

# Step by step guide, for importing the KST to KUKA's Sunrise Workbench:

This documentation is used to guide the user through synchronizing the **KST\_X.XX** server into his/her KUKA iiwa controller. To do so you have two options, the first option (A): is the easiest, in such a case the user has to download the KST server project from the provided link, and synchronize to his/her robot, the second option (B) is through using the source code of the KST server project.

## A- Option (A) Synchronizing the KST server project into KUKA iiwa robot:

- 1- Download the latest version of **KST** server from the link:  
[https://www.dropbox.com/sh/b8zh4e50gpf8gpa/AAC9UQz066bB\\_4jtYC1ttDI2a?dl=0](https://www.dropbox.com/sh/b8zh4e50gpf8gpa/AAC9UQz066bB_4jtYC1ttDI2a?dl=0)  
The downloaded ZIP file contains the KUKA Sunrise project files of the toolbox.
- 2- Unzip the file **KST\_X.XX.rar** to the folder **KST\_X.XX**.
- 3- Open the **SunriseWorkbench** program, provided to you by the manufacturer.
- 4- From the menu-bar of the **SunriseWorkbench** click on **file**, then from the dropdown menu click on **Import**, as shown in Figure 1.

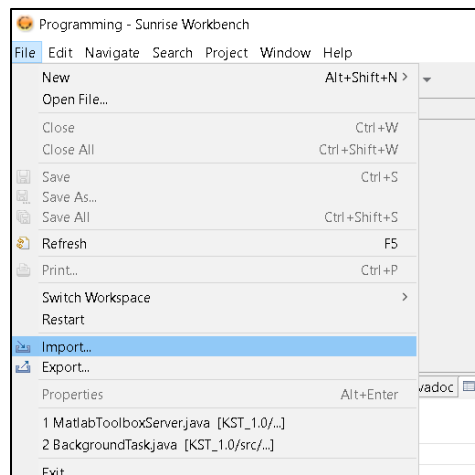


Figure 1 Importing the KST into SunriseWorkbench

- 5- The **Import** dialog box will appear, as shown in Figure 2.

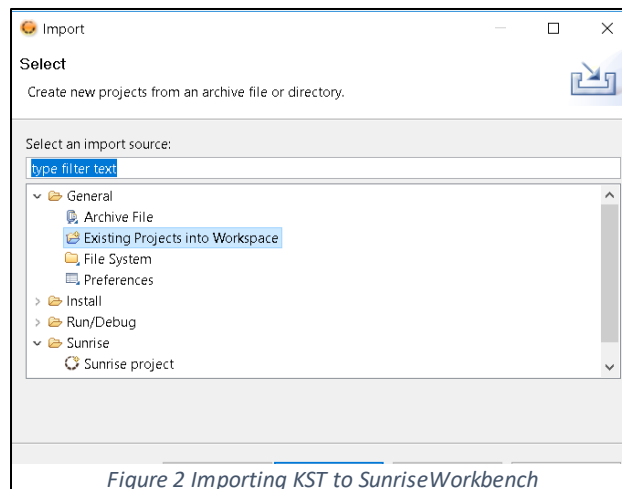


Figure 2 Importing KST to SunriseWorkbench

- 6- From the **Import** dialog box, click on the arrow on the left of **General**, a drop down menu will appear, then choose **Existing Projects into Workspace**, then click on **Next** button, a new dialog box will appear, as shown in Figure 3.

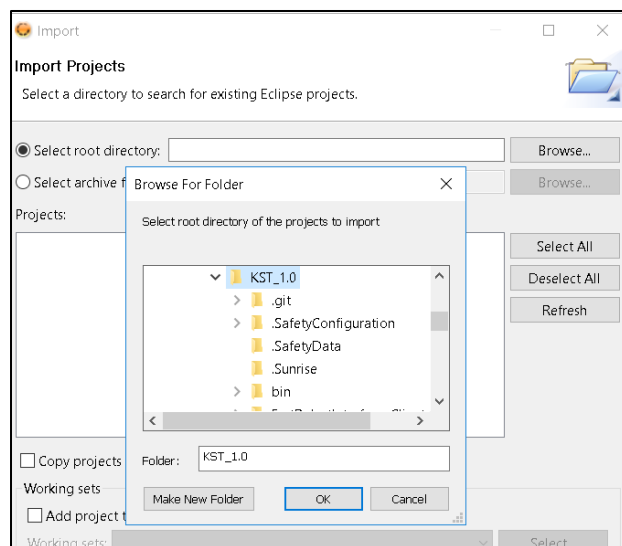



Figure 3 Importing KST to SunriseWorkbench

- 7- From the dialog box of the previous figure, click on **Browse** button, then choose the path of the folder **KST\_X.XX<sup>1</sup>** from the **Browse For Folder** popup dialog.
- 8- Finally, after specifying the project, click **OK** button, then click the **Finish** button, so the toolbox server **KST\_X.XX** will be imported to your projects workspace.

<sup>1</sup> This folder was defined previously in step 2.

- 9- After importing the **KST\_X.XX** server to your workspace, you have to synchronize the project to the robot, this is done by clicking on the synchronization icon  in the toolbar of the **SunriseWorkbench**.

## B- Option (B) add the source code for the KST server to your project:

- 1- From the Sunrise WorkBench, create a new project taking into consideration the type of your robot, and flange.
- 2- In your newly created project, add a reference to the direct servo and the smart servo libraries.
- 3- From GitHub repository, go to the folder ([KUKA Sunrise server source code](#)) and copy the source code of the KST into your newly created project.
- 4- Synchronize the project into KUKA robot.