## Importing TcEvents

1. Add existing item to type system

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1. Navigate to file XC0301.tmc (RML Machinery Ltd\Automation Planner - Documents\Engineering\04 SOPs\03 Beckhoff\TcEvents).
2. You can choose which events you wish to import by navigating into the type system.

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1. Once this is complete build the project. All the information is now part of the project type system. This means you can remove the XC0301.tmc file form your project. Right click and when prompted click remove. **Note: Do not click delete**. This is a pointer to the .tmc and if you use delete, the file will be deleted from the sharepoint location.

## Importing AOI Libraries

Adding the RML AOI libraries to your project is the same process as adding any library and is carried out as follows:

### Install Latest Library

1. Right click on **References** and select **Library Repository**.
2. Select **Install…** and navigate to RML Machinery Ltd\Automation Planner - Documents\Engineering\01 Engineering Tools\02 AOI and Faceplate Templates\02 Beckhoff\1 AOI Library Source Code.
3. Select the RML reference library.

### Add Library to your Project

1. Right click on references and select Add Library.
2. Navigate to the library.

### Add Dependencies

The AOI library contains dependencies to a variety of other libraries. To determine what libraries, you need to add simply right click on the AOI library and select **Dependencies…**

**Note:** In your project supress warning C0373. This can be done by right the PLC project, navigating to **Properties** and finding the warning within **Compiler Warnings**. See below.

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## Updating RML AOI Library

The intention of shifting the RML AOI’s into a reference library is to avoid code being changed within the AOI’s without proper documentation. As such the process for making updates and changes to the AOI is holistic.

The stages are as follows:

### Making Your Changes

To make changes to the AOI instructions you will need to set up a project with the AOI source code. This can be found at \RML Machinery Ltd\Automation Planner - Documents\Engineering\01 Engineering Tools\02 AOI and Faceplate Templates\02 Beckhoff\1 AOI Library Source Code.



Create an empty TwinCAT PLC project and import the type system and all the necessary libraries. The libraries must be included else they will not be noted as a dependency leading to frustrations for future developers who will use the final library.

Graphical user interface, application

Description automatically generatedOnce you have completed making the necessary code changes save the PLC project update the version number in the project properties and then save as a library.

Once the library is saved export the objects as a zip to ensure the source code matches the library and update the git. When updating the git ensure you add a commit message that is aligned with the changes you have made and apply a tag that matches the revision number of the library. If you wish to do multiple commits before committing the final deployed version ensure you do this on a separate branch.