This is a developer guide for the Java version of the Eclipse BaSyx Project.

# Quick Start

## Setup

Eclipse Java EE IDE for Web Developers  
Java™ SE Development Kit 8, Update 152 (JDK 8u152 or higher)

## Download the project and contribute to the Git Repository via Gerrit Code Review

The following Eclipse Projects can to be imported to Eclipse:

* basys.sdk
* basys.components
* basys.examples

In order to start developing on the project, the first thing you need to do is

1. Make sure that each project has a JDK selected as JRE System Library
2. Right-click “basys.sdk” >> Select “Run As” >> Select “Maven Install”

Maven will download all required sources, run the unit and integration tests and export a jar of the SDK to the .components and .examples project. The mentioned projects are depending on each other in the following sense:

basys.sdk

basys.components

basys.examples

That means the basys.sdk project is required as a .jar file in each of the local maven repositories of basys.examples and basys.components. If you want to make changes to the basys.sdk project, you need to make a maven install in order to see the changes reflect in the other projects.

Before you get started, the second task you need to do is to update the .sdk project to align with the maven configuration. For this what you need to do is

1. Right-click “basys.sdk” >> Select “Maven” >> Select “Update Project…” (ignore errors)

Finally, the last step is to run a Maven clean compile to make sure that the changes you do during coding are directly reflected when you execute single unit tests manually.

1. Right-click “basys.sdk” >> Select “Run As” >> Select “Build…” >> Type “clean compile” and hit Enter

Note: Make sure to clean compile after each install! Otherwise, your changes in the code will not be reflected in manual unit testing.