Setting up Eclipse for CARiSMA

1 Eclipse Modeling Tools

First, you need to install the Eclipse Modeling Tools. You can find it at :
`https://www.eclipse.org/downloads/packages/release/2023-06/r/eclipse-modeling-tools`
If you have problems installing it, check out the installation guide at :
`https://wiki.eclipse.org/Eclipse/Installation`

2 BPMN2 Modeler

If you want to model business processes using BPMN models, you need to do
the following steps:

1. Open Eclipse.
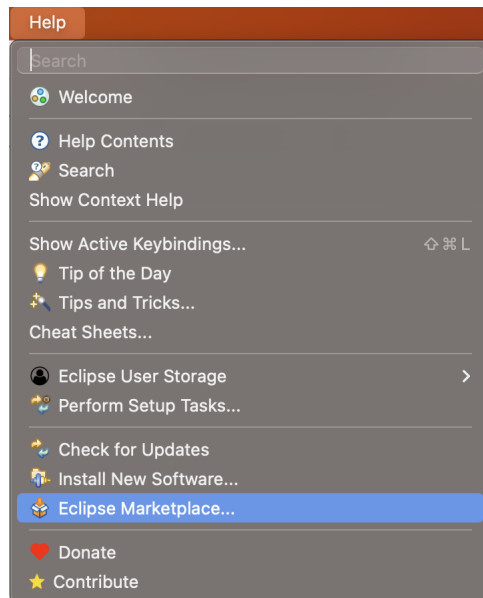
2. Navigate to *Help*.

Figure 1: Navigate to the Eclipse Marketplace

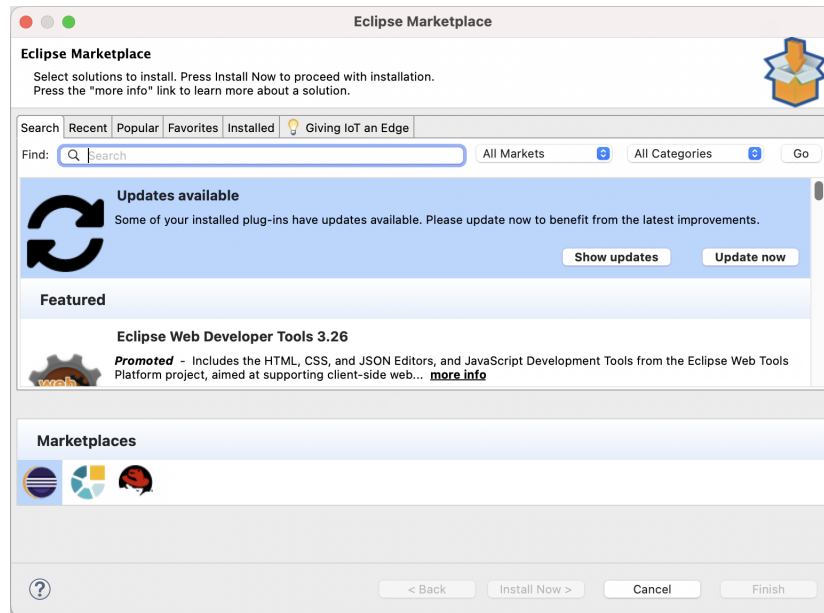3. Select the *Eclipse Marketplace*.

Figure 2: The Eclipse Market Place

4. Search for the *Eclipse BPMN2 Modeler*.

Figure 3: Using the Search Bar
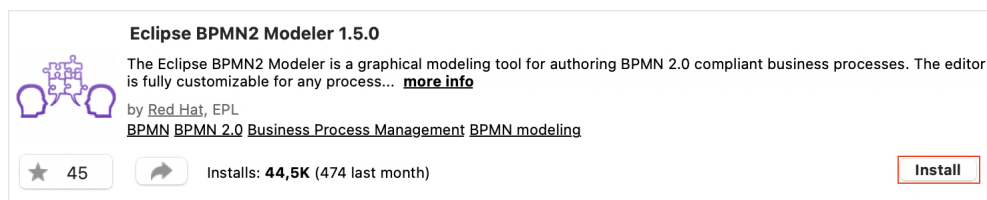
5. Install the *Eclipse BPMN2 Modeler*.

Figure 4: Installing the Eclipse BPMN2 Modeler

6. Select at least the required features and confirm your choices.

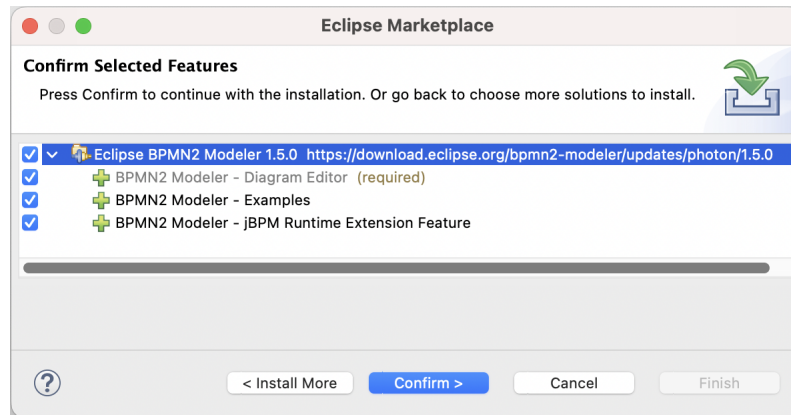7. Wait for the installation process to finish and restart Eclipse.

Figure 5: Selecting Features to be installed

3 Papyrus

After installing the Eclipse Modeling Tools, you need to install Papyrus. You can find the latest version here :
https://www.eclipse.org/papyrus/download.html Otherwise, you can use the update site (for the latest version 03-2023) :
https://download.eclipse.org/modeling/mdt/papyrus/updates/releases/2023-03/

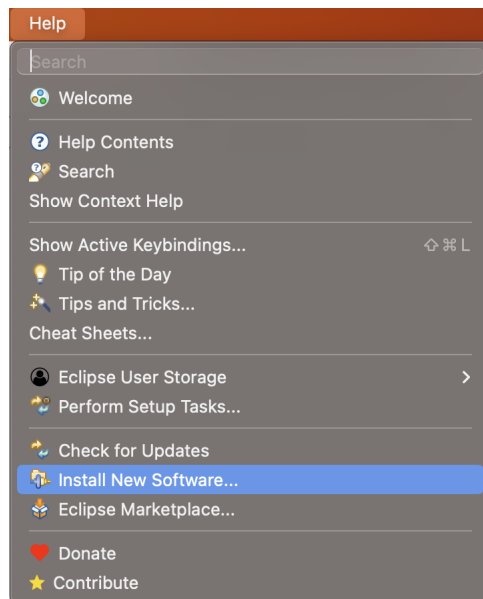1. Open Eclipse.

2. Navigate to *Help*.

Figure 6: Navigate to the new software installation
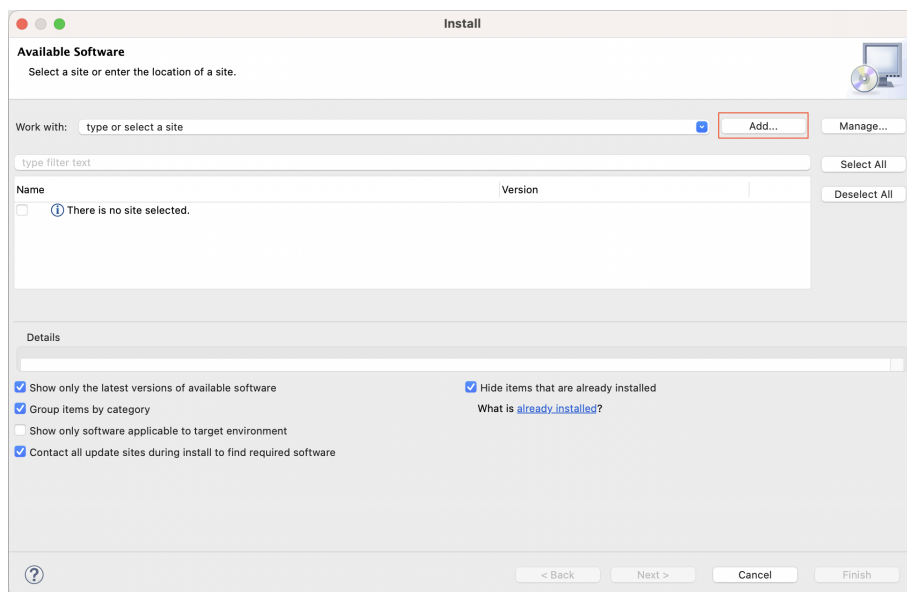
3. Click *Install New Software*

Figure 7: Installation window
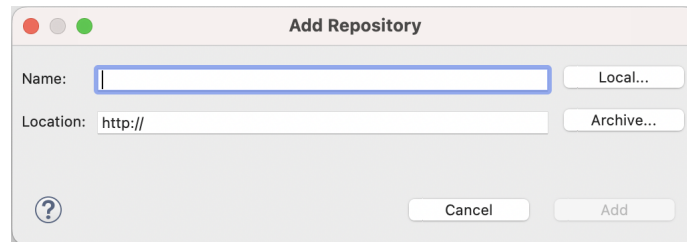
4. Add a new repository

Figure 8: Add Repository Window

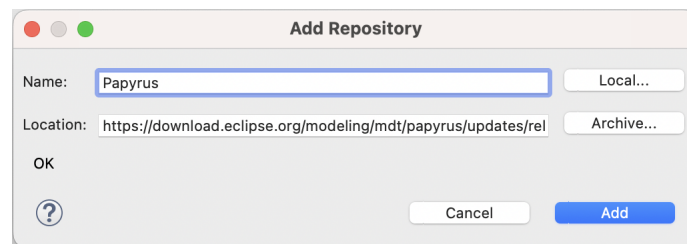5. Paste the update site into the *Location* field and name it.

Figure 9: Add Repository Window with Papyrus update site

6. Press *Add* and choose the features you want to install.

7. At least, install "Papyrus for UML" and "Papyrus for UML Developer Resources".

8. These can be found if you expand the features.

9. Wait for the installation to finish and restart Eclipse.

Figure 10: Papyrus Features

4   CARiSMA

Next, you are ready to install the CARiSMA tool. You can find the latest version here :
`https://github.com/CARiSMA-Tool/carisma-tool` Otherwise, you can also use the update site for the latest version:
`https://rgse.uni-koblenz.de/carisma/updatesite/`. To install CARiSMA, you need to follow the steps 1 - 4 from the Papyrus installation. Afterwards, you do the following:

1. Paste the update site into the *Location* field and name it.

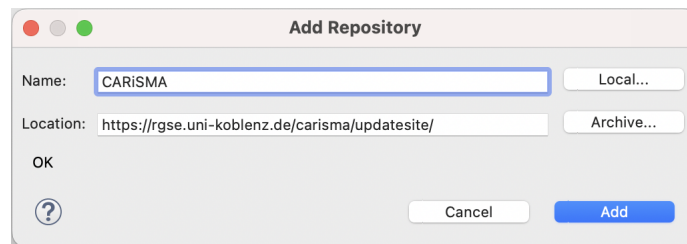2. Press *Add* and choose the features you want to install.

Figure 11: Caption

3. At least, install "CARiSMA Checks for UML2.

4. These can be found if you expand the features.

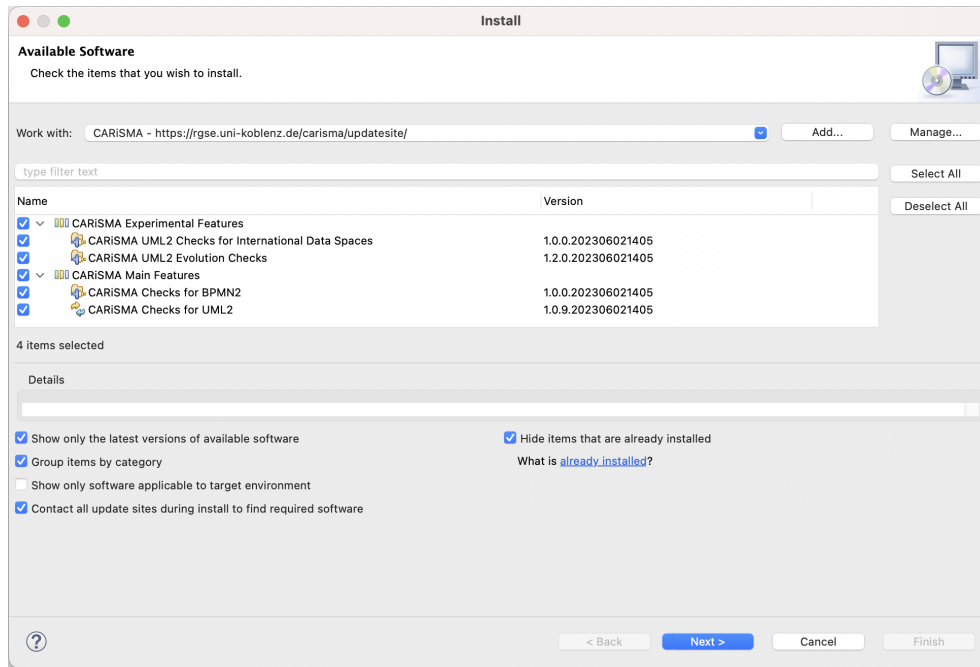5. Wait for the installation to finish and restart Eclipse.

Figure 12: Caption

Sometimes it can happen that the target platform configuration is broken. to fix this issue, you need to navigate *Preferences → Plug-In Development → Target Platform* In the *Target Platform* settings, you can specify the plugins and libraries that should be included in your target platform configuration. You can add, remove, or modify the entries as necessary to ensure that you have the correct dependencies.