Publishing the TorXakis Eclipse Plug-in

# Introduction

An Eclipse Update Site project has been developed to publish The TorXakis Eclipse Plug-in. People can use the Eclipse Install New Software functionality to install the plug-in from the update site. After that, they will receive updates via the Eclipse Check for Updates functionality. This document describes how to make and publish an updated Eclipse plug-in, how to install the plug-in for the first time, and how to retrieve an update when it is available.

# Create the TorXakis Eclipse plug-in update-site artifacts

During development insights on the language, scoping, validation etc. might change and the plug-in gets modified (eclipse project org.torxakis which can be found in the github repository https://github.com/TorXakis/SupportEclipse). After the changes have been approved the new plug-in has to be published which is done via an Eclipse update site.

To create the necessary files for the update site, carry out the following steps:

## Update version numbers

1. In the “Package Explorer” navigate to “org.torxakis/META-INF” and double-click “MANIFEST.MF”.
2. Select the “Overview” tab.
3. In the “General Information” section change the “Version” field so that it reflects the new version of the plug-in. IMPORTANT: the “.qualifier” part should be left untouched.
4. Save the changes.
5. Do the same for the “org.torxakis.ui/META-INF/MANIFEST.MF” and “org.torxakis.ide/META-INF/MANIFEST.MF”. Use the same version number and leave “.qualifier” untouched and save the changes.
6. In the “Package Explorer” navigate to “org.torxakis.feature” and double-click “feature.xml” and change the version number so that it is the same as the version numbers mentioned above and save the changes.

## Build

1. In the “Package Explorer” navigate to “org.torxakis.update-site” and double-click “site.xml”.
2. Select the “Site Map” tab.
3. In the “Managing the Site” section, remove the entry under “torxakis\_language\_editor”: right-click the entry and select “Remove”.
4. Click the “Add Feature…” button. The “Feature Selection” dialog appears.
5. In the text box enter “org.torxakis.feature”.
6. In the “Matching items” list select the entry that shows “.qualifier” and click “OK”.
7. Move the “.feature” feature inside the “torxakis\_language\_editor” category.
8. Click the “Build All” button. This will build all artifacts required by the update-site.

## Configuration Management

Changes are always made in a feature branch. To make sure that all artifacts are added to the repository, do the following:

1. Open a Windows Explorer and navigate to the feature branch and then to the folder “org.torxakis.update-site/features”.
2. A new jar file has been created:

org.torxakis.feature\_<version>.<yyyymmddhhmm>.jar

This jar file is not yet added to the repository. Add it to the repository <TODO HOW exactly in GIT>[[1]](#footnote-1).

1. Do the same for the not yet added files in the folder “org.torxakis.update-site\plugins”:
   * org.torxakis\_<version>.<yyyymmddhhmm>.jar
   * org.torxakis.ui\_<version>.<yyyymmddhhmm>.jar
   * org.torxakis.ide\_<version>.<yyyymmddhhmm>.jar
2. Commit the feature branch folder.

# First time install

To install the TorXakis Eclipse Plug-in for the first time, carry out the following steps:

1. From the Eclipse “Help” menu select “Install New Software…”. The “Install” dialog appears.
2. Click the “Add…” button. The “Add Repository” dialog appears.
3. In the “Name” field enter “TorXakis Eclipse Plug-in”.
4. In the “Location” field enter one of the following:
   1. “https://<TODO find out on GIT>/org.torxakis.update-site/” to get the latest release version
   2. “https:// <TODO find out on GIT>/org.torxakis.update-site/” to get the latest development version.
5. Click “OK”.
6. Click in the “TorXakis Language Editor” checkbox and click “Next”.
7. Click “Next”
8. Accept the license agreement and click “Finish”.
9. A “Security Warning” pop-up might appear. Click “OK” to continue installing the plug-in.
10. When the installation has finished a pop-up appears that asks to restart Eclipse. A restart is required to use the plug-in so click “Yes”.

# Check for updates

Updates of the TorXakis Eclipse Plug-in are distributed via the plug-in site. The standard Eclipse “Check for updates” mechanism is used here:

1. From the Eclipse menu bar select “Help” 🡪 “Check for Updates”. If there are updates a dialog will pop-up.
2. Click “Next”.
3. Click “Finish”. The plug-in will now be updated.

1. Don’t delete the jar files already in the folder. [↑](#footnote-ref-1)