

## What's New in HCL RTist 11.1

updated for release 2021.16



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## 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



HCL RTist Version: 11.1.0.v20210422\_1057 Release: 2021.16

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Visit https://RTist.hcldoc.com/help/topic/com.ibm.xtools.rsarte.webdoc/users-guide/overview.html





- Compared to RTist 11.0, RTist 11.1 includes new features from 4 quarterly Eclipse releases:
  - 2019.09 (<u>https://www.eclipse.org/eclipse/news/4.13/platform.php</u>)
  - 2019.12 (<u>https://www.eclipse.org/eclipse/news/4.14/platform.php</u>)
  - 2020.03 (<u>https://www.eclipse.org/eclipse/news/4.15/platform.php</u>)
  - 2020.06 (<u>https://www.eclipse.org/eclipse/news/4.16/platform.php</u>)
- 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...



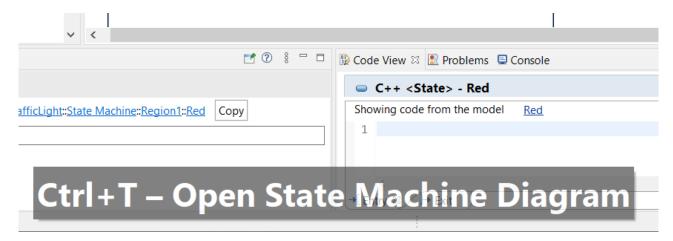
- A new Quick Search dialog allows you to search the files of your workspace faster ("as-you-type")
  - For a similar search experience in model files, use the Find Named Element command instead

	).send	× in: *.cpp
atchi	ng items:	<u>R</u> efresh
ine	Text	Path
154	pedLightControl.walk().send();	TrafficLight.cpp - TrafficLightsTCPAPI_target
51	server. <mark>walk().send(</mark> );	PedLight.cpp - TrafficLightsTCPAPI_target
159	pedLightControl.walk().send();	TrafficLight.cpp - TrafficLightsDemo_target
52	server.walk().send();	PedLight.cpp - TrafficLightsDemo_target
177	pedLightControl.walk().send();	TrafficLight.cpp - TrafficLightsDemoPi_target
52	server.walk().send();	PedLight.cpp - TrafficLightsDemoPi_target
	<pre>f((bool*) rtdata) == true) { pedLightControl.walk().send();</pre>	

- 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

Show key binding when command is invoked
Through keyboard
Through mouse click

This is a good way to learn about key bindings for the commands that are used, and can also help in presentations





## 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 an 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)

ann teil				
app.tcj		*		
File content	`# D:\rsarte	`# D:\rsarte\demos\CompleteTrafficLightDemo09062019\Traff		
	`# Generate	d from D:\rsarte\demos\CompleteTrafficLightDem		
Resources	🖏 app.tcjs			
Help	🚿 Search ' <b>app</b>	.tcj' in Help		

walk()	
Commands Preferences (Java > Debug > Heap Walking) - Op	
Preferences   Heap Walking - Java/Debug	
File content	`pedLightControl.walk().send();` in TrafficLight.cpp
	`server.walk().send();` in PedLight.cpp
Help	🖇 Search ' <b>walk()</b> ' in Help





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- 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

- 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

🎋 Debug 🛛 🎦 Project Explorer 👘 🗖	Debug Sources & TrafficLight::Sta	🖹 info.txt 🛛 📲 app.tcjs 💽 main() at 0x435 👘 🗖
🖻 🙀 ita 🖇		E E E 🗎 🕸
<ul> <li>executable.EXE [C/C++ Application]</li> <li> <sup>®</sup> executable.EXE [21300]     </li> </ul>	type filter text	
✓	Name	Path ^
main() at 0x435ec3	RTBindingDescriptor.h	D:\rtist11_1\eclipse\rsa_rt\C++\TargetRTS\inclu
> 🔗 Thread #2 0 (Suspended : Container)	RTActorRef.h	D:\rtist11_1\eclipse\rsa_rt\C++\TargetRTS\inclu
> 🕐 Thread #3 0 (Suspended : Container)	RTActorClass.h	D:\rtist11_1\eclipse\rsa_rt\C++\TargetRTS\inclu
>   Thread #4 0 (Suspended : Container)	RTActor.inl	D:\rtist11_1\eclipse\rsa_rt\C++\TargetRTS\inclu
>   Thread #5 0 (Suspended : Container)	<ul> <li>eclipse-workspace\rtist-11-1-wksp2\TL_rtist_111_target</li> </ul>	
📕 gdb (8.1)	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.con	Diaclinea workensealitist 11.1 wken?\TL tist

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

## 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 <u>https://wiki.eclipse.org/EGit/New and Noteworthy/5.5</u> <u>https://wiki.eclipse.org/EGit/New and Noteworthy/5.6</u> <u>https://wiki.eclipse.org/EGit/New and Noteworthy/5.7</u> <u>https://wiki.eclipse.org/EGit/New and Noteworthy/5.8</u>

- A bash script is now available which helps automating the installation of RTist
  - Download it from the <u>Info Center</u>
  - Works on both Windows and Linux
- ▶ In particular useful for installing RTist 11.1 (due to the requirement of using Java 11 for the installation)

- Choose whether you want to then run RTist with either Java 8 or Java 11
- ▶ For documentation on how to configure and use the script see the <u>Info Center</u>.



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