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How do you save time when creating the library file for the Plant Automation Accelerator Excel import?

PAA / V1.0.2

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1 Introduction

This FAQ response includes an Excel generator for the automatic generation of library files for the Plant Automation Accelerator (PAA) Excel Import.

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- Query
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- Export example
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Function of the Excel generator

The Plant Automation Accelerator provides a standard query to list all the existing signals of the Control Module Types (CMTs).
The user has to enter this signal data manually into an Excel table. Here, a special structuring of the Excel table is required.
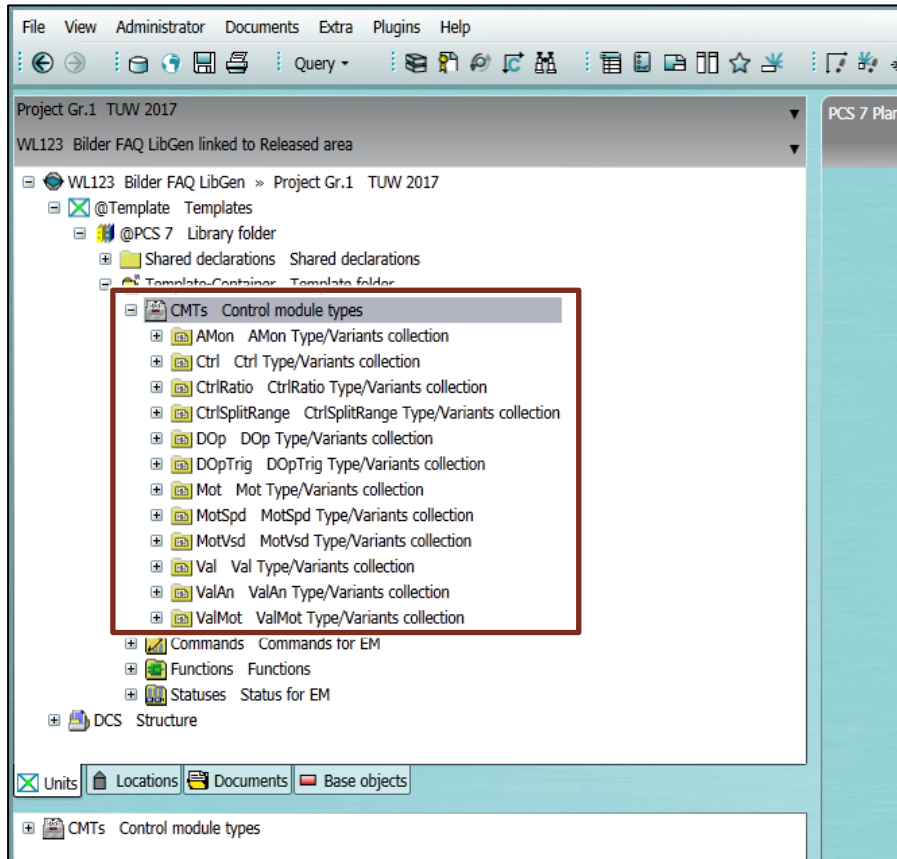
Through the two queries of this FAQ response you can choose to export all the signals or all the parameters and signals. The export is converted automatically into the required structure by the Excel generator.

Advantages

- Time saving through automatic generation
- Minimization of error sources
- Parameters can be included in the automatic generation
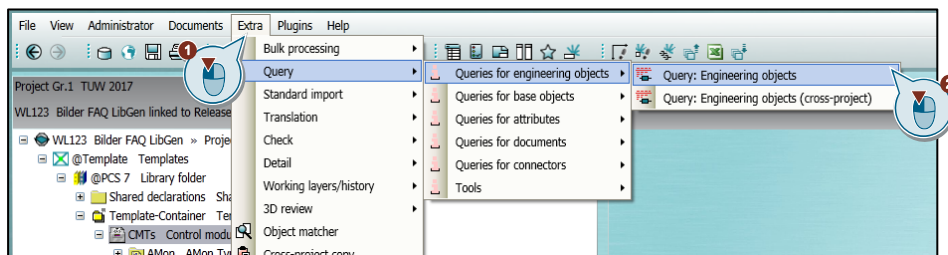- Prepared queries with optimized sorting

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2 Export of Signals or Signals and Parameters

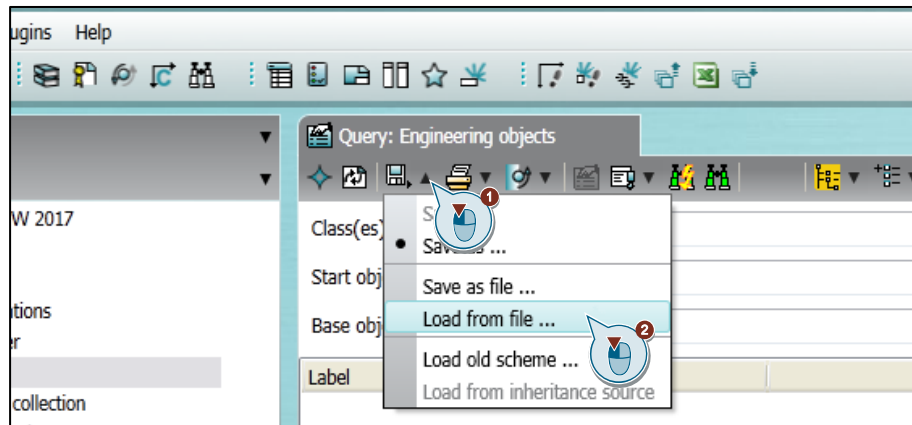You need a CMT library in your PAA project to be able to export signals and parameters.

1. Open an empty query for engineering objects.
   For this you click the "Extra" tab and then select the menu command "Query > Queries for engineering objects > Query: Engineering objects".
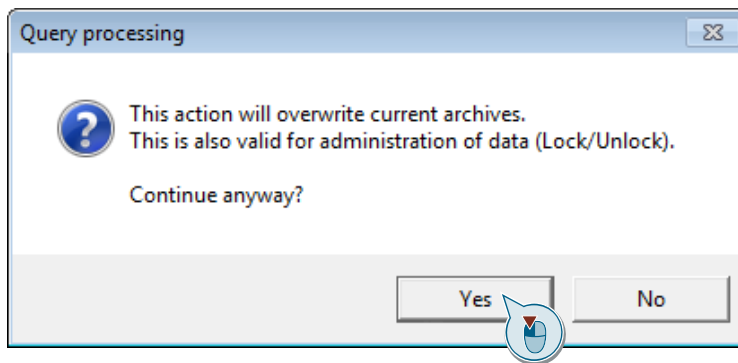

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3. In the task bar of the dialog "Query: Engineering objects" you click the "Save" icon and select the menu command "Load from file…".

4. Confirm the "This action will overwrite…" message with "Yes".

6. The "Open" window opens. Open the path in which the queries provided in this FAQ response are stored.

   Select one of the XML files provided.

- If you are exporting signals only, you select the "QueryCMTsignals.xml" file.

- If you are exporting signals and parameters, you select the "QueryCMTsignalsANDparameter.xml" file (regardless of the library file used).
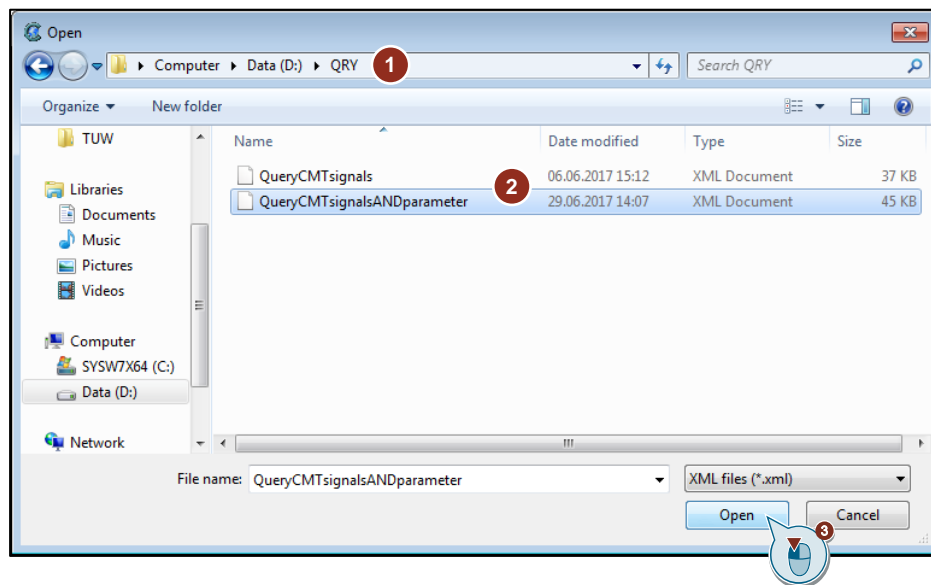
   Click "Open".

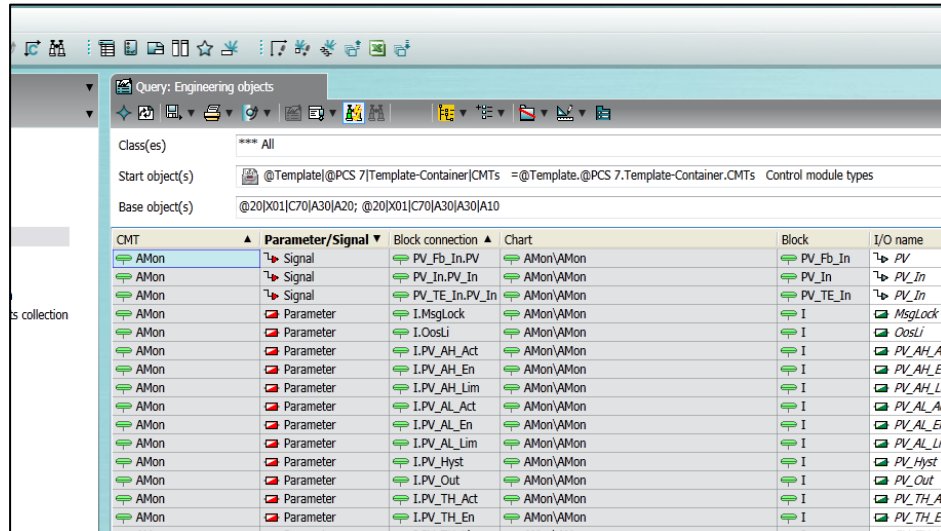| Note	The queries are available for downloading on the entry page of this FAQ response.
	• QueryCMTsignalsV5.xml
	• QueryCMTsignalsANDparameterV5.xml

WARNING	**You must use the two queries provided by this FAQ response!**
	If you use third-party queries or your own queries in the Plant Automation Accelerator, the Excel generator will not work properly. Using third-party queries causes the Excel generator to crash or leads to defective library files. The queries in this FAQ response were configured specially for use with the Excel generator.

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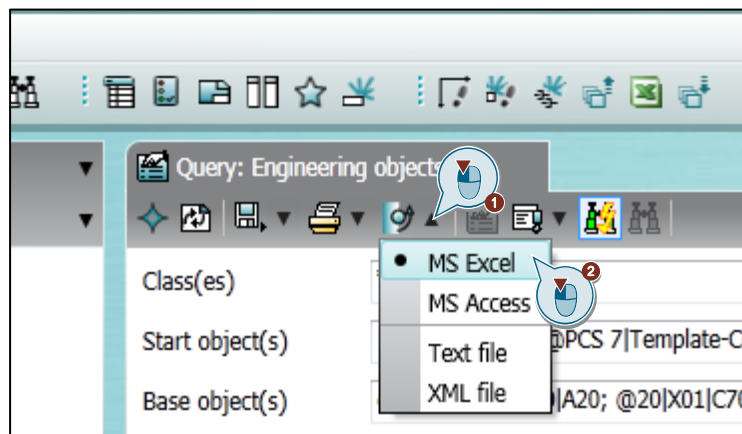Entry ID: 109749306,   V1.0,   08/2017

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8. The query opens and the search for relevant data from the project is launched automatically. This can take a number of minutes depending on the size of the project.

9. Export the query to an Excel file.
   For this, in the task bar you click the "Export Data" icon and then select "MS Excel".

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11. Open the path in which you want to store the file.
    Assign a name and select the file type ".xls" ("Export.xls" in this FAQ response). The stored Excel file can be used with the Excel generator in the following step.
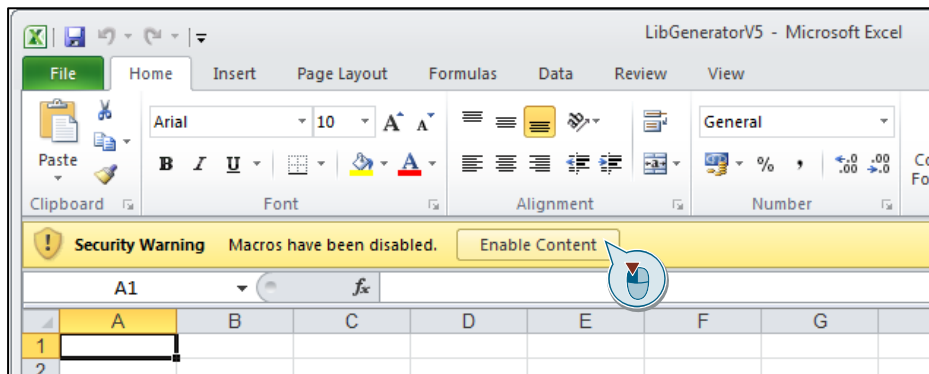
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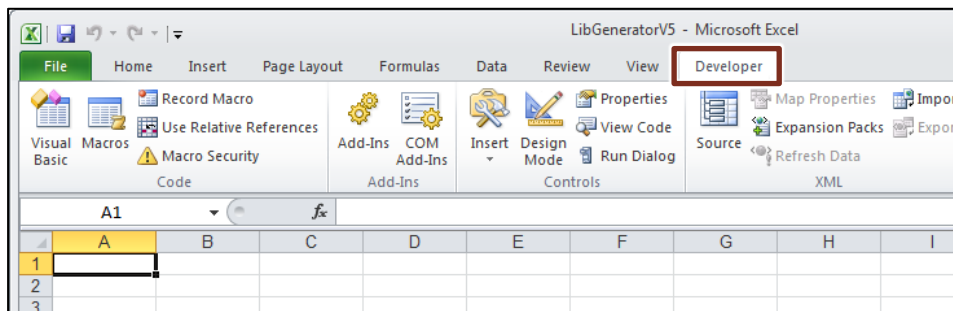
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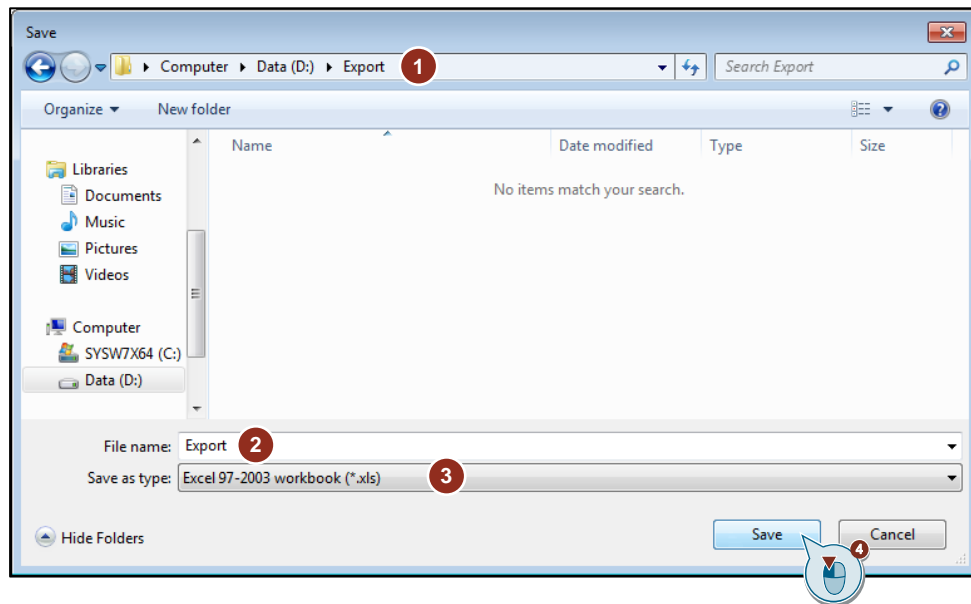
3 Generate the Library File

In this chapter we describe how to create the library file for the PAA Excel Import.

Note	The Excel generator is available for downloading on the entry page of this FAQ response.

1. Open the "LibGenerator.xlms" file.
2. When you open the file you get the security message "Macros have been disabled".
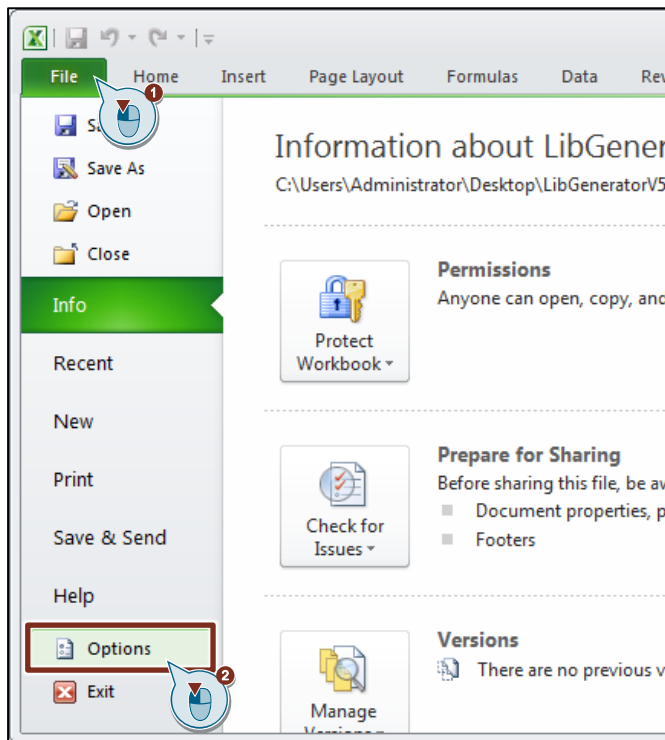   Confirm the message with "Enable Content".

3. A prepared empty worksheet opens for creating the library file.
4. Check whether the developer is enabled.

   - If the "Developer" tab is displayed in the menu bar, proceed with Step 7.

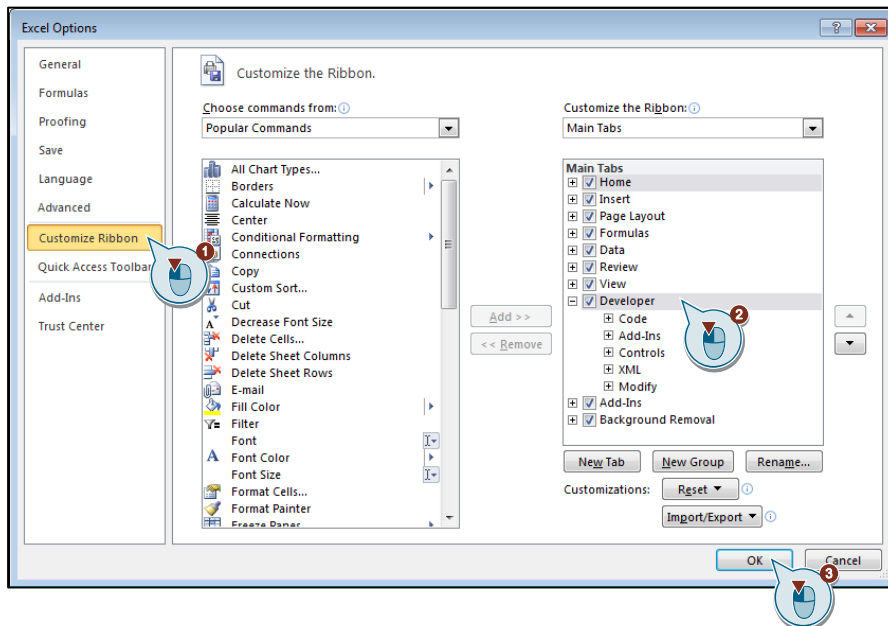   - If the "Developer" tab is not displayed in the menu bar, proceed with Step 5.

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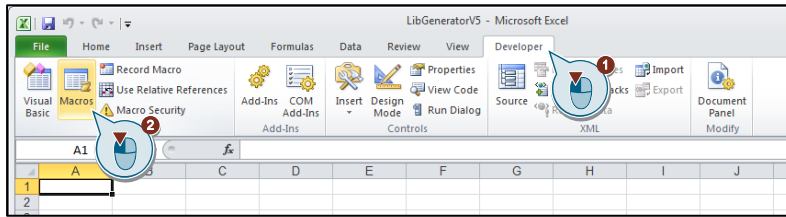5.   Select the menu command "File > Options".

6.   In the menu you click "Customize Ribbon". In the "Main Tabs" window you enable the "Developer" option. Click "OK".
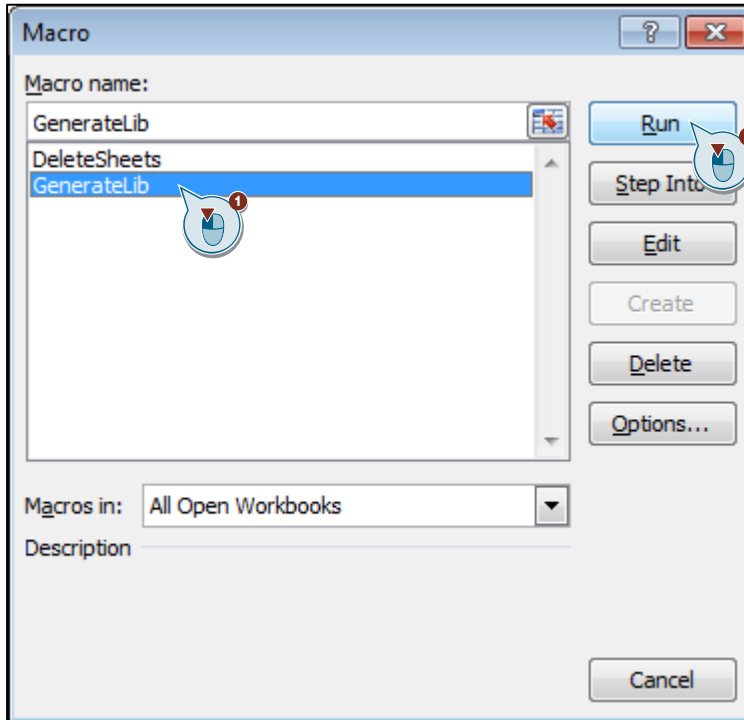

The "Developer" menu is now displayed in the menu bar.

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7. Click the "Developer" tab and then click the "Macros" icon.

8. In the "Macro name" window you click "GenerateLib". Click "Run".

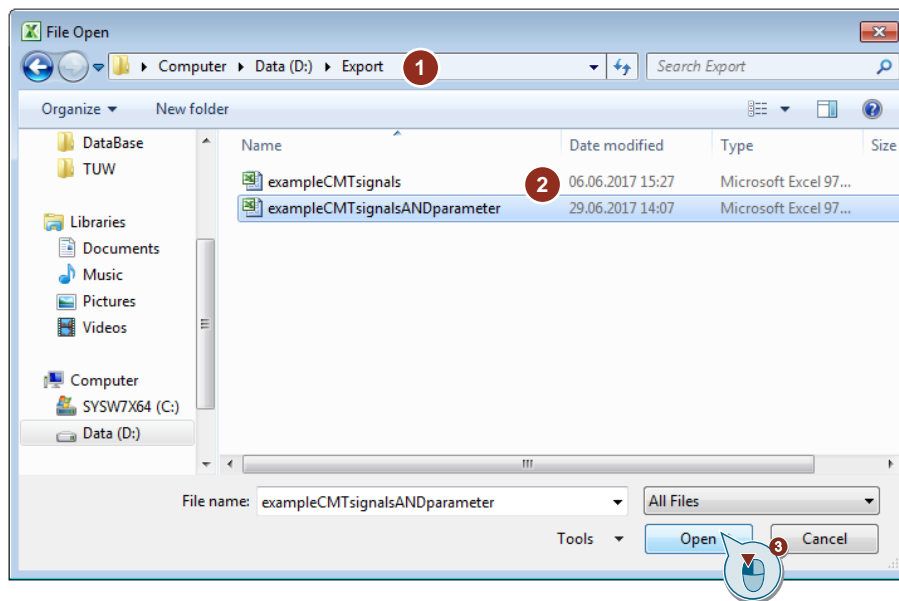10. Select the "Export.xls" file that you created in chapter 2 with the query "Query for CMT Signals". Click "Open".
    Alternatively you can also test the Excel generator with one of the two export examples (see screenshot).

Note	The export examples are available for downloading on the entry page of this FAQ response.
	• exampleCMTsignalsV5.xls
	• exampleCMTsignalsANDparameterV5.xls

11. Generation starts and the result is shown immediately.

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12. Select the menu command "File > Save As".
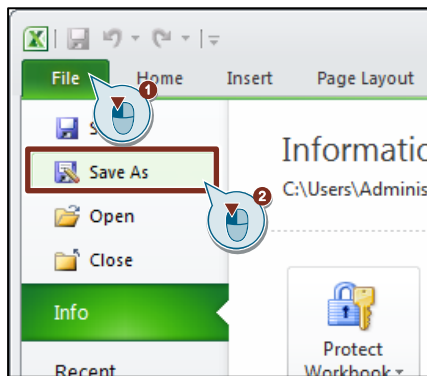
13. Select the path in which you want to store the file.
    Select a file name and the file type ".xls" ("Library.xls" in this FAQ response).
    Click "Save".
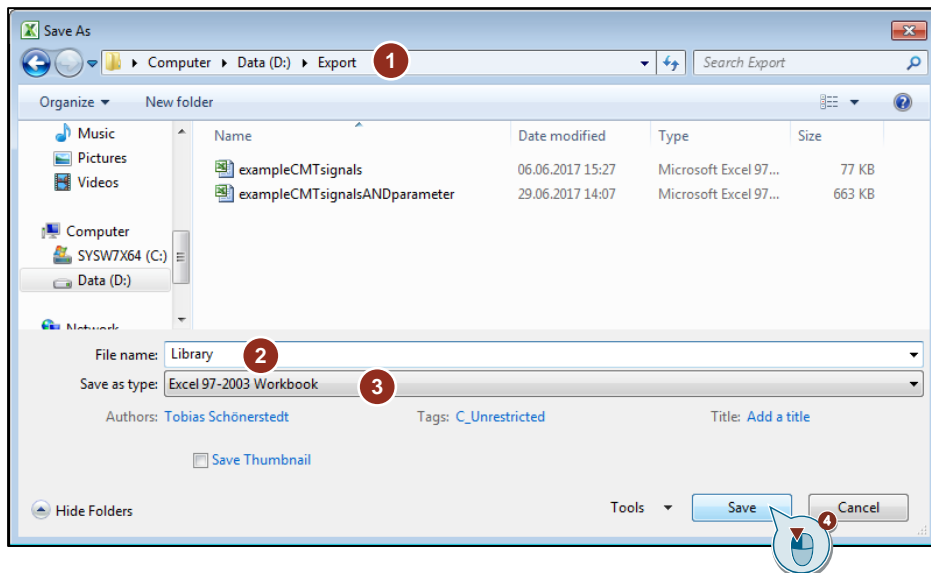
14. Enter the mapping labels you are using in your signal list into the library file.
    Now you can use the signal list and library file for the Excel Import in the PAA.

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Optional: Reset the library file

You can reset the library file to the as-delivered status.

1. Click the "Developer" menu and then click the "Macros" icon.
2. In the "Macro name" window you click "DeleteSheets". Click "Run".

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