


What's New in HCL RTist 11.1

updated for release 2020.50

Overview

- ▶ RTist 11.1 is based on Eclipse 2020.06 (4.16)
- ▶ HCL RTist is 100% compatible with IBM RSARTE. All features in IBM RSARTE are also present in HCL RTist. However, HCL RTist contains a few features that do not exist in IBM RSARTE.
 - Those features are marked in this presentation by  **RTist** ONLY
- ▶ The 11.1 version is currently experimental

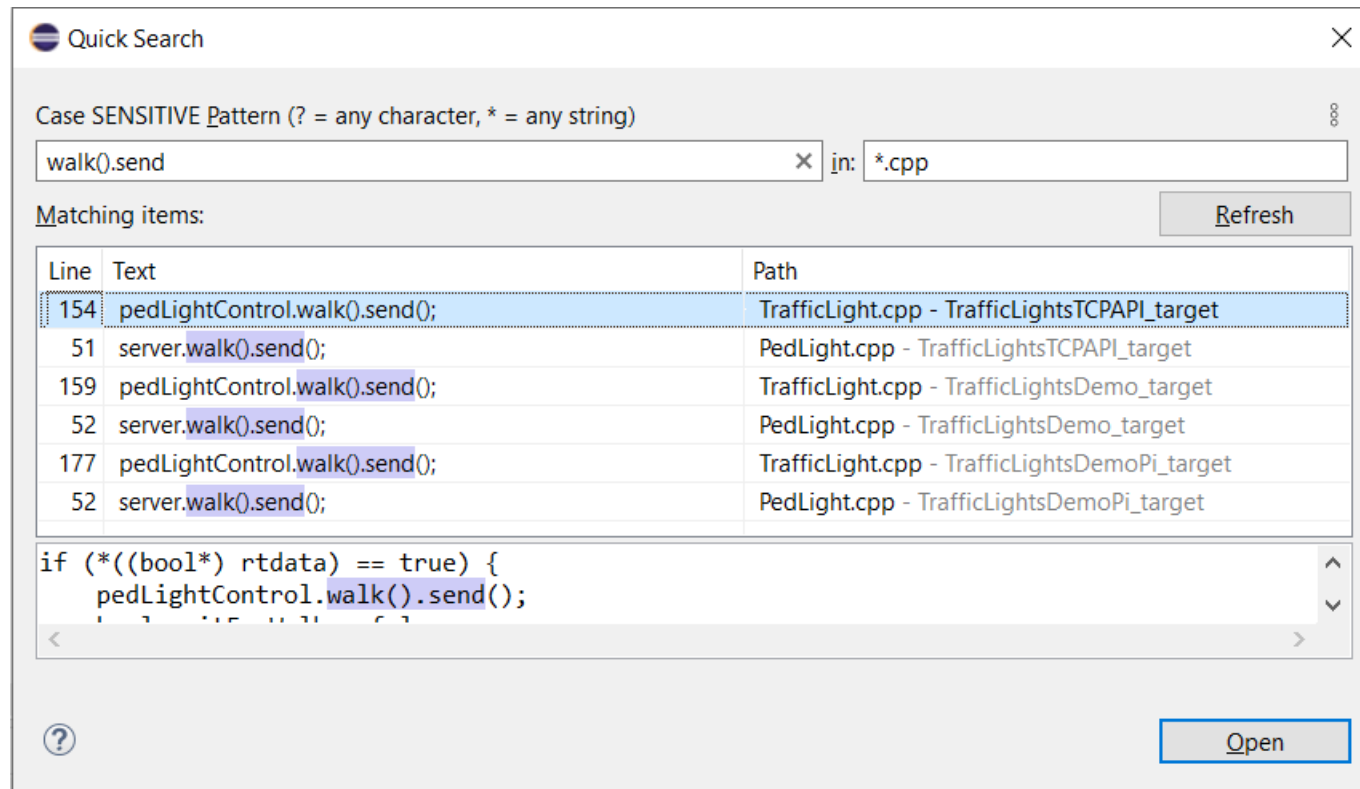


Eclipse 4.16 (2020.06)

- ▶ Compared to RTist 11.0, RTist 11.1 includes new features from 4 quarterly Eclipse releases:
 - 2019.09 (<https://www.eclipse.org/eclipse/news/4.13/platform.php>)
 - 2019.12 (<https://www.eclipse.org/eclipse/news/4.14/platform.php>)
 - 2020.03 (<https://www.eclipse.org/eclipse/news/4.15/platform.php>)
 - 2020.06 (<https://www.eclipse.org/eclipse/news/4.16/platform.php>)
- ▶ For full information about all improvements and changes in these Eclipse releases see the links above
 - Some highlights are listed in the next few slides...

Eclipse 4.16 (2020.06)

- ▶ A new Quick Search dialog allows you to search the files of your workspace faster (“as-you-type”)
 - For a similar search experience in model files, use the Find Named Element command instead



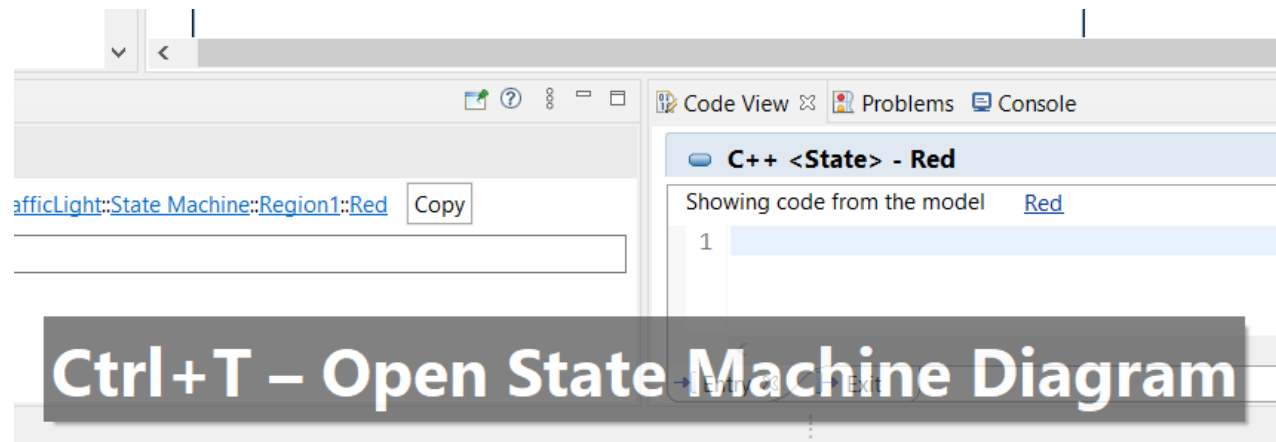
Eclipse 4.16 (2020.06)

- ▶ By default at most 99 editors can now be open at the same time
 - Helps keeping the performance good when working with Eclipse for a long time
 - This can be controlled by the preference **General – Editors – Close editors automatically**
- ▶ Showing key bindings when performing commands
 - New preferences in **General – Keys**
 - This is a good way to learn about key bindings for the commands that are used, and can also help in presentations

Show key binding when command is invoked

Through keyboard

Through mouse click

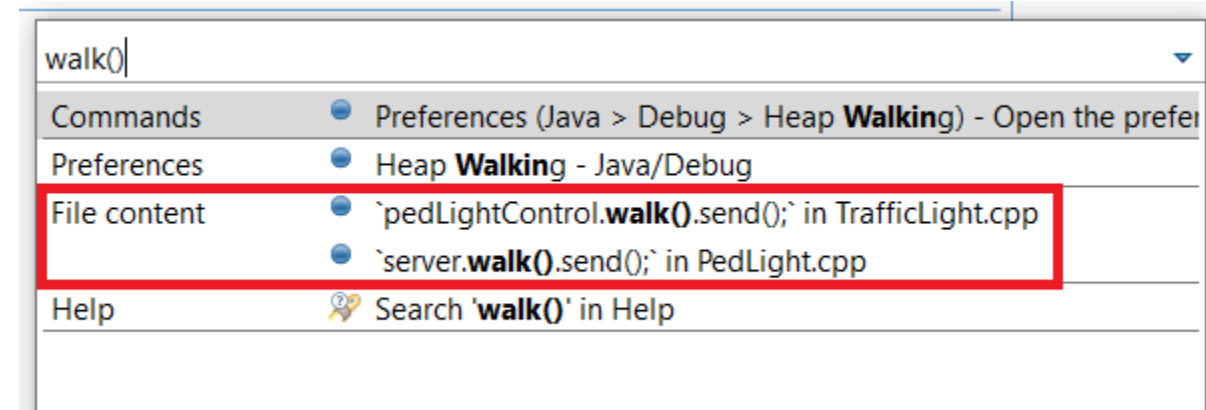
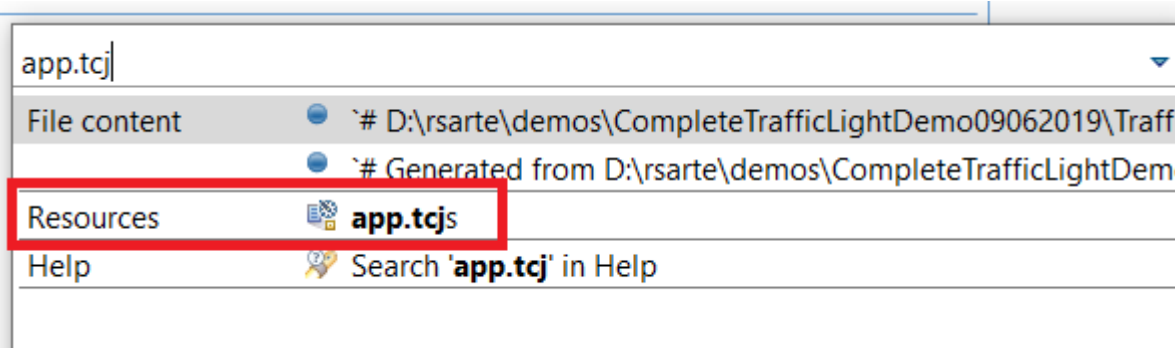
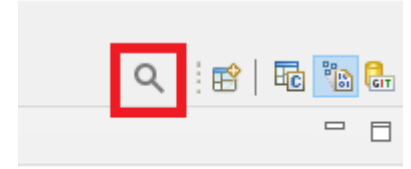


Ctrl+T – Open State Machine Diagram

Eclipse 4.16 (2020.06)

▶ Quick Access field replaced with toolbar button

- Takes less space in the toolbar, and instead uses a normal dialog for typing and showing the results
- Same key binding as before (Ctrl + 3) but the command is now called “Find Actions”
- The results now also include matching files in the workspace, and text matches in files (requires that Quick Search has been used at least once)



Eclipse 4.16 (2020.06)

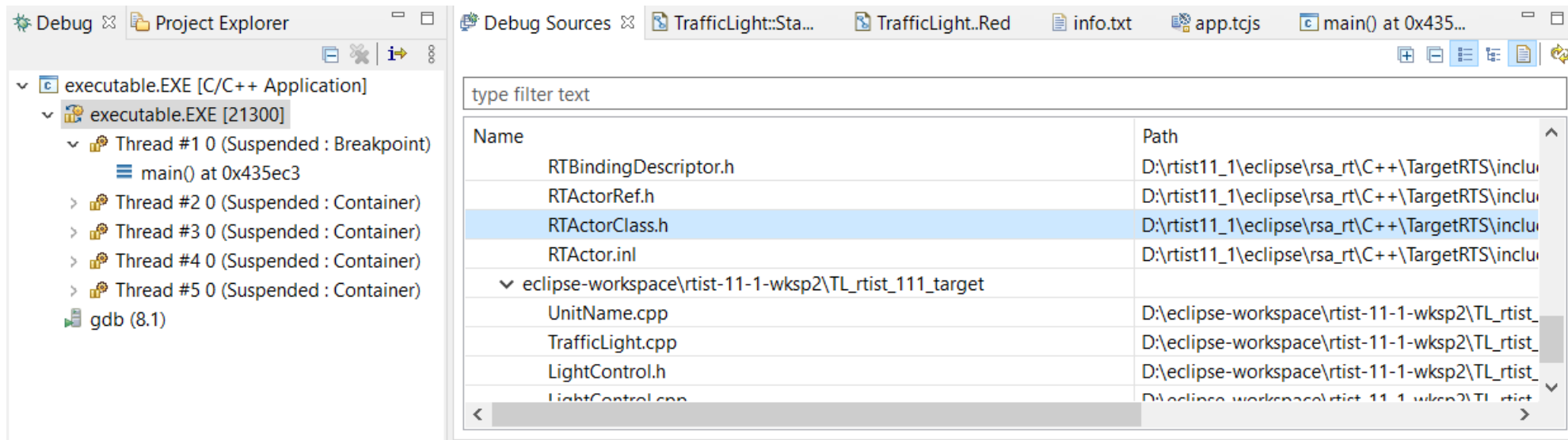
- ▶ Show code problems inline
 - Makes errors/warnings more visible and lets you apply quick fixes without having to go to the Problems view
 - Enable this feature in preferences at **General – Editors – Text Editors – Show code minings for problem annotations**
- ▶ There were several improvements in SWT and GTK
 - The minimal supported GTK version is now 3.20

```
34 {  
35 //{{{USR platform:/resource/TL_rtist_111/Tr  
36 log.log("Red -> Green");  
   ⓧ 'cout' is not a member of 'std'  
37 std::cout << "test";  
38 //}}}USR  
39 }  
40
```

CDT 9.11 (included as part of Eclipse 2020.06)

▶ New Debug Sources view

- Shows source files the C++ debugger knows about when debugging an application
- Useful in particular when the application contains source files that are not present in the Eclipse workspace
- Source files can be found by searching (filtering) and opened by double-click



The screenshot shows the Eclipse IDE interface during a debug session. The Project Explorer on the left shows the application structure, including the executable and several threads. The Debug Sources view on the right displays a table of source files found by the debugger. The table has two columns: Name and Path. The file RTActorClass.h is highlighted in blue.

Name	Path
RTBindingDescriptor.h	D:\rtist11_1\eclipse\rta_rt\C++\TargetRTS\inclu
RTActorRef.h	D:\rtist11_1\eclipse\rta_rt\C++\TargetRTS\inclu
RTActorClass.h	D:\rtist11_1\eclipse\rta_rt\C++\TargetRTS\inclu
RTActor.inl	D:\rtist11_1\eclipse\rta_rt\C++\TargetRTS\inclu
▼ eclipse-workspace\rtist-11-1-wksp2\TL_rtist_111_target	
UnitName.cpp	D:\eclipse-workspace\rtist-11-1-wksp2\TL_rtist_
TrafficLight.cpp	D:\eclipse-workspace\rtist-11-1-wksp2\TL_rtist_
LightControl.h	D:\eclipse-workspace\rtist-11-1-wksp2\TL_rtist_
LightControl.cpp	D:\eclipse-workspace\rtist-11-1-wksp2\TL_rtist_

CDT 9.11 (included as part of Eclipse 2020.06)

- ▶ CODAN improvements
 - Several additional checks implemented
- ▶ For more information about CDT improvements see
 - <https://wiki.eclipse.org/CDT/User/NewIn99>
 - <https://wiki.eclipse.org/CDT/User/NewIn910>
 - <https://wiki.eclipse.org/CDT/User/NewIn911>

Newer EGit Version in the EGit Integration

- ▶ The EGit integration in RTist has upgraded EGit from 5.4 to 5.8
 - This is the recommended and latest version for Eclipse 2020.06
- ▶ This upgrade provides several new features, performance improvements and bug fixes
 - For detailed information about the changes see
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/5.5
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/5.6
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/5.7
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/5.8

HCL

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