Appendix 7: Creating a library

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Introduction

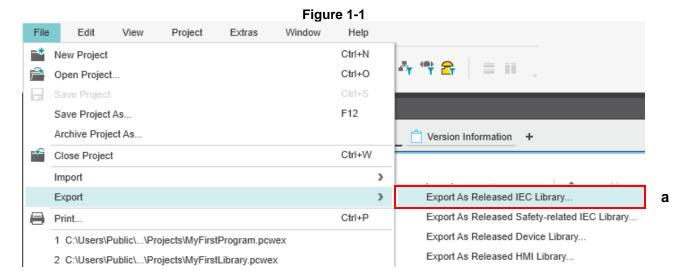
This guide will go over the steps to setup I/O modules in PLCnext Engineer.

Objectives

Create a library

1 – Creating a library

- 1. Open the project you want to release as IEC 61131-3 library.
- 2. Select 'File > Export > Export as Released IEC Library' (a). See figure 1-1.



3. In the appearing dialog, enter a meaningful library name (a). See figure 1-2.

NOTE: If you do not enter/select a directory path for the new library file, the entered library name is automatically completed with the path to the default library directory. (This default path can be changed under 'Extras > Options', dialog area 'Tool | Directories'.)

- 4. Optionally, you can define a version number and enter a description (b). See figure 1-2.
- 5. To protect your know-how when distributing libraries, you can define the visibility of each user-defined POU and data type (c). See figure 1-2.
 - Visible The program/function/function block is available, and the code can be viewed in read-only mode.
 - Restricted The program/function/function block is available, and code is unviewable.
 - Hidden The program/function/function block is not available, and code is unviewable.
 This is for code that is not necessary for users of the library to have access to in their code.

NOTE: By default, each exported standard POU/data type is set to 'Visible'.

- 6. Set the redistribution of your library by selecting an entry from the 'Redistribution' drop-down list (d).
 - Unlimited (cascaded) Your library can be redistributed. This means a user can create a library with your library included in the release.
 - One level only Your library can be included in a project but cannot be redistributed within a new library.

NOTE: By default, the project is set to 'Unlimited (cascaded)'.

- 7. If the same project has already been released as an IEC library, the checkbox 'Create new library ID' is active. If checked, the library ID is not overwritten by a new ID. Instead, the same ID is used again (e).
- 8. Optionally, you can add help files (*.chm) that provide help information on the library to be released. See the topic "Providing Help Files and Library Description Files" in the help documentation for details (f).
- 9. After setting the visibility for the POUs and data types, save the current settings to keep these settings for future exports by pressing the 'Save & Close' button (g).
- 10. Create the library by exporting the POUs and data types with the specified visibility by pressing the 'Release' button (h).

