (Show) Status Bar can be used
- (Linux only) Left/Right arrow keys for collapsing/expanding current tree node
  - Same behavior as on Windows
  - Works on GTK+ 3.6 and later
- Easier to copy parts of an entry in the Problems or Tasks view
  - Copy Details in the context menu can be used for copying either only the description text or the resource name



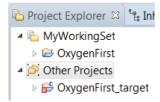


- Easier to filter the Problems and Tasks views
  - Filters can be applied using a toolbar button
  - The Filters dialog itself has also been simplified
- Easier to filter the Project Explorer
  - A new context submenu for setting/unsetting recent filters
  - Note: The command "Customize view" is now called "Filters and Customization"



🔐 Problems 🖾 📃 Console 🗐 History 🥺 Error Log

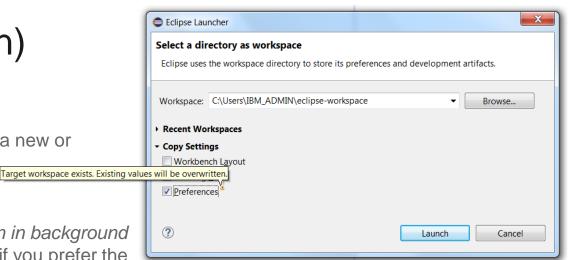
- Showing projects not in the currently active working sets
  - An "Other Projects" group can be used for showing such projects when working sets are the top level elements



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) <a href="http://www.eclipse.org/eclipse/news/4.7/platform.php">http://www.eclipse.org/eclipse/news/4.7/platform.php</a>





#### CDT 9.3 (included as part of Eclipse Oxygen.1)

#### Open Declaration

 This command has been improved for several navigation scenarios. For example, it's now possible to navigate from a class template to its forward declaration.

#### Content Assist

- Recognition of the pattern **&ClassName::** to include also non-static member functions as proposals
- Now supports the case when include files do not have traditional file extensions (.h or .hpp)
- More information is now printed in the hint tooltip for function parameters (full function signature)

#### Comment Folding

Documentation comments (///) are now better supported w.r.t folding in the CDT editor

#### Performance Improvements

- Build Console is now up to 25 times faster when performing large number of printouts to the console
- UI responsiveness has improved by reducing the number of threads used
- Now the build time when using CDT is comparable to when building from command-line



#### **CDT 9.3**

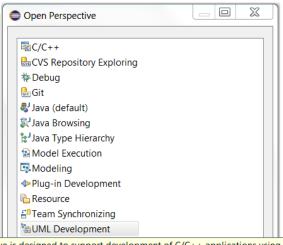
- Source Not Found Editor
  - A new preference in C/C++ Debug allows to control when this editor appears
- Quick Fixes
  - More Quick Fixes are now available for many build errors generated by gcc

For more information about news in CDT 9.3 see <a href="https://wiki.eclipse.org/CDT/User/NewIn93">https://wiki.eclipse.org/CDT/User/NewIn93</a>



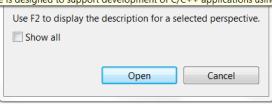
#### Perspective Improvements

 Eclipse Oxygen now supports showing perspective descriptions in the Open Perspective dialog



- The perspective description is shown by pressing F2
- Helps in particular new RSARTE users in learning the tool
- All perspectives provided by RSARTE now have a description
- Note: The perspective "Classic Modeling" has been removed as it was considered confusing to have two different perspectives for the purpose of modeling. The "Classic Modeling" perspective was intended for users used to RSARTE versions earlier than 8.0 and didn't provide any real value for users used to more modern versions of RSARTE. If needed, it is always possible to create a customized version of the Modeling perspective.

This perspective is designed to support development of C/C++ applications using UML. It is the default and recommended perspective for RSARTE.



# THANK YOU!