

Tutorial 0 — Installing the VS Code Extension

Overview

This INTO-CPS tutorial will show you how to:

- 1. Install the Cosimulation Studio extension for Visual Studio Code
- 2. Install the Maestro COE (Co-simulation Orchestration Engine) w. Web API

Requirements

The tutorial assumes that you have the following pieces of software installed:

- Visual Studio Code. Can be installed from https://code.visualstudio.com/
- Java SE Runtime Environment 11, e.g. the latest version of the Temurin distribution from https: //adoptium.net/temurin/releases/?version=11, making sure to select your corresponding operating system in the dropdown menu.

If any of these are missing from your system, it can make it difficult or impossible to follow certain steps of the tutorial, or some parts of the tool will not work, so ensure that the dependencies are properly installed before continuing. Unless otherwise stated, all the instructions in this tutorial are independent of whether you are using Linux, Windows or macOS.

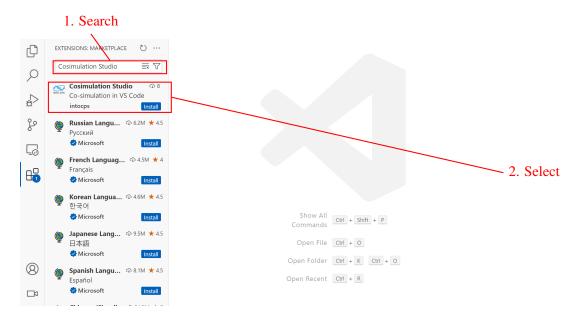
1 Install the Cosimulation Studio extension for Visual Studio Code

Step 1. To install the Cosimulation Studio extension, first open the Extensions view in Visual Studio Code.

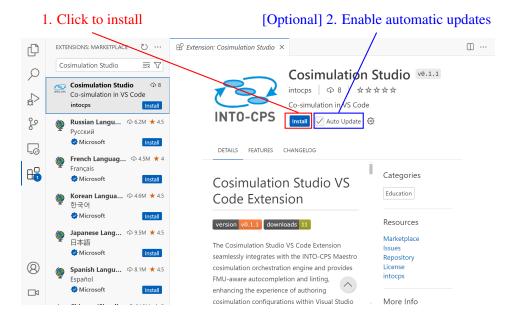




Step 2. Then search for "Cosimulation Studio" and select the extension published by "intocps".

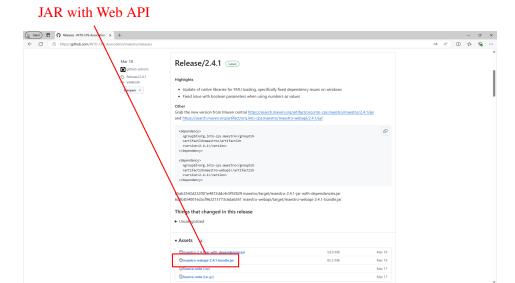


Step 3. Now install the extension. Optionally enable automatic updates to always get the most recent version of the extension, when new releases are published.



2 Install the Maestro COE (Co-simulation Orchestration Engine) w. Web API

Step 4. Find the latest release of Maestro on the GitHub Releases page at https://github.com/INTO-CPS-Association/maestro/releases/, and download the file named maestro-webapi-<latest-version>-bundle.jar.



Step 5. To verify that your installed version of Java works with the downloaded JAR, run java -jar maestro-webapi-<latest-version>-bundle.jar in a terminal. You should see something similar to the image below:



Step 6. As a final check, with Maestro running in the background, open http://localhost: 8082/ping in your browser. You should see an almost blank page with only the text "OK" to indicate that Maestro is running properly.

Congratulations!

You have now successfully installed the Cosimulation Studio extension for Visual Studio Code and Maestro. You can now move on to the next tutorial that will describe how to set up and run your first simulation.