

HCLSoftware

What's New in DevOps Model RealTime 12

updated for the DevOps 2023.12 release

Overview

- ▶ Model RealTime 12 is based on Eclipse 2023-06 (4.28)
- ▶ Two brandings of the product are available (HCL and IBM). There is no differences in functionality between them.
 - Only difference is in the licensing mechanism and branding (e.g. documentation)



DevOps Model RealTime

Version: 12.0.0 (part of DevOps 2023.12)

Build: 12.0.0.v20231205_1706

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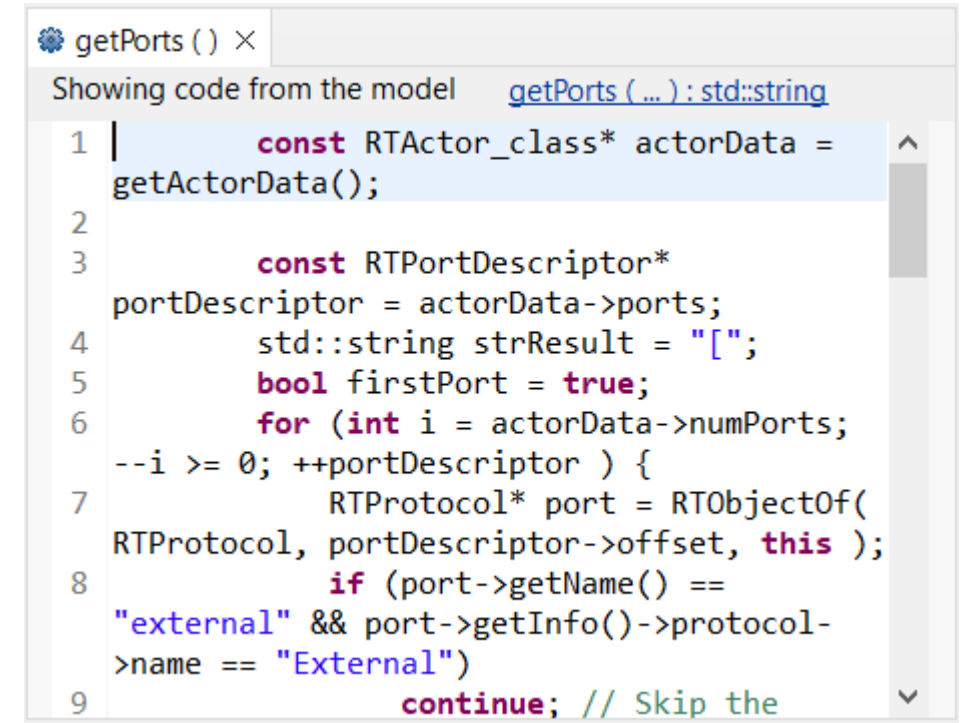
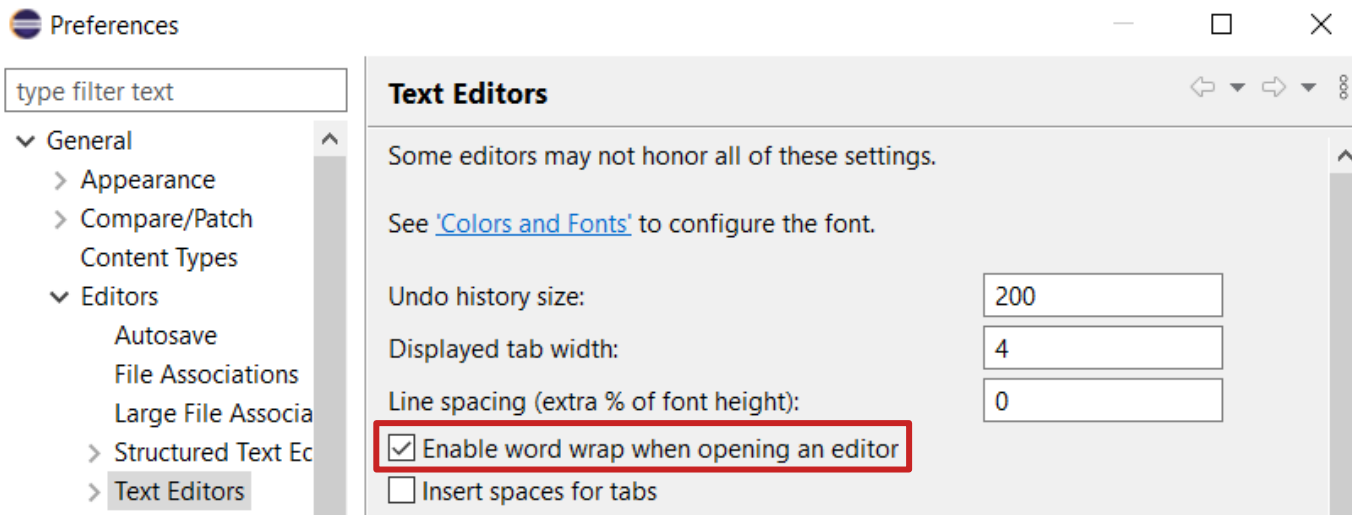
Visit <https://model-realttime.hcldoc.com/help/topic/com.ibm.xttools.rsarte.webdoc/users-guide/overview.html>

Eclipse 4.28 (2023.06)

- ▶ Compared to RSARTE/RTist 11.3, Model RealTime 12 includes new features and bug fixes from 4 quarterly Eclipse releases:
 - 2022.09 (<https://www.eclipse.org/eclipse/news/4.25/platform.php>)
 - 2022.12 (<https://www.eclipse.org/eclipse/news/4.26/platform.php>)
 - 2023.03 (<https://www.eclipse.org/eclipse/news/4.27/platform.php>)
 - 2023.06 (<https://www.eclipse.org/eclipse/news/4.28/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...

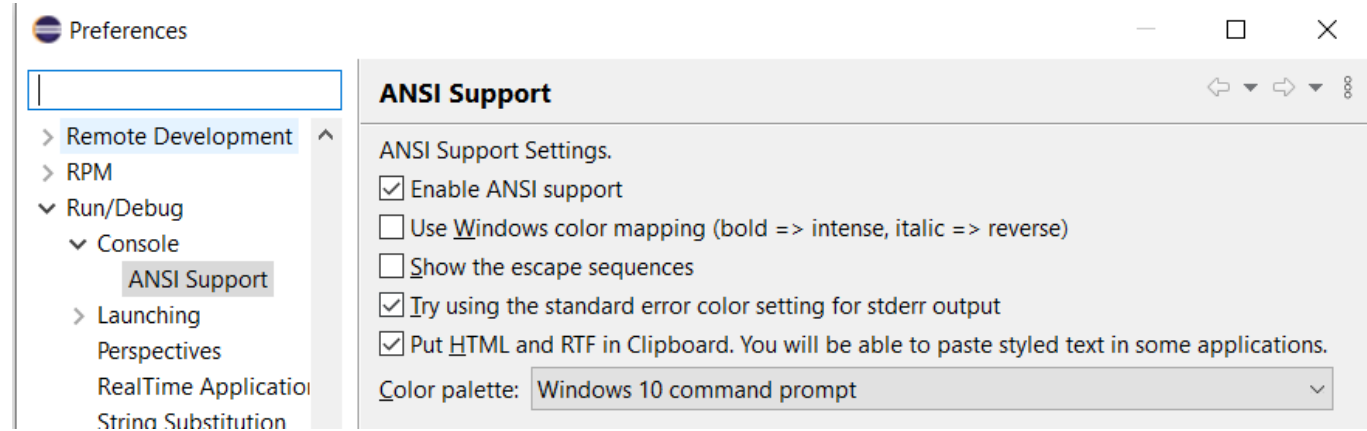
Eclipse 4.28 (2023.06)

- ▶ New preference to enable word wrap automatically
 - **General - Editors - Text Editors - Enable word wrap when opening an editor**
 - Applies to all text editors including the Code editor



Eclipse 4.28 (2023.06)

- ▶ The Eclipse console now supports ANSI escape codes for producing styled output
 - The SGR (Select Graphic Rendition) control sequences are supported
 - Rendering can be controlled by preferences in **Run/Debug - Console - ANSI Support**
 - You can use this to make application printouts easier to read



The screenshot shows the Eclipse IDE with a C++ code editor. The code is as follows:

```
29 static const char * CSI = "\33[";
30 std::cout << CSI << "4m" << "Underlined" << CSI << "0m" << std::endl;
31 std::cout << CSI << "21m" << "Double underlined" << CSI << "0m" << std::endl;
32 std::cout << CSI << "51m" << "Framed" << CSI << "0m" << std::endl;
33 std::cout << CSI << "1m" << "Bold" << CSI << "0m" << std::endl;
34 std::cout << CSI << "3m" << "Italic" << CSI << "0m" << std::endl;
35 std::cout << CSI << "42m" << "With background color" << CSI << "0m" << std::endl;
36 std::cout << CSI << "36m" << "With foreground color" << CSI << "0m" << std::endl;
37 std::cout << "Normal" << std::endl;
```

The screenshot shows the Eclipse IDE console output for the C++ application. The output is as follows:

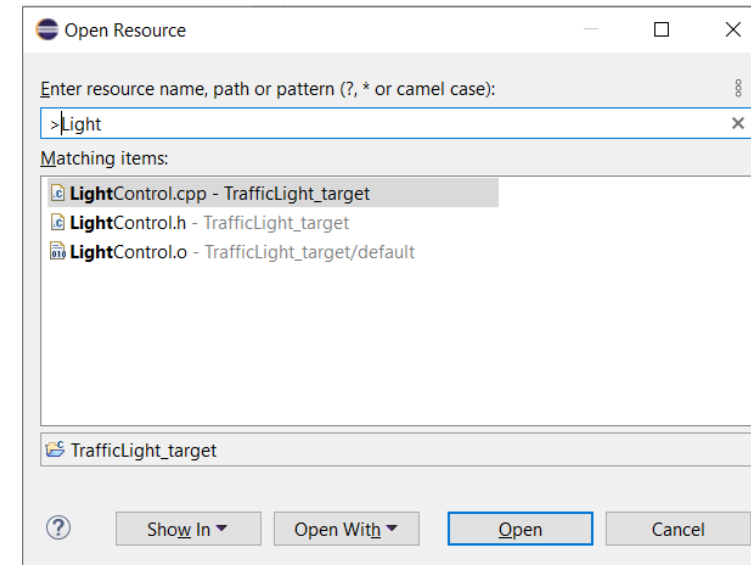
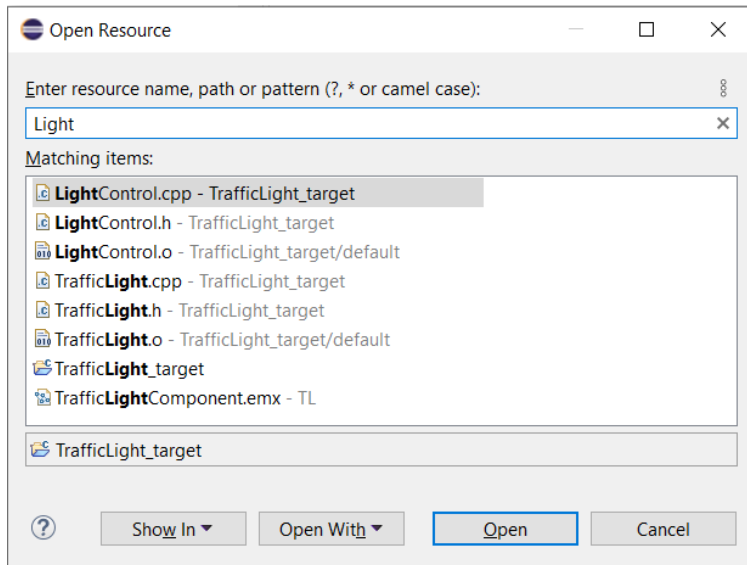
```
app.tcjs [C/C++ Application] [pid: 8]
RT C++ Target Run Time System - Release 7.1.12

Underlined
Double underlined
Framed
Bold
Italic
With background color
With foreground color
Normal
```

Eclipse 4.28 (2023.06)

► Changes in the Open Resource dialog

- Now the string you type in this dialog is searched in all parts of file names
- It's no longer necessary to prefix the search string with an asterisk (*) to accomplish this
- You can use a leading angle bracket (>) to enforce the old behavior (can be useful in case of too many matches)



CDT 11.2 (included as part of Eclipse 2023.06)

- ▶ Several improvements in the C++ parser have been implemented
 - Especially for supporting features of C++ 20 and C++ 23
- ▶ For more information about CDT improvements see
 - <https://github.com/eclipse-cdt/cdt/blob/main/NewAndNoteworthy/CDT-11.0.md>
 - <https://github.com/eclipse-cdt/cdt/blob/main/NewAndNoteworthy/CDT-11.1.md>
 - <https://github.com/eclipse-cdt/cdt/blob/main/NewAndNoteworthy/CDT-11.2.md>

Newer EGit Version in the EGit Integration

- ▶ The EGit integration in Model RealTime has upgraded EGit from 6.2 to 6.6
 - This is the recommended and latest version for Eclipse 2023.06
- ▶ This upgrade provides several new features and bug fixes
 - For detailed information about the changes see
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/6.3
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/6.4
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/6.5
 - https://wiki.eclipse.org/EGit/New_and_Noteworthy/6.6
- ▶ Note: There is a known issue in this version of EGit that merge and rebase operations could fail due to false conflicts if commits involve model files together with other types of files.
 - Because of this problem the EGit Integration is currently EXPERIMENTAL
 - If you run into the problem, abort the merge/rebase and redo it instead from the Git command-line

New Location for Info Centers

- ▶ As part of the product rename, the online documentation was moved to a new location
- ▶ There are two versions, depending on branding
 - HCL: <https://model-realtime.hcldoc.com/help/index.jsp>
 - IBM: <https://www.ibm.com/docs/dmrt/12.0>

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