Tutorial 0 — Setting up the environment

Overview

This INTO-CPS tutorial will show you how to:

1. Download and install the INTO-CPS tool
2. Install the COE (Co-simulation Orchestration Engine)
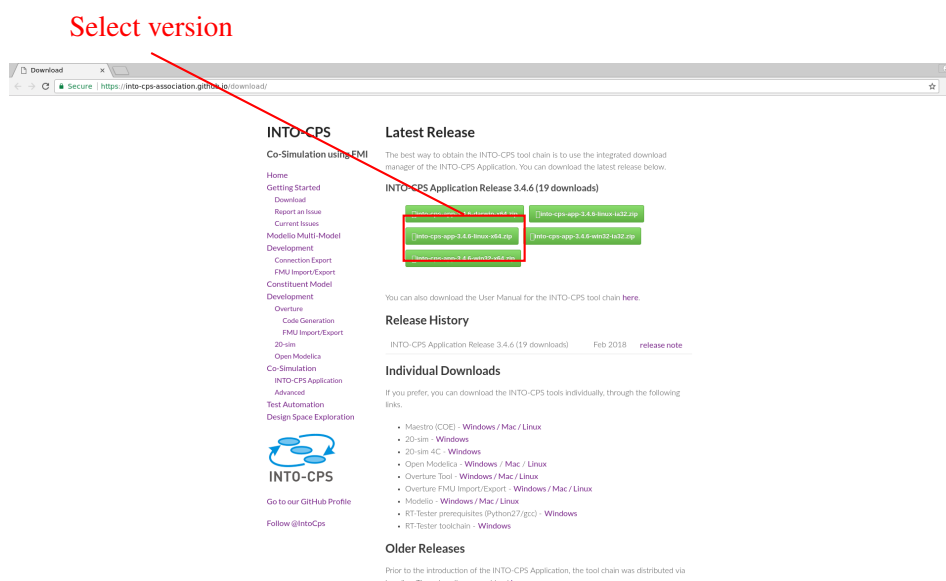3. Uninstall the tool (Optional)

Requirements

Although this tutorial is self-contained and depends only on a standard installation of a Linux, Windows, or macOS system, you need to ensure some dependencies are installed in your system in order to be able to fully use the INTO-CPS Application. Namely:

- Java SE Runtime Environment 8. It is recommended to install from the following files:
    - win64 - jre-8u161-windows-x64.exe (md5: f728297a275699b9151d07d768de7bac), which can be downloaded from `https://www.oracle.com/technetwork/java/javase/downloads/java-archive-javase8-2177648.html`
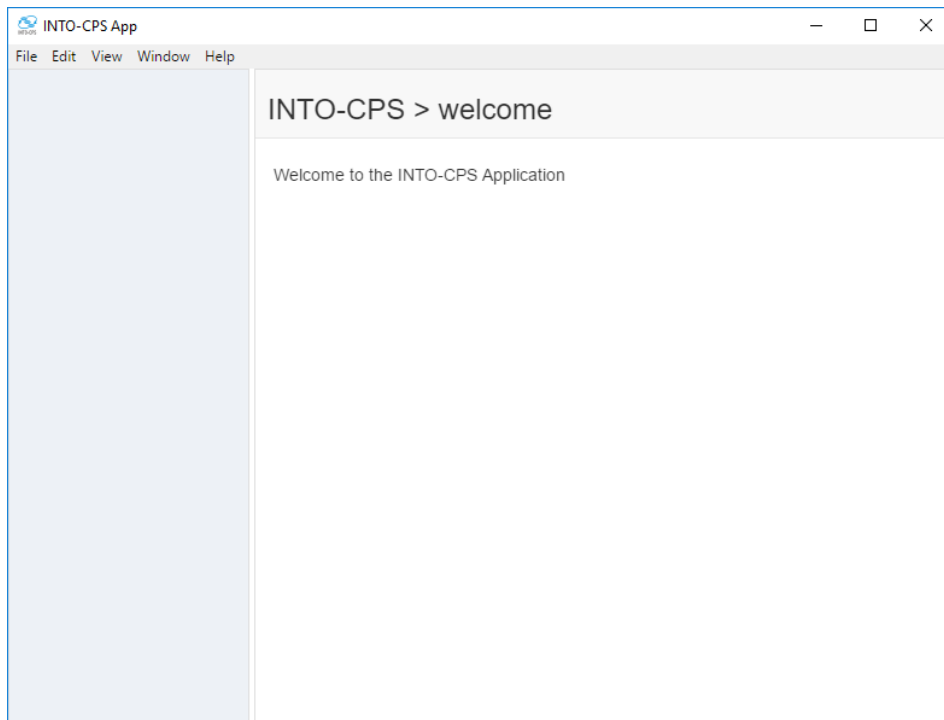   - linux64 - openjre-8
- Git

1   Download and install the INTO-CPS tool

Step 1. The INTO-CPS Application can be downloaded from `https://into-cps-association.github.io/download/`. Unzip the contents in a directory and inside it you will find the into-cps-app-3.4.8 executable you need to launch in the next step.

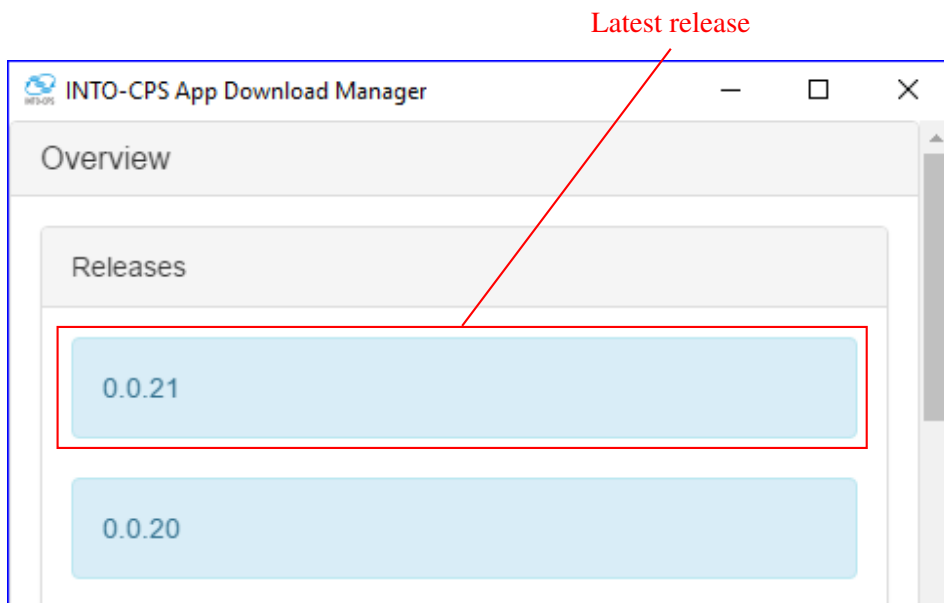## 2   Install the COE (Co-simulation Orchestration Engine)

Step 2. Launch the *INTO-CPS Application*. On first loading, it will look like the screenshot below. If you have opened a project previously, that project will be opened automatically.
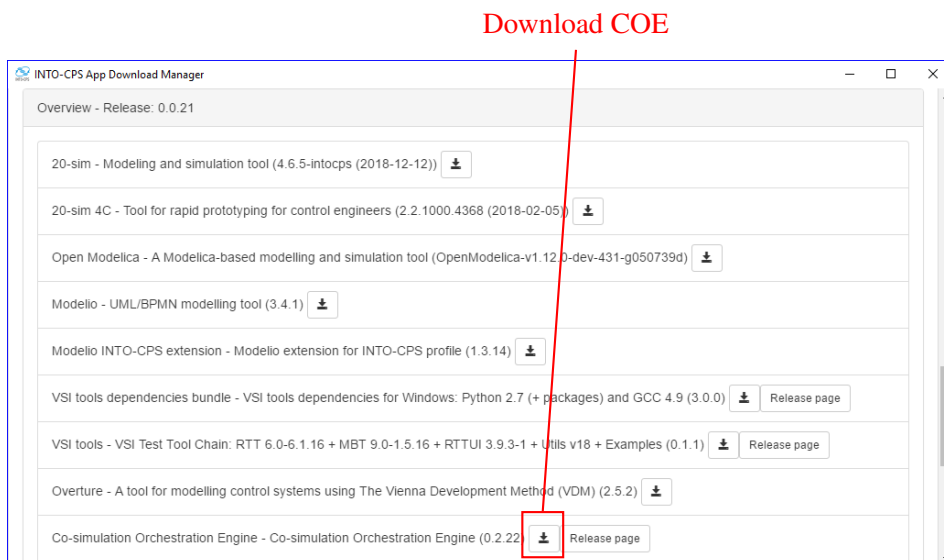

Step 3. To install a tool, select *Window > Show Download Manager*.

Step 4. A new window with release options appear. Press the latest release (the one on the top).
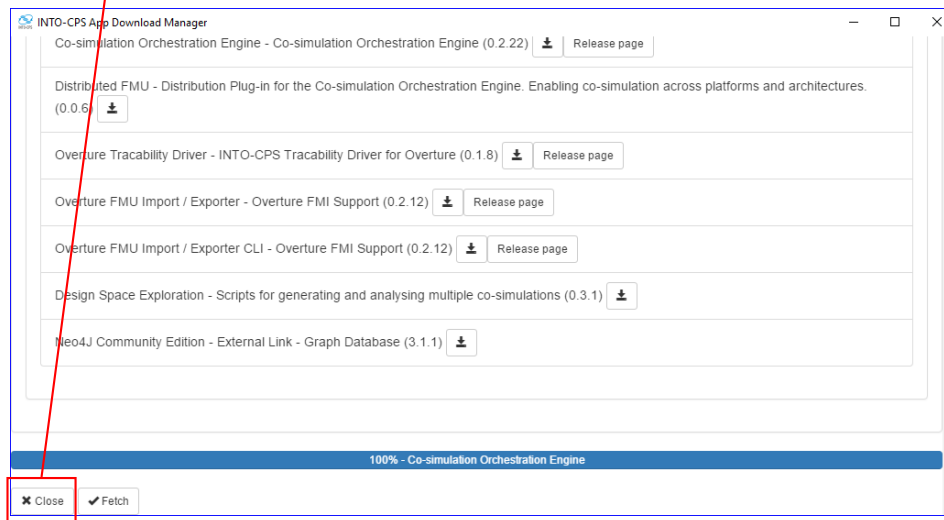
Latest release

Step 5. Once the release is opened, you will see the various tools that can be installed using the INTO-CPS Application. To install the COE please find the "Co-simulation Orchestration Engine - Co-simulation Orchestration Engine" entry and press the down arrow and confirm.

Download COE

Step 6. When the COE is downloaded the progress bar stalls on 100% as shown in the figure. You should now click on the Close button.

Close window

Congratulations!

You have installed the INTO-CPS Application and the COE. Your system is ready for the next tutorial.

3 Uninstall tool (Optional) [In case of emergency]

To completely remove the tool from your system you must remove the folder created when unzipping the tool during the installation process and the following folders:

Step 7. Remove the `into-cps-projects` folder which contain all the projects and downloaded tools. The following are the shell commands you should run depending on your operating system:

- Linux: `rm -rf ~/into-cps-projects/`
- Windows: `rm -Recurse -Force $HOME\Documents\into-cps-projects`
- macOS: `rm -rf ~/into-cps-projects/`

Step 8. Remove the configurations folder. The following are the shell commands you should run depending on your operating system:

- Linux: `rm -rf ~/.config/INTO-CPS\ APP/`
- Windows: `rm -Recurse $HOME\AppData\Roaming\INTO-CPS APP`
- macOS: `rm -rf ~/Library/Application Support/INTO-CPS APP/`