



IBM DevOps Model RealTime

DevOps Model RealTime 12.0

Installation Instructions

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1 Introduction

This document guides you through the installation of DevOps Model RealTime. It covers three different installation scenarios:

- An interactively performed local installation in [section 2](#)
- A command line based installation suitable for scripting in [section 3](#)
- An installation based on the Eclipse Installer in [section 4](#)

To follow the instructions in this document and successfully install Model RealTime 12.0 you will need the following:

- An installation of **Eclipse IDE for C/C++ Developers** for Eclipse 2023-06. This can be downloaded from <https://www.eclipse.org/downloads/packages/release/2023-06/r>. If you use the Eclipse installer it will be downloaded automatically.
- Access to a repository containing the Model RealTime update site. This can either be a locally downloaded zip file or the address of a shared repository that has been preconfigured for your usage. You can download the Model RealTime update site zip file from [IBM Passport Advantage](#).
- A valid license. This can either be provided by means of a license server that contains Model RealTime licenses, or it can be a license key or file (permanent or trial) which you have obtained from IBM.
- An installation of a Java development kit (JDK) 64 bit.

NOTE: Model RealTime 12.0 requires a Java 17 JDK, both when installing and running it. We recommend to use the Open JDK or Oracle JDK (see the System Requirements for the exact recommended versions).

By default Eclipse 2023-06 distribution includes Open JDK version 17, but if you want to change it you could specify another JDK to use by editing the file `eclipse.ini` (found in the Eclipse installation folder). Specify the path to your JDK installation using the `-vm` argument. For example:

```
-vm  
D:/jdk-17.0.5/bin
```

2 Installing from the Eclipse workbench

Here we describe how to install Model RealTime as an update site on top of Eclipse 2023.06 (4.28) using the Eclipse graphical user interface. The sections that follow will cover how to install it from the command line or using the Eclipse installer.

NOTE: Some of the screen shots below were generated on the Windows platform for an older version of Model RealTime, and will therefore differ slightly when installing the latest version of Model RealTime 12.0 and when installing on Linux.

2.1 Install

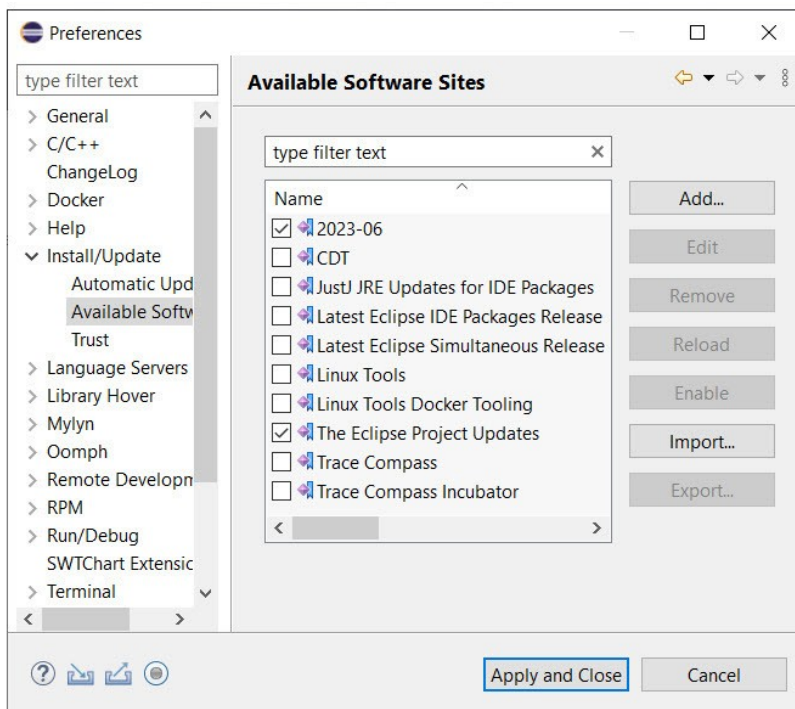
NOTE: You must have sufficient administration rights so that the OS will allow you to write the files to the installation directory of Eclipse for installing all features of Model RealTime.

If you don't have rights to write the files to the installation directory of Eclipse follow the instructions in the section on [5.1.Read-Only Installation](#).

NOTE: Make sure the Eclipse installation path does not contain any space characters. There are components in Model RealTime which do not work correctly if they are located in a path that contains a space.

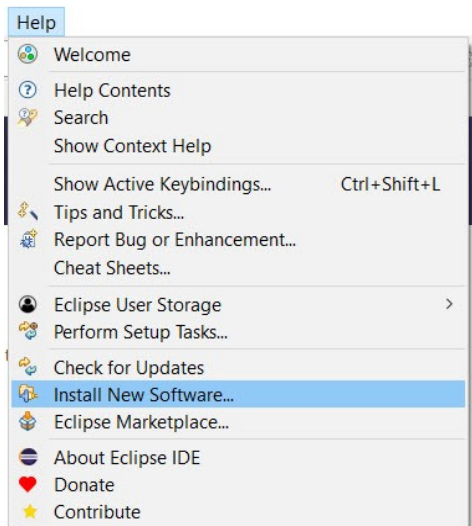
NOTE: Model RealTime can be installed on top of many Eclipse distributions, but we recommend to use "Eclipse IDE for C/C++ Developers". Installing it on other distributions may take a very long time since many dependent plugins need to be downloaded and installed.

1. Start Eclipse.
2. Open **Window - Preferences** and go to the **Install/Update - Available Software Sites** preference page. Make sure to uncheck all the software sites except the following: **2023-06, The Eclipse Project Updates**.

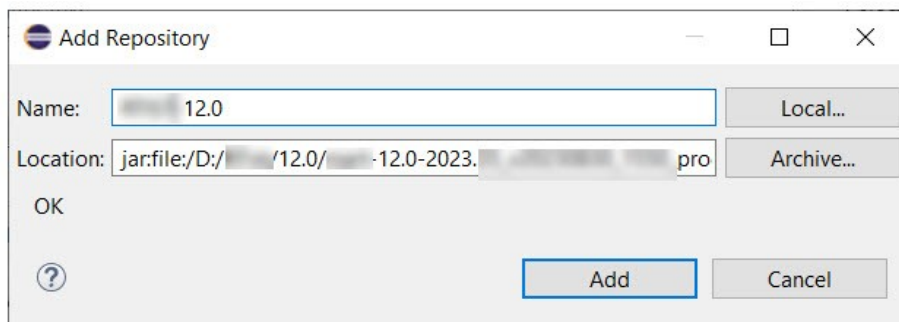


NOTE: It is important to uncheck items like **CDT, Latest Eclipse Simultaneous Release, Latest Eclipse IDE Packages Release** and others that can trigger Eclipse components upgrade, because such upgrades might cause errors during Model RealTime installation.

3. Choose the **Install New Software...** command from the **Help** menu.

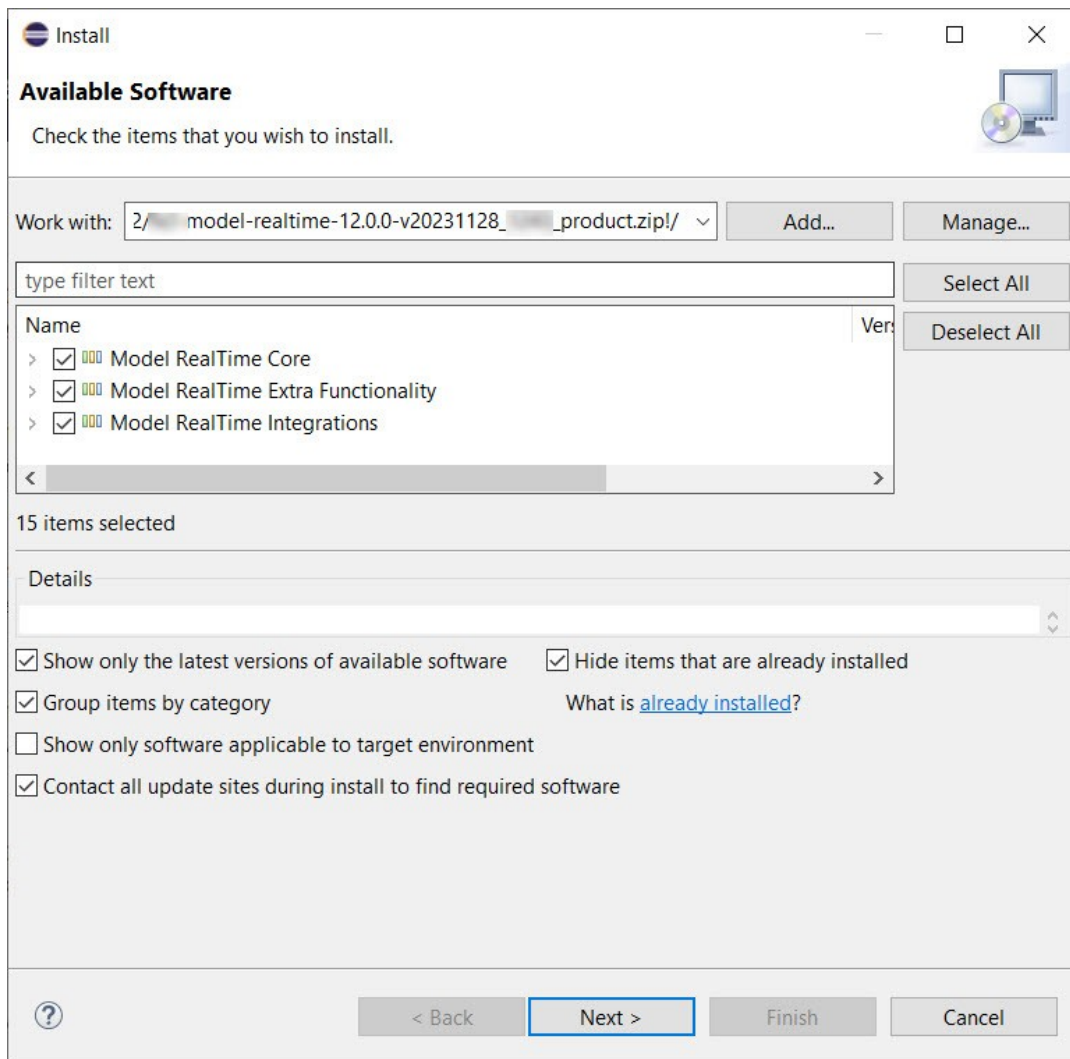


4. Press the **Add...** button and enter the location of the Model RealTime update site. If the update site is located on a server, you can directly type its URL in the **Location** field. If instead you have it as a ZIP file in the file system, press the **Archive...** button and select it. If the ZIP file already was unpacked to a folder, you should instead use the **Local...** button and select the folder. You can give a meaningful name to the repository in case you want to install from it again in the future. For example:



Note that the Model RealTime ZIP file that you should install from ends with "product". There is also another ZIP file in what you download that contains an offline version of the documentation.

5. Select the added repository in the **Work with** drop down list. A list of Model RealTime installation categories will be shown in the list below. It will look something like this (which categories that are available depends on the exact version of Model RealTime):



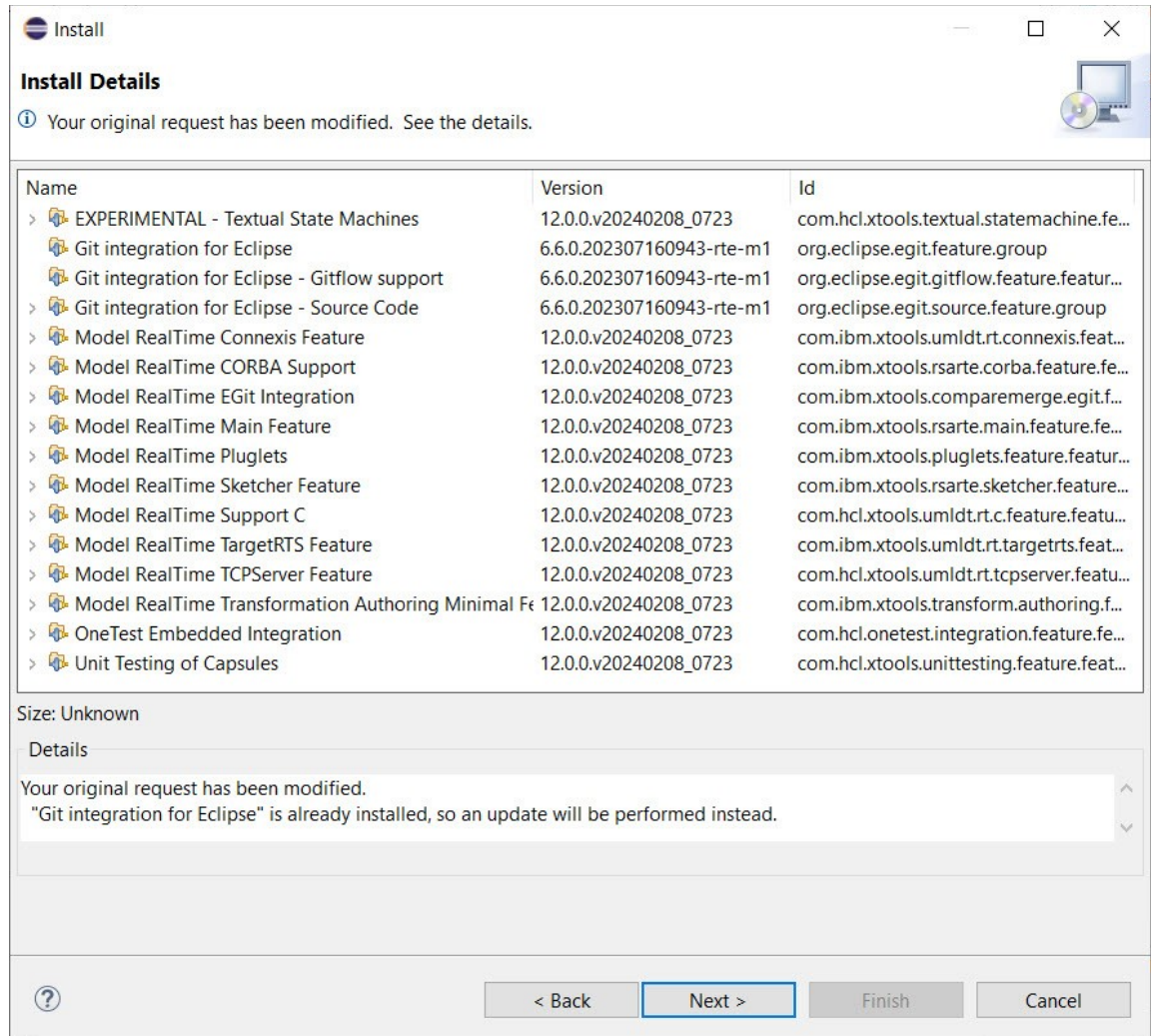
Under each installation category you can see the features it contains. You can select individual features to install, but often you will select only the top-level categories to install all features they contain.

The core Model RealTime functionality is contained in the **Model RealTime Core** category. All other categories contain optional additional functionality which you may or may not choose to install depending on your needs.

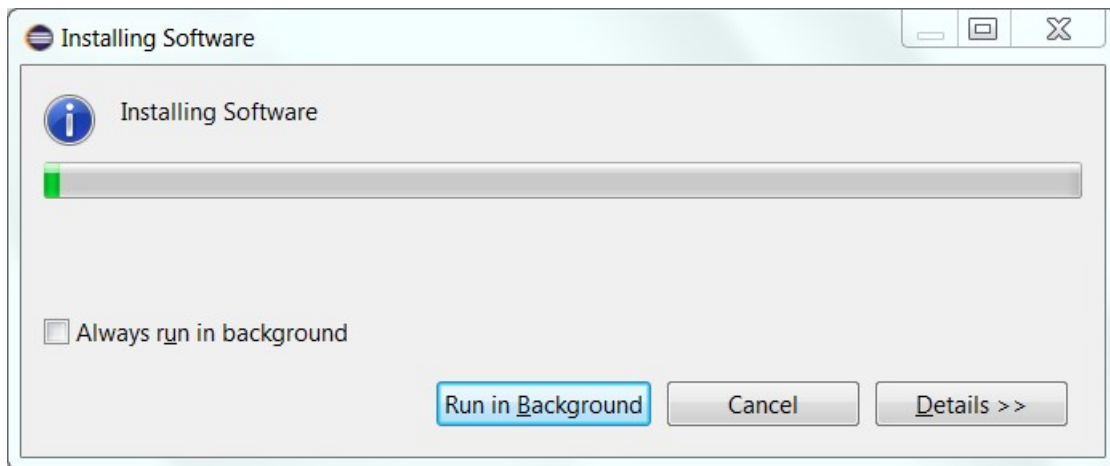
6. Select **Model RealTime Core** and any of the other optional categories you want to install. Press **Next**.
 - **NOTE:** If you get errors at this step double check that you run with sufficient privileges to be able to make updates to the system and files. (On Windows you may need to start Eclipse using the “Run As Administrator” command and on Linux with root rights). Also make sure that you use a Java 17 JVM.
 - **NOTE:** Depending on what Eclipse distribution you use, some Eclipse plugins which Model RealTime requires may be missing. Such plugins must be downloaded during the installation. To allow this to happen automatically you must select the checkbox **Contact all update sites during install to find required software**. As explained above, Eclipse 2023-06 (<https://www.eclipse.org/downloads/packages/release/2023-06/r>) must be in the list of available software sites (*Preferences – Install/Update – Available Software Sites*). If your machine does not have internet access, please follow the instructions given in the chapter [Installing without Internet Access](#).
 - **NOTE:** If you install the Model RealTime EGit Integration (under the category Model RealTime Integrations) you also must install EGit (Git Integration for Eclipse). Model RealTime has its

own version of EGit which is extended compared to the one that is part of Eclipse itself. At a minimum you must install the component called "Git integration for Eclipse".

- **NOTE:** If you choose to install the Model RealTime EGit Integration into an Eclipse installation that already contains a version of EGit that is different from the version included in the Model RealTime EGit Integration, you will be informed with a page similar to the one shown below that an update of EGit feature will be performed. This will automatically uninstall the existing EGit feature, before installing the Model RealTime EGit Integration.



7. If you already had an older version of Model RealTime 12.0 installed, you will get an **Install Details** page with a message that "Your original request has been modified". This is just information that Eclipse detected an old version of Model RealTime which it will update. See chapter 2.3 for more information. Just press **Next** to proceed.
8. A final **Review Licenses** page will now be shown. If you accept the license agreements, click the appropriate button and then **Finish**.
9. The installation will now start. This can take several minutes so please be patient.



10. After the installation is complete, you will be asked to restart Eclipse. Answer **Yes**. You are not encouraged to try to use Model RealTime without first restarting Eclipse.
 - **NOTE:** The first start-up of Model RealTime can take a long time, especially if you installed it on top of another Eclipse distribution than “Eclipse IDE for C/C++ Developers”. The reason is that all downloaded plugins must be reconciled with already existing Eclipse plugins, and this can take a significant amount of time. Subsequent start-up times will be much faster.
11. When Eclipse has started again you can confirm that Model RealTime was successfully installed. Open the **About** dialog and locate the Model RealTime icon:

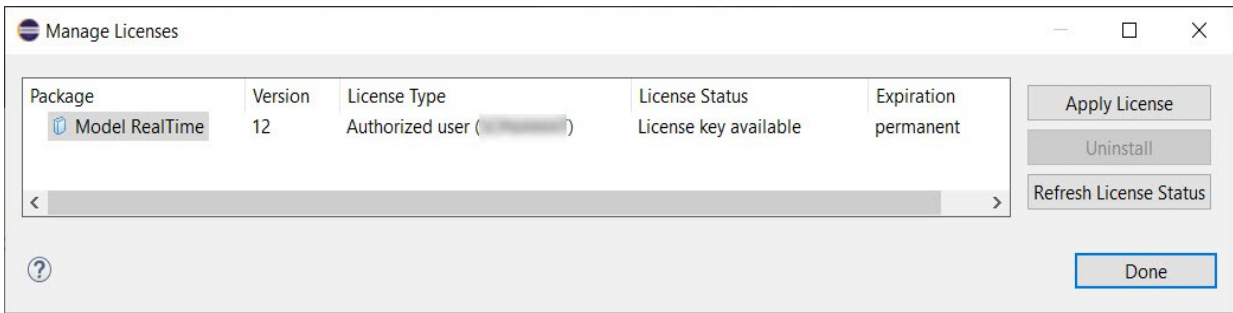


12. Click the button to view the installed version of Model RealTime and release.
You can also find the installed Model RealTime features if you press the **Installation Details** button in the About dialog, and then click the **Installed Software** tab.

2.2 License Setup

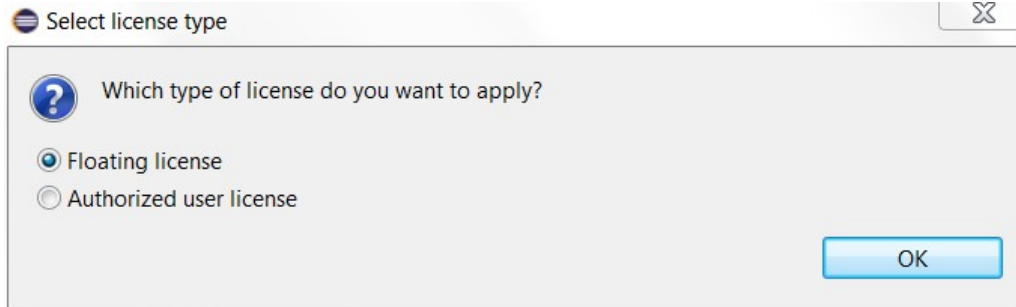
Model RealTime can start without having a license, but you will not be able to do much before you have applied a valid license.

Apply a license using the command **Manage Licenses** in the **Help** menu.



If the license status shows that no license is available you need to apply a license. Do this by selecting the line for Model RealTime and press the **Apply License** button.

A dialog appears that lets you select which type of license to apply:



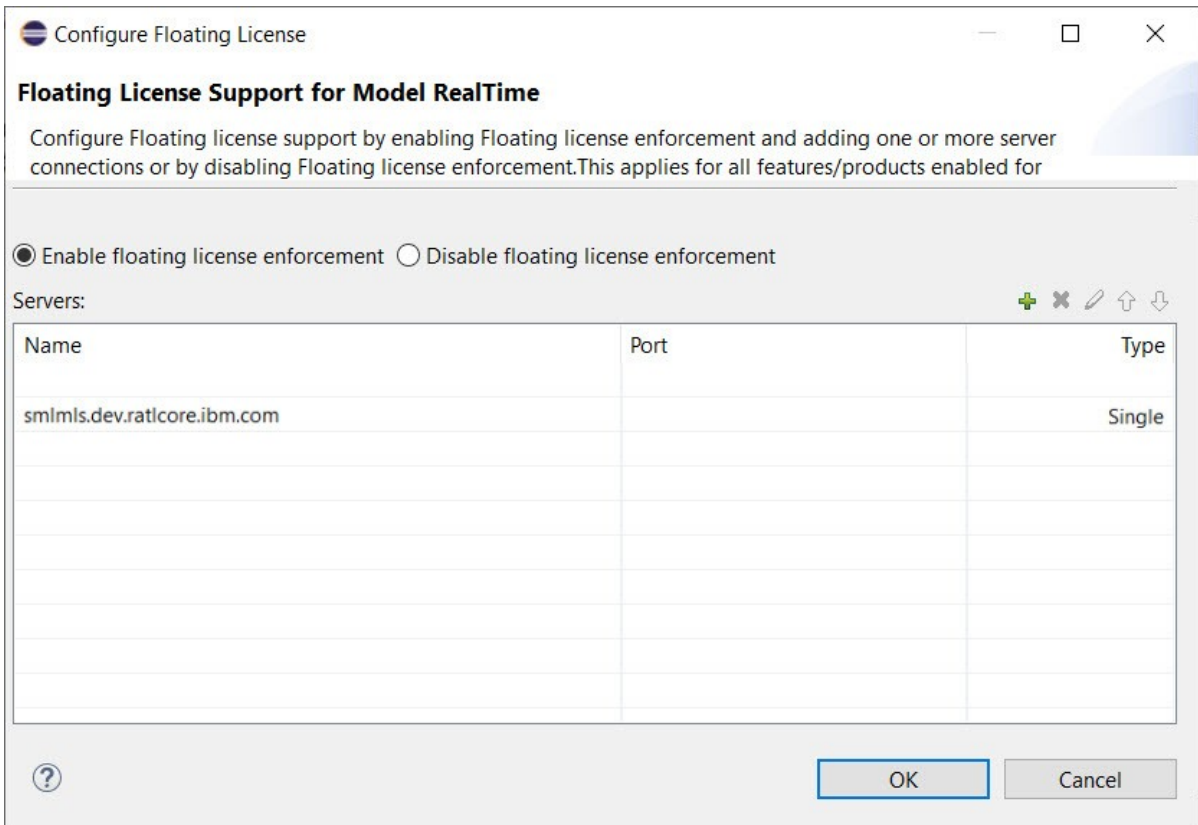
Model RealTime supports two types of licenses; floating and authorized user licenses. The steps for applying them are described below.


NOTE: After a license has been applied you must restart Model RealTime.

2.2.1 Floating License


A floating license resides on a FLEX license server and can be checked out or in by different users over time. Hence, several users can share a single floating license as long as they don't need it at the same time. Token-based licensing is a special variant of floating licensing, where the license that is checked out ("token") can be used by more than one software product.

The dialog for configuring a floating license is shown below.



Make sure that floating license enforcement is enabled, and then use the  button to add the necessary information about your license server. If you want you can specify additional license servers to have some redundancy in case the first one does not respond.

Press **OK** and confirm that the applied license appears as a valid license in the table.

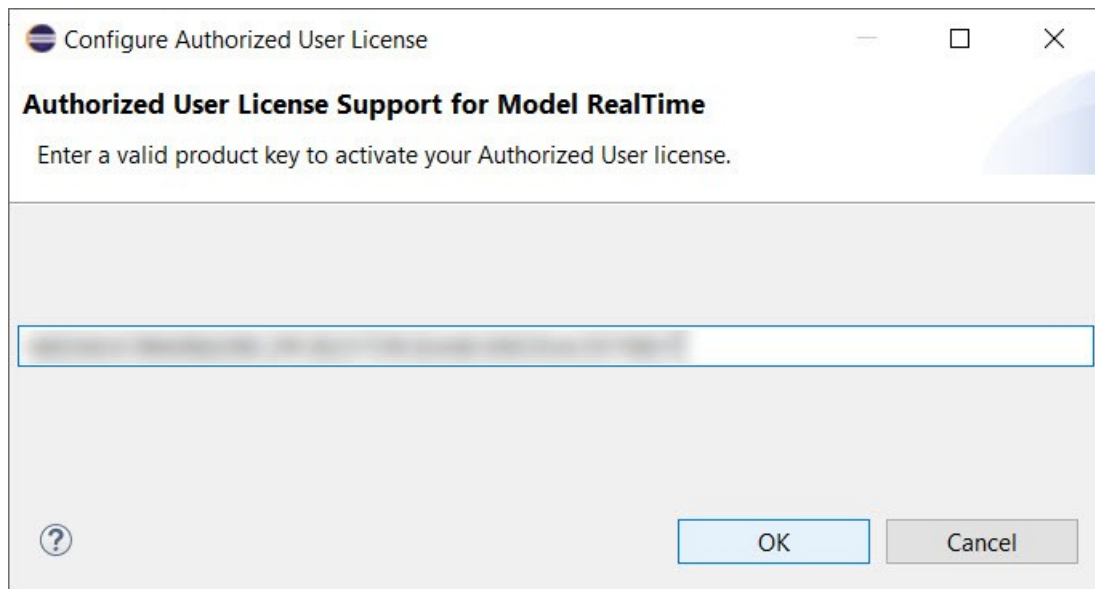
Package	Version	License Type	License Status	Expiration
 Model RealTime	12	Floating	License key available	31-Dec-2023

Finally you must restart Model RealTime for changes to take effect.

2.2.2 Authorized User License

An authorized user license is based on a license key. Each user which applies such a license key is authorized to use a specific version of Model RealTime for a specific period of time (or for ever, in case of a permanent license).

The dialog for entering the license key looks like this:



Enter the license key you have received from IBM. Then press **OK** and confirm that the applied license appears as a valid license in the table.

Package	Version	License Type	License Status	Expiration
 Model RealTime	12	Trial (INT_TEST)	License key available	31-Dec-2023

Finally you must restart Model RealTime for changes to take effect.

2.3 Update

If your Eclipse already contains a version of Model RealTime, you can update it to a later version. The steps you follow then are the same as described above. The only difference is that you will get a message telling you that some or all of the selected Model RealTime features are already installed, and that an update will be performed.

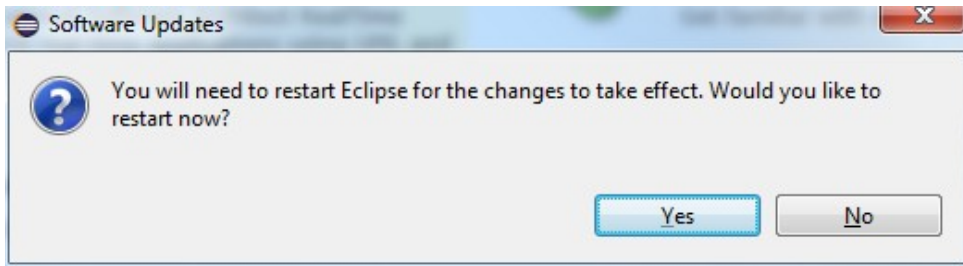
It is normally not necessary to uninstall the old version of Model RealTime before installing the new version.

If you are installing from a repository that is being updated with new releases of Model RealTime you can also update your local installation using the Eclipse command **Check for Updates** in the **Help** menu.

2.4 Uninstall

You can uninstall Model RealTime from the **About** dialog. Press the **Installation Details** button and then go to the **Installed Software** tab.

1. Select all lines starting with “Model RealTime”.
 - **NOTE:** In case Model RealTime was installed from the command line (as described in the next chapter), you may see products grouped by several Model RealTime categories. In this case just select all top Model RealTime categories.
2. Press the **Uninstall...** button and then **Finish**.
3. After Model RealTime has been uninstalled, you will be asked to restart Eclipse. Accept it by pressing **Yes**.



3 Installing from the Command Line

The easiest way to install Model RealTime from the command-line is to use the "Install Product" script which you can find in the Utilities section on the Model RealTime Info Center web site:

[Install Product](#)

If you want to write your own script, or directly install with commands on the command-line, you will use the P2 director application which is part of Eclipse. There are two ways to invoke this application:

1. **Using Java**

```
java -jar <eclipse_install_plugin_dir>/
org.eclipse.equinox.launcher_1.6.400.v20210924-0641.jar -application org.e-
clipse.equinox.p2.director
```

For example, on Windows it may look like this (exact version number of the JAR file may differ):

```
java -jar C:\eclipseCpp\eclipse\plugins\
org.eclipse.equinox.launcher_1.6.400.v20210924-0641.jar -application org.e-
clipse.equinox.p2.director
```

2. **Using Eclipse**

```
eclipse -nosplash -application org.eclipse.equinox.p2.director
```

On Windows, use `eclipse.exe` instead.

In the examples below we use `<p2_director>` to refer to one of the above ways to launch the P2 director application.

NOTE: The same prerequisites regarding running with sufficient privileges apply when using the P2 director application for installing Model RealTime, as when installing from the Eclipse UI.

NOTE: When installing or uninstalling components into an Eclipse installation it's recommended not to have that Eclipse running.

The Model RealTime update site is a mandatory argument in all invocations of the P2 director application. You specify it using the `-repository` command-line argument. For example, on Windows it can look like this:

```
<p2_director> -repository jar:file:d:\downloads\ibm-model-realttime-12.0.0-
v20231211_1631_product.zip!/
```

Depending on what action you want to perform, you will use additional arguments to the P2 director application, as described in the sections below.

3.1 Install

Make sure to use an installation of Eclipse that has no Model RealTime installed. If Model RealTime is already installed you should uninstall it (see chapter 3.2) before installing a new Model RealTime version.

Also make sure that the Eclipse installation that you will install Model RealTime into is configured to not automatically update the Eclipse version. Launch Eclipse, open the **Window - Preferences - Install/Update - Available Software Sites** preference page, and make sure the **Latest Eclipse Simultaneous Release** checkbox is not checked. Then close Eclipse again before installing Model RealTime into it.¹

Use the following command to install all Model RealTime categories.

¹ This step can also be done from the command-line. See the section called "Disabling Latest Eclipse Release" in the "Install Product" script linked above.

NOTE: In Model RealTime version 12.0 **category identifiers begin with version qualifier**. For example, if the product zip file name is `ibm-model-realtime-12.0.0-v20231211_1631_product.zip` then the category identifiers for Model RealTime will start with `v20231211_1631`.

```
<p2_director> -repository <model_rt_update_site> -installIU "v20231211_1631.model-  
realtime.core, v20231211_1631.model-realtime.extra, v20231211_1631.model-  
realtime.integrations, org.eclipse.egit.feature.group" -r  
http://download.eclipse.org/releases/2023-06
```

The category identifiers are given after the `-installIU` argument. See chapter 3.3 for how to extract the identifiers for available categories from the update site.

NOTE: The feature `org.eclipse.egit.feature.group` mentioned above refers to EGit. Normally a version of EGit is already present in Eclipse before you install Model RealTime, but if you choose to install the Model RealTime EGit Integration you should first uninstall the standard version of EGit using a command similar to:

```
<p2_director> -uninstallIU org.eclipse.egit.feature.group
```

3.2 Uninstall

NOTE: In Model RealTime version 12.0 **category identifiers begin with version qualifier**. An example of a command uninstalling all features for version `v20231211_1631` is:

```
<p2_director> -repository <model_rt_update_site> -uninstallIU "v20231211_1631.model-re-  
altime.core, v20231211_1631.model-realtime.extra, v20231211_1631.model-realtime.inte-  
grations"
```

where the category identifiers are given after the `-uninstallIU` argument. See chapter 3.3 for how to extract the identifiers for available categories from the update site.

3.3 Extract identifiers for install categories

The command for extracting the identifiers of available categories in the Model RealTime update site is:

Windows:

```
<p2_director> -repository <model_rt_update_site> -list | findstr "model-realtime." |  
findstr /V "com.ibm.xtools." | findstr /V "com.hcl."
```

Linux:

```
<p2_director> -repository <model_rt_update_site> -list | grep "model-realtime." | grep  
-v "com.ibm.xtools." | grep -v "com.hcl."
```

The interesting lines in the result will look like the following (the qualifiers may be different):

```
v20231211_1631.model-realtime.core=1.0.0.827A-cJIx2BBcMAMMAeGx6GYeS  
v20231211_1631.model-realtime.extra=1.0.0.917U-cJJXE6ED-z0Uz0z0VjmUy1UkD  
v20231211_1631.model-realtime.integrations=1.0.0.8_8E-cJKzU6A7QUcQgp0v6ZBbY0z-9iG
```

The category identifier is the name before the equal sign.

The update site also contains an Model RealTime specific version of EGit which has the same identifier as the standard version of EGit (`org.eclipse.egit.feature.group`).

4 Installing using the Eclipse Installer

The Eclipse Installer is a tool suitable for automating Eclipse-based installations. You can find more information about the Eclipse Installer at https://wiki.eclipse.org/Eclipse_Installer. There you also find instructions on how to download and install the Eclipse Installer.

NOTE: You must use version 1.4.0 or later of the Eclipse Installer. Installation errors will occur if you attempt to install Model RealTime with an older version of the installer.

4.1 Basic usage of the Eclipse Installer

Using the Eclipse Installer to install Model RealTime requires a setup file that specifies what should be installed. The minimal setup file for an Model RealTime 12.0 installation that installs all Model RealTime features, is the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<setup:Product
  xmi:version="2.0"
  xmlns:xmi="http://www.omg.org/XMI"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:setup="http://www.eclipse.org/oomph/setup/1.0"
  xmlns:setup.p2="http://www.eclipse.org/oomph/setup/p2/1.0"
  name="Model RealTime"
  label="Model RealTime 12.0">
<version name="2023_06"
  label="2023_06"
  requiredJavaVersion="1.17">
  <setupTask
    xsi:type="setup.p2:P2Task"
    label="Model RealTime including Eclipse 2023-06">
  <requirement
    name="epp.package.cpp"
    versionRange="[4.28.0,4.29.0)"/>
  <requirement
    name="org.eclipse.platform.feature.group"
    versionRange="[4.28.0,4.29.0)"/>
  <requirement
    name="org.eclipse.rcp.feature.group"
    versionRange="[4.28.0,4.29.0)"/>
  <requirement
    name="org.eclipse.sdk"
    versionRange="[4.28.0,4.29.0)"/>
  <requirement name="org.eclipse.jgit.feature.group"/>
  <requirement name="org.eclipse.egit.feature.group"/>
  <requirement name="org.eclipse.jgit.pgm.feature.group"/>
  <requirement name="_VERSION_.model-realtime.core"/>
  <requirement name="_VERSION_.model-realtime.extra"/>
  <requirement name="_VERSION_.model-realtime.integrations"/>
  <repository
    url="http://download.eclipse.org/releases/2023-06"/>
  <repository
    url="url_to_modelrealtime_repository"/>
  </setupTask>
</version>
<description>Model RealTime Installation Script</description>
</setup:Product>
```

You can copy the text above and do the following replacements.

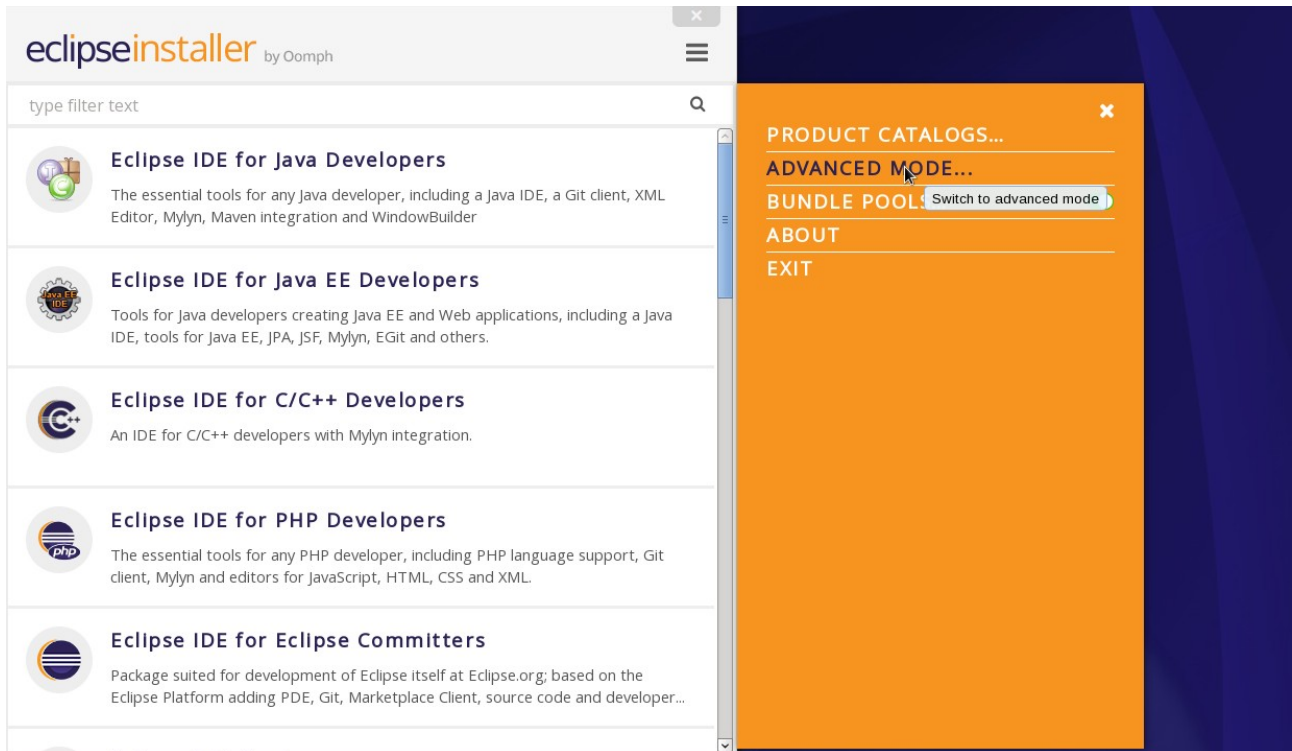
1. Replace ***url_to_modelrealtime_repository*** with your local Model RealTime 12.0 repository location and use a file with this contents as a starting point for your Eclipse installer setup script. Note that copying from PDF format may change the hyphens in the text (“-”) and introduce “soft hyphens”. So check that the “-” characters still remain after copying.

Here is an example of what the repository URL for a local Model RealTime 12.0 repository (unzipped into a folder) can look like in the setup script:

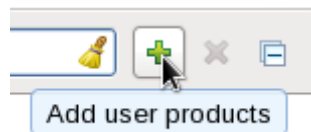
```
<repository url="file:///C:/ibm-model-realtime-12.0.0-v20231207_0635_product"/>
```

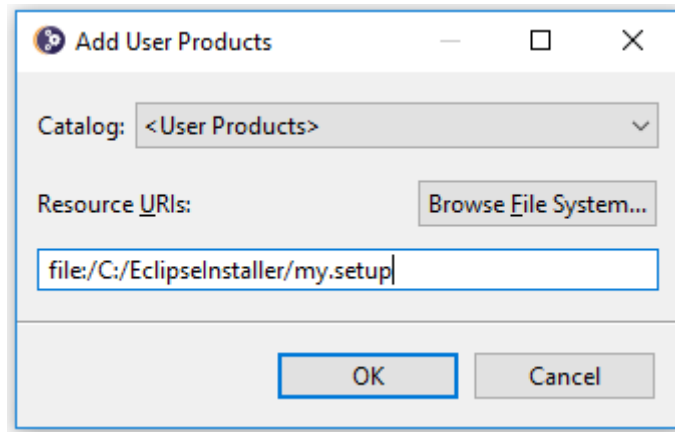
2. Replace ***VERSION*** with the actual version qualifier of the product you will be installing, for example v20231207_0635. See Section [3.3 on how to extract the identifiers from the zip file](#).

To install Model RealTime, start the Eclipse installer and switch to Advanced Mode.



Use the command **Add user products** to choose your setup file.





You can now install Model RealTime from the main Eclipse Installer page by selecting **Model RealTime 12.0** and pressing **Next**.

In the subsequent dialogs the default values work fine, even though you may want to modify the installation folder name. If you add additional Eclipse projects to your installation, remember to confirm that the target platform is set to 2023-06.

NOTE: Make sure the Eclipse installation path does not contain any space characters. There are components in Model RealTime which do not work correctly if they are located in a path that contains a space.

5 Shared Installations and Pre-Configured License Setup

If you would like to share one installation among a group of users, e.g. using a network installation, some special considerations concerning the license setup are needed. The main issue with this scenario is how to apply a valid license at the time of installation, to avoid that each user has to do this when they start Model RealTime.

The license information for Model RealTime is edited in the preference page *RealTime Development – License*. Contrary to most other preferences, this information is not stored in the workspace metadata but in the Model RealTime installation (more precisely in the file `<install-dir>/configuration/.settings/com.hcl.rtist.license.core.prefs`). This means that the person who creates a shared installation can enter the license information right after the installation is completed. All users of that installation will then have the license information already pre-configured and can immediately start to use Model RealTime.

5.1 Read-Only Installation

In a shared installation scenario it is common to have the installation folder to be read-only for regular users. In general this works for an Model RealTime installation but there are two constraints:

- If a scheme is used to dynamically provide end users with plugin updates when starting Model RealTime (e.g. using dropin folders) then due to the way Eclipse works it is necessary to have the system property `install.lic.p2.home` or `com.ibm.cic.licensing.p2.home.dir` assigned to the path of the folder containing the `ibm/p2/license` folder structure also when running Model RealTime. The easiest way to accomplish this is to add the definition to the `eclipse.ini` file in the Model RealTime installation.
- The TargetRTS, Connexis and TcpServer features cannot be installed into a read-only Eclipse installation. **NOTE:** You still can use these features if you install Model RealTime in a different Eclipse and then copy the `rsa_rt/C++`, `rsa_rt/Connexis` and/or `rsa_rt/tcpserver` folders to some shared folder `rsa_rt` and use this folder from the main Model RealTime.

5.2 License Policy File and License Related System Properties

A license policy file is an xml file called `licensep2.opt` that is used by Model RealTime to find out where to look for licenses. This file is in a single-user installation modified automatically when using the **Help->Manage Licenses** command in Model RealTime. A simple example of a license policy file is the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<license key="authorized-user-license-key">
  <flex enabled="true" readonly="false">
    <server name="my.license.server" port=""/>
  </flex>
  <offeringorder readonly="false">
    <offering
      id="com.ibm.rational.software.architect.rt.10"
      version="12.0.0"
      name="Model RealTime"/>
  </offeringorder>
  <componentorder readonly="false"/>
</license>
```

Depending on if you use floating licenses or authorized user licenses, this file will look slightly different. If only floating licensing is used then the “key” attribute for the “license” tag can be omitted. If only authorized user licensing is used, then the “enabled” attribute of the “flex” tag can be set to false.

The location of this file is given by a system property called **com.ibm.cic.licensing.p2.home.dir** that is defined in the **config.ini** file in the **configuration** folder in your Model RealTime Eclipse installation. The folder identified by this property must contain the structure: **ibm/p2/license/licensep2.opt**.

Another system property that is relevant for license setup is **install.lic.p2.home**. The key feature of this property is that if this is defined when installing Model RealTime, then the value will be used to define the license policy folder structure location and thus to define **com.ibm.cic.licensing.p2.home.dir**.

5.3 Pre-Configured License Setup

To pre-configure the license before installing Model RealTime follow these steps:

- Define a license policy file **licensep2.opt** with suitable contents located in a folder structure **ibm/p2/license**.
- Give the system property **install.lic.p2.home** the value of the folder containing the **ibm/p2/license folder** structure. This can be done e.g. by adding a definition in the **eclipse.ini** file in the target Eclipse installation or by providing the definition as a command line argument. As discussed in section Error: Reference source not found updating the **eclipse.ini** is recommended.
- Install Model RealTime as usual.

NOTE: If you install without defining **install.lic.p2.home** you have to add manually the property **com.ibm.cic.licensing.p2.home.dir** to you **config.ini** file.

6 Post-Installation Setup

After installation you should do some post-installation setup tasks before starting to use Model RealTime. This is needed because the standard Eclipse settings with regards to memory etc. are usually not sufficient when working with Model RealTime.

6.1 Modifications in eclipse.ini file

Please refer to [this article](#) for information about setup tasks that are commonly needed for performance and other reasons.

NOTE: Starting from version [4.19 of Eclipse](#) Standard Widget Toolkit (SWT) will report the following error for every non-disposed widget.

```
java.lang.Error: SWT Resource was not properly disposed
```

The errors will be visible in the Error Log view and workspace log file. To disable reporting of such errors a user should locate the following line in eclipse.ini file

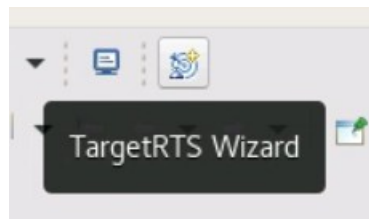
```
-Dorg.eclipse.swt.graphics.Resource.reportNonDisposed=true
```

and replace true with false, so it looks like this:

```
-Dorg.eclipse.swt.graphics.Resource.reportNonDisposed=false
```

6.2 Configuring GTK Theme

On Linux some GTK themes (for example Adwaita on RHEL8) can set tooltip backgrounds to be dark like in the image below.



This should be avoided, because it can cause issues with tooltips Model RealTime will be showing in diagrams. To address this a user can either look for a theme with a light tooltips background or override the theme's settings by creating a file `~/.config/gtk-3.0/gtk.css` with the following contents:

```
tooltip { text-shadow: none; }
tooltip.background { background-color: rgba(255, 255, 255, 1.0);
border: 1px solid rgba(0, 0, 0, 1.0); }
tooltip decoration { background-color: transparent; }
tooltip * { background-color: transparent; color: black; }
```

After saving the file Model RealTime should be restarted for the changes to become effective.

7 Installing without Internet Access

As explained in the chapter [Install](#) it may be necessary during the installation of Model RealTime to download additional Eclipse plugins, that are needed by Model RealTime but are missing in your Eclipse installation. Usually this happens automatically (provided you have marked the option **Contact all update sites during install to find required software**). However, if you don't have access to the internet this obviously won't work. For example, this can happen if your machine is behind a firewall which blocks access to some internet sites such as eclipse.org.

If you get errors like "missing required plug-in" it's likely that Eclipse failed to download the necessary Eclipse plugins. If you cannot temporarily enable the internet access on the installation machine, you can work-around the problem in the following way: install Model RealTime on a different machine which has access to internet and then copy the installation folder to the target machine.