TIA Add-In Excel Exporter

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1 Introduction

1.1 Overview

The TIA Portal Add-In "ExportDataSetToExcel.addin" enables the user to export PLC tags into an excel sheet.

One can either export a single PLC tag or an entire group.

1.2 Used technologies

- Visual Studio 2022
- .NET Framework 4.8
- TIA Portal V17

The Excel Exporter consists of the following two components:

Table 1-1

Component	Version	Task
ExcelExportLibrary	V1.0.0	This component contains the logic of the CLI and the main program logic. It is either called via the Add-In.
ExportDataSetToExcel	V1.0.0	Contains the logic of the Add-In.

1.3 Principle of Operation

To export the data from the TIA-Portal to a Microsoft Office object models (excel or word), the Add-In has to use the Microsoft.Office.Interop.Excel/Word assembly. Due to the fact that the Add-In is a partially trusted framework it is not possible to use the assembly like Microsoft.Office.Interop.Excel directly in the Add-In code.
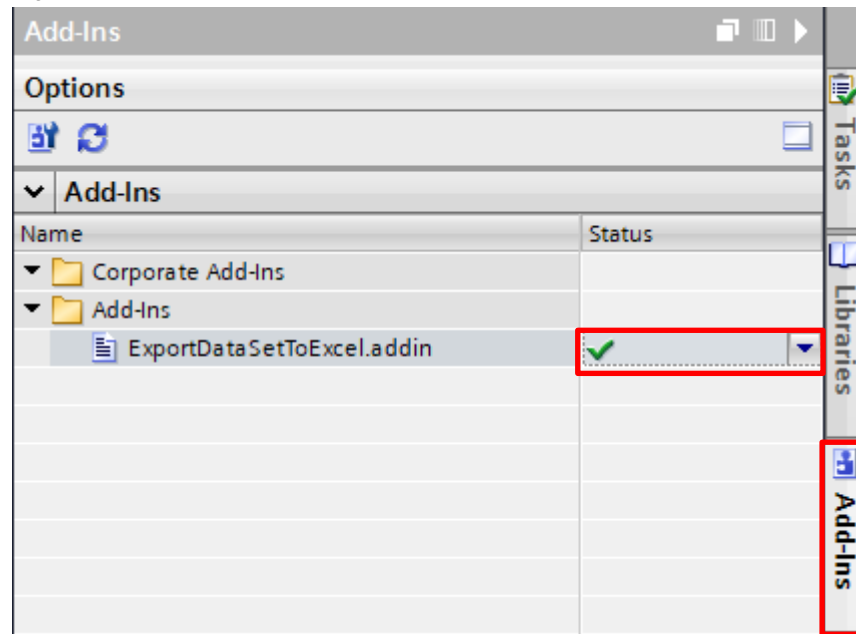
2 Installation

2.1 Storage of the Add-In

This application consists of the "ExportDataSetToExcel.addin" file. In order to access the functions, the file must be stored at this location:

.\Program Files\Siemens\Automation\Portal VXX\Add-Ins

2.2 Activating the Add-In

The activation of the Add-In can be done like this (Figure 2-1):

Figure 2-1

On the Add-Ins tab, search for the "ExportDataSetToExcel.addin" file and active it by using the directly adjacent drop-down list.

Afterwards an information is opened which one must accept. This grants the permissions for the execution of the Add-In. After the confirmation the Add-In is activated and can be used directly.

2.3 Openness User Group

To use any Add-In the user must belong to the "Siemens TIA Openness" user group. For further information please read the manual "SIMATIC Openness Automating creation of projects"
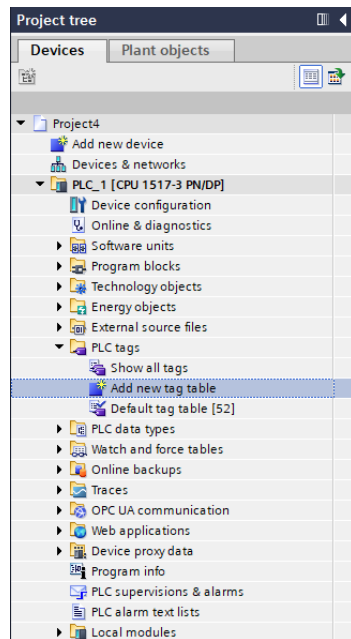https://support.industry.siemens.com/cs/ww/en/view/109477163
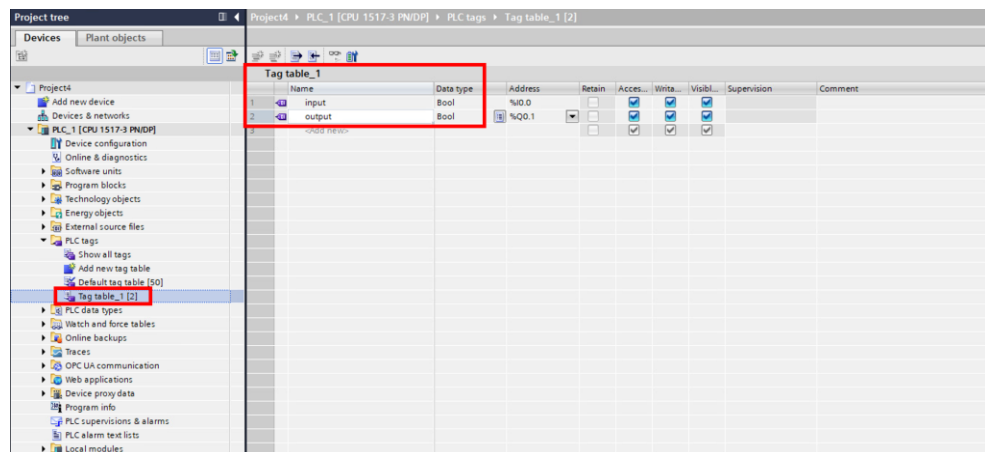
3 Operating the Add-In

3.1 Start Export

1. Open the TIA-Portal project with a PLC device (e.g., CPU 1511-1 PN)
2. Add a new tag table under the PLC tags section.

Figure 3-1

3. Insert values on a new added tag table and save the project.

Figure 3-2

4. On the project navigation, use a right-click at the PLC device or at the newly created Tag table and select "Export Tag Table DataSet to Excel" -> "Export to Excel".
5. At the desktop a file with the name "Output.xlsx" has been created. This file contains the related tag table dates.

4 Appendix

4.1 Service and support

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4.2 Change documentation

Table 4-1

Version	Date	Modifications
V1.0	06/2023	Initial Release