

Installation Guide

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1 Description

This document explains the steps needed to install the software developed in the context of the thesis "Model Driven Engineering applied to Network Configuration".

2 Dependencies

In order to install this software, you must have an installation of Eclipse Development Tools, with some extra plug-ins.

2.1 Summary

As a summary, you need the following environment configurations:

- Eclipse Modeling Tools ¹ 2018-09

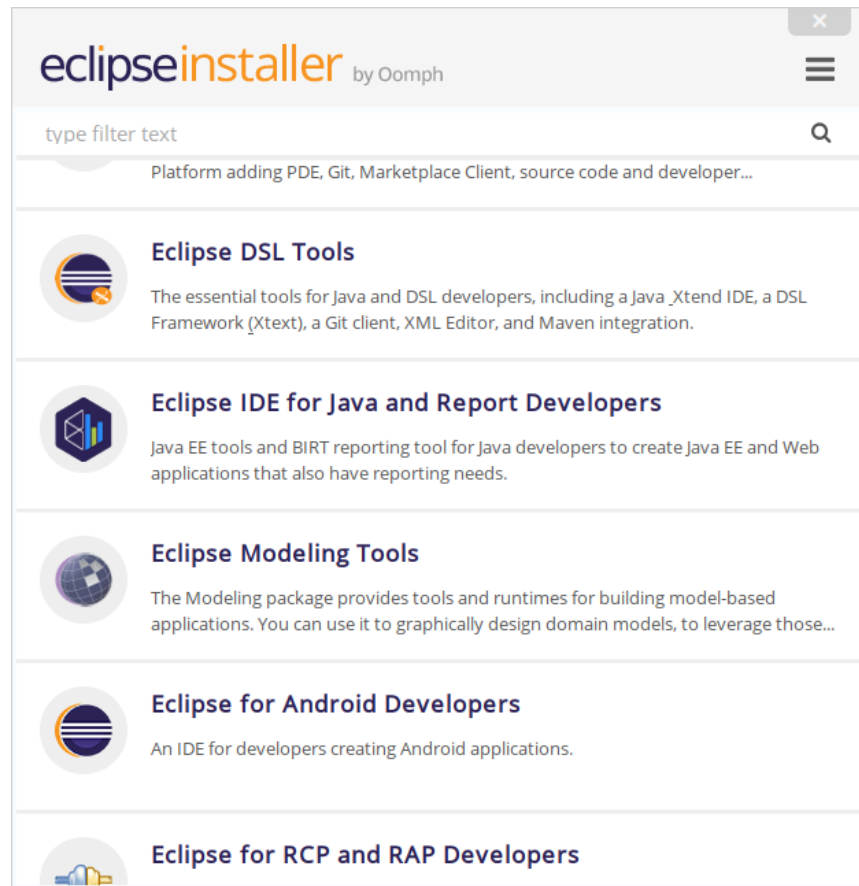
¹Download link for Eclipse Modeling Tools

- Papyrus ² 4.1.0.201809120950
- Acceleo ³ 3.7.8.201902261618

The referenced versions are the latest ones in which the software was tested, we cannot guarantee that the software will work properly in newer releases.

2.2 Eclipse

Regarding Eclipse's installation, we suggest you use the tool Eclipse Oomph⁴. After downloading Oomph, you can run it, which will show the following window, at this point you should select Eclipse Modeling Tools:

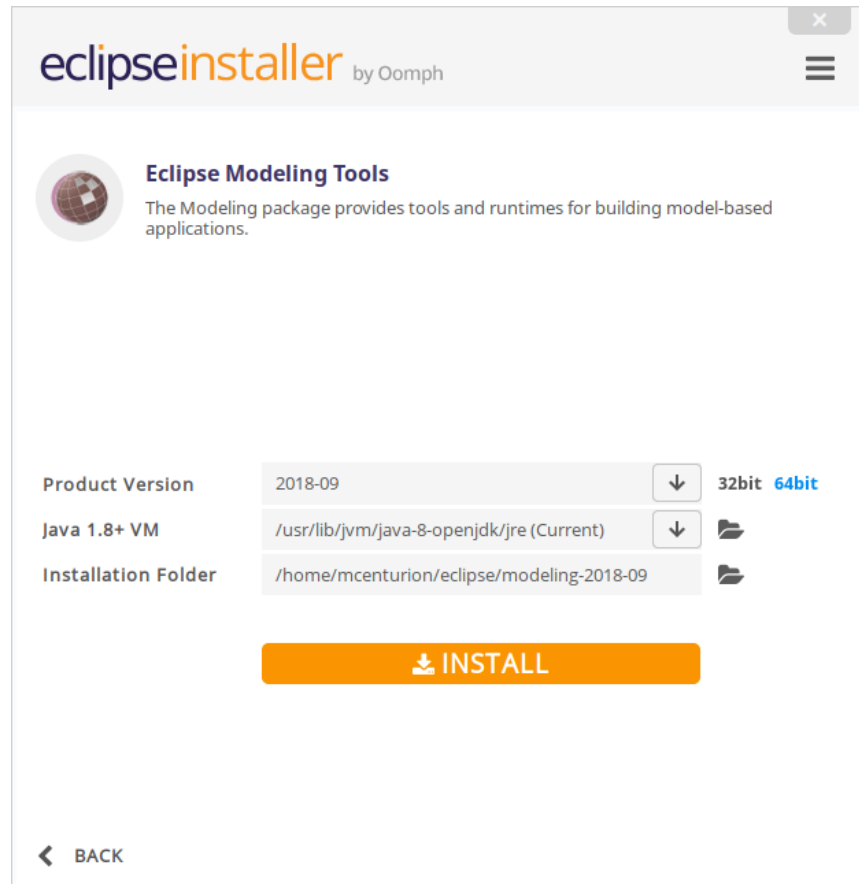


²Papyrus main web page

³Acceleo project main web page

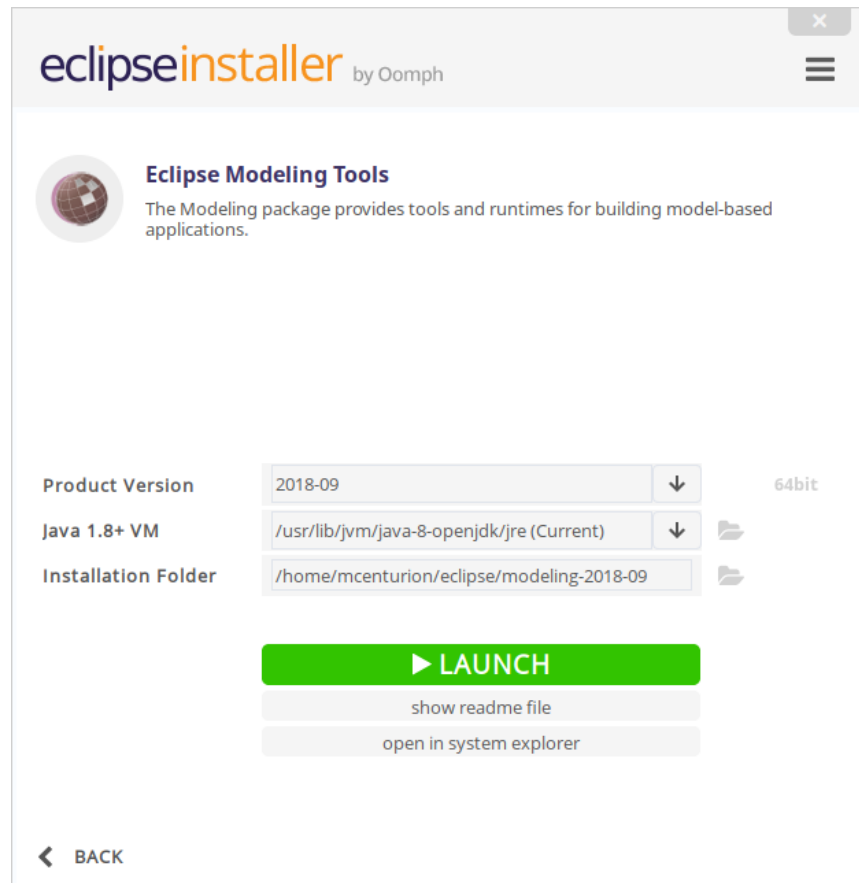
⁴Eclipse Oomph main web page

In the next window you must select version 2018-09:



Clicking **Install** will begin the installation, during this process you may need to accept several licenses in order to proceed.

Once the installation is complete, **Oomph** will allow you to execute **Eclipse**:



This will finish the installation.

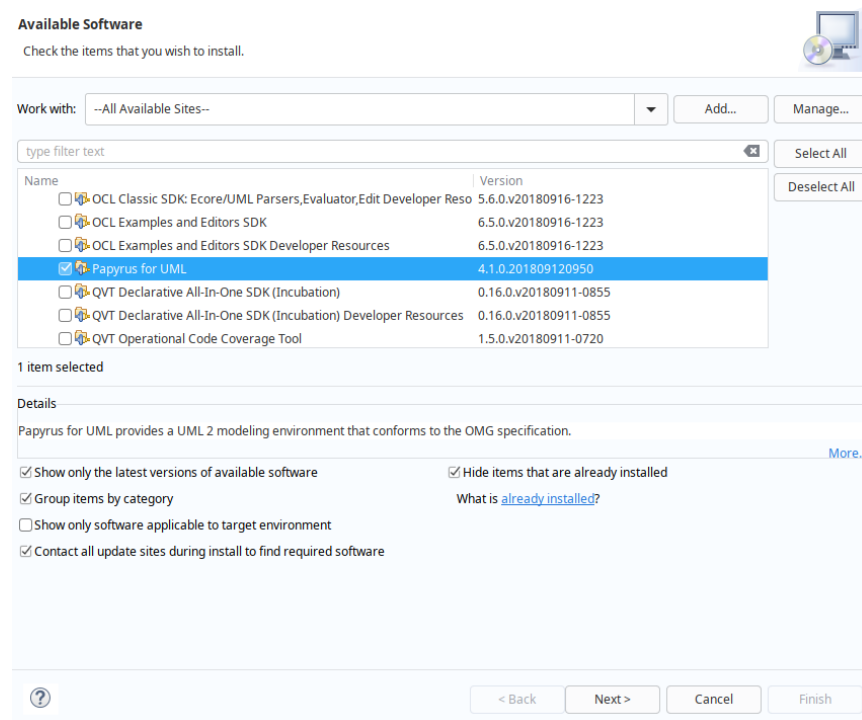
2.3 Libraries

All the libraries that need to be installed can be found in Eclipse's default repositories.

2.3.1 Papyrus

Papyrus can be installed from the software installation window in Eclipse, which you can find under "Help > Install New Software...".

By choosing "All Available Sites" as source, you can easily find Papyrus for UML under the "Modeling" category:



After you select that option, you can continue with the installation process, where you must once again accept all licenses presented.

To finish the installation of **Papyrus**, you will need to restart **Eclipse**. You can ignore this step if you are also going to install **Acceleo** at this moment.

2.3.2 Acceleo

Acceleo cannot be installed from the software installation window as **Papyrus**, but it can be installed from **Eclipse Marketplace**, found at "Help > Eclipse Marketplace...".

Once the marketplace is open, you can find **Acceleo** using the search field, and then install it clicking the "Install" button.


Eclipse Marketplace

Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.



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model. This module uses the standard UML2 metamodel provided by Eclipse Foundation and as such is... [more info](#)

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Acceleo 3.7

Acceleo is a pragmatic implementation of the Object Management Group (OMG) MOF Model to Text Language (MTL) standard. You do not need to be an expert to start... [more info](#)

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3 Installation

The steps to install the developed plug-in are very straightforward.

First of all, you need to have all the required plug-ins:

- mdcms plug-in: provides the UML profile.
- mdcms2puppet plug-in: provides the model to text transformation, from mdcms to puppet code.
- mdcms2puppet-ui plug-in: adds the UI element to the right click menu on .uml files.

In order to install these plug-ins, you just need to:

1. Find **Eclipse** installation directory.
2. Find the directory named "dropins".
3. Copy all .jar files from the plug-ins to the "dropins" directory.
4. Start **Eclipse**.

After executing **Eclipse** you can verify that the plug-ins were installed correctly by navigating to "Help > About Eclipse IDE > Installation Details", and search for them on the tab "Plugins".

