optimize!
softing

How to Create Additional uaGate 840D Variables

How to Create Additional Variables for *SINUMERIK 840D sl* NCK OPC UA Address Space of *uaGate 840D*

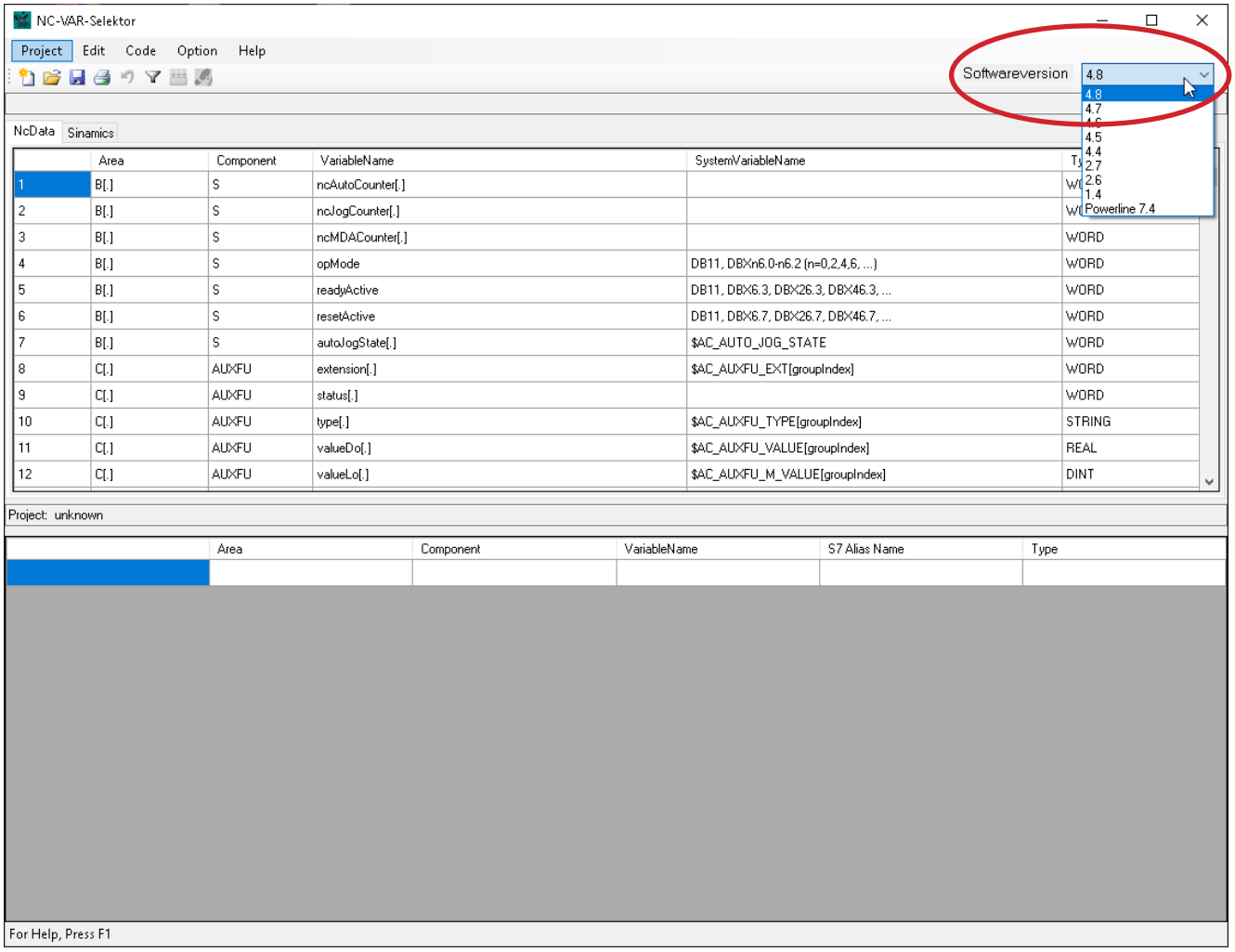
Preliminary Remarks

The ***uaGate 840D*** OPC UA address space can be created/extended by importing ***SINUMERIK 840D sl*** variables using an *AWL* file. This *AWL* file is created using the Siemens *NC-VAR-Selektor* software, which is part of *SINUMERIK Toolbox* (6FC5851-1XC45-4YA8).

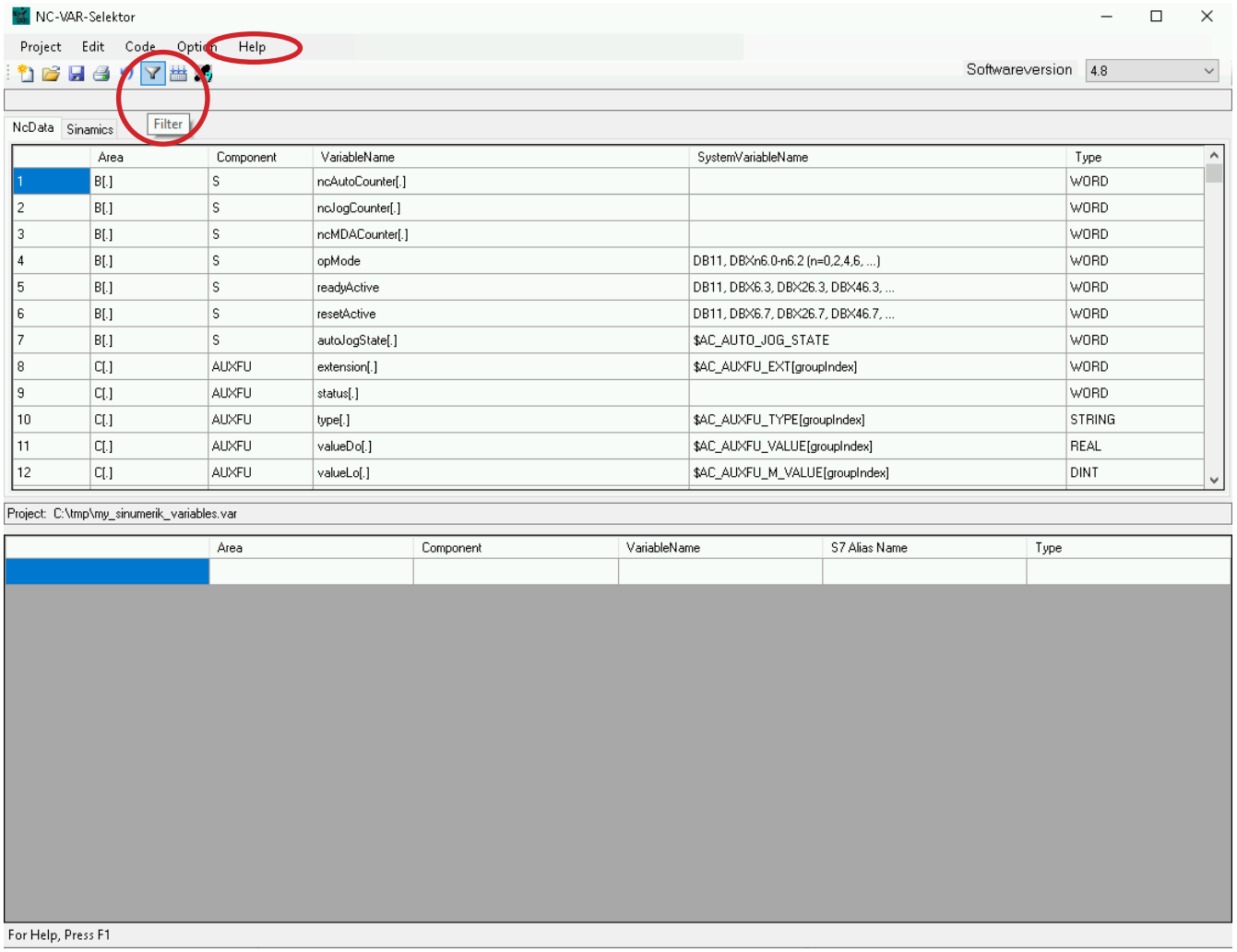
1. Create *AWL* File

In ***NC-VAR-Selektor***:

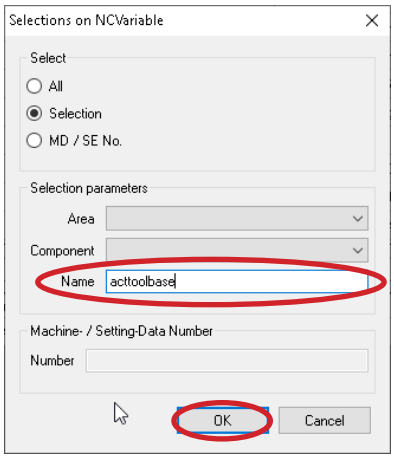
- Create new project by clicking ***New*** button
  Alternatively, open pre-configured *NC-VAR-Selektor* project file from Softing Industrial Data Intelligence website



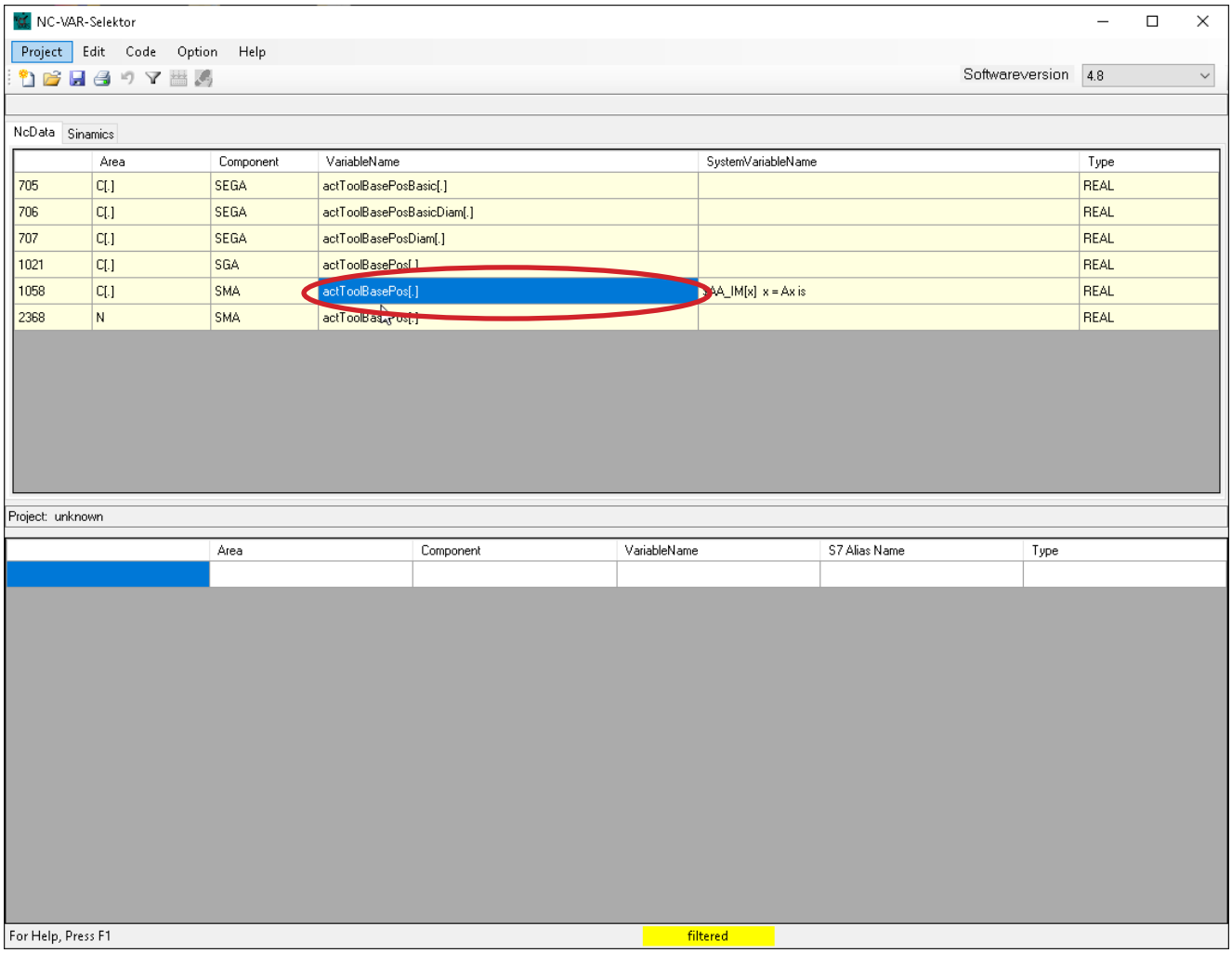
- Select software version of ***SINUMERIK 840D sl*** to be used in ***Softwareversion*** selection list



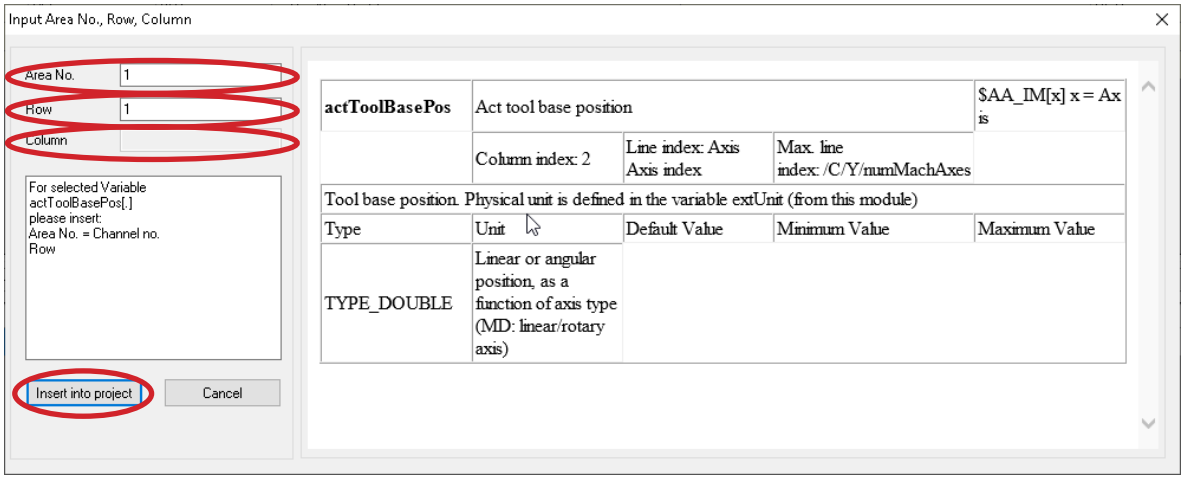
- Click ***Help*** menu for identifying a ***SINUMERIK 840D sl*** variable and its correspondig name
- Press ***Filter*** button for searching for a specific variable, if variable name is known



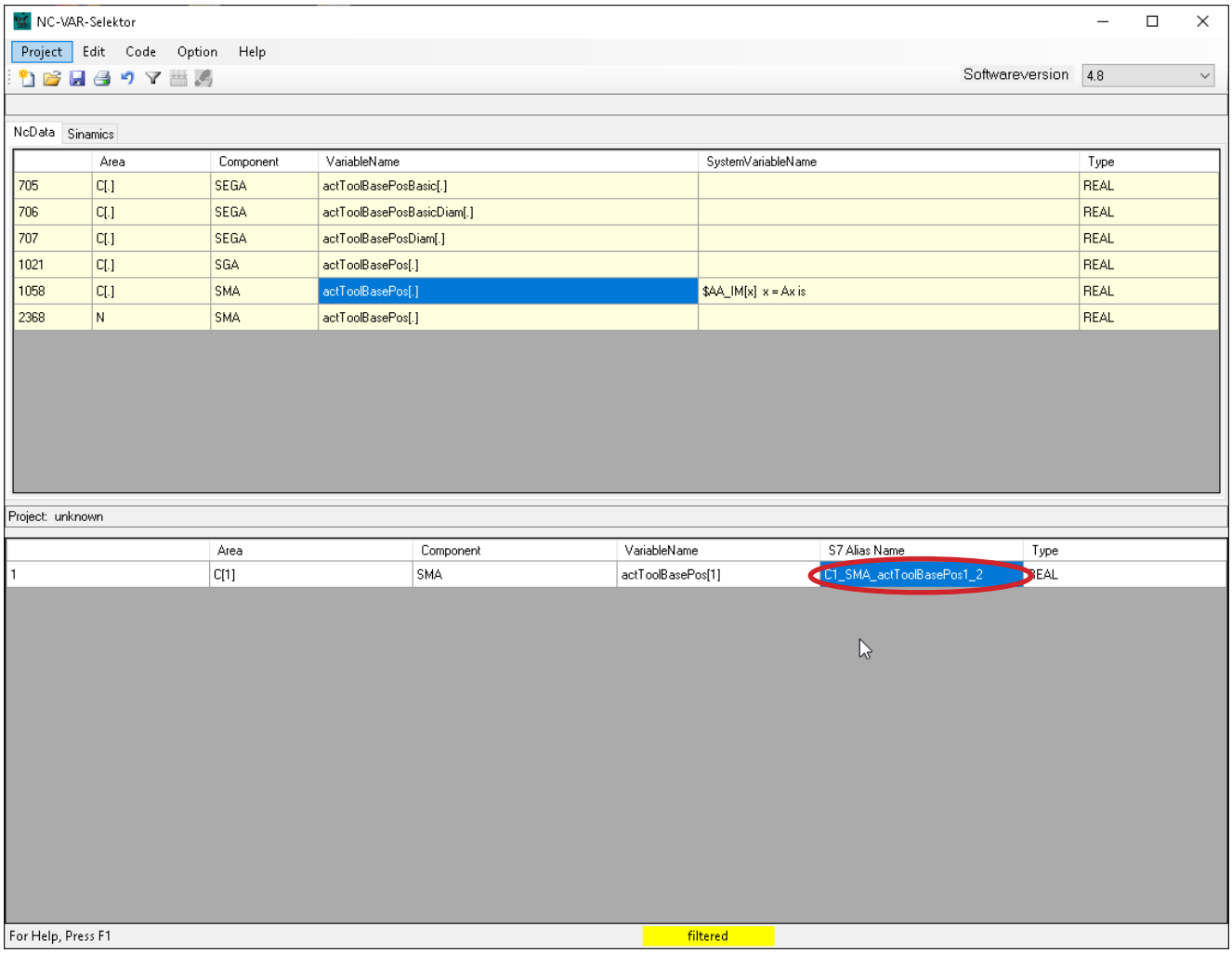
- Enter variable name or part of it in field ***Name***
- Press ***OK*** button



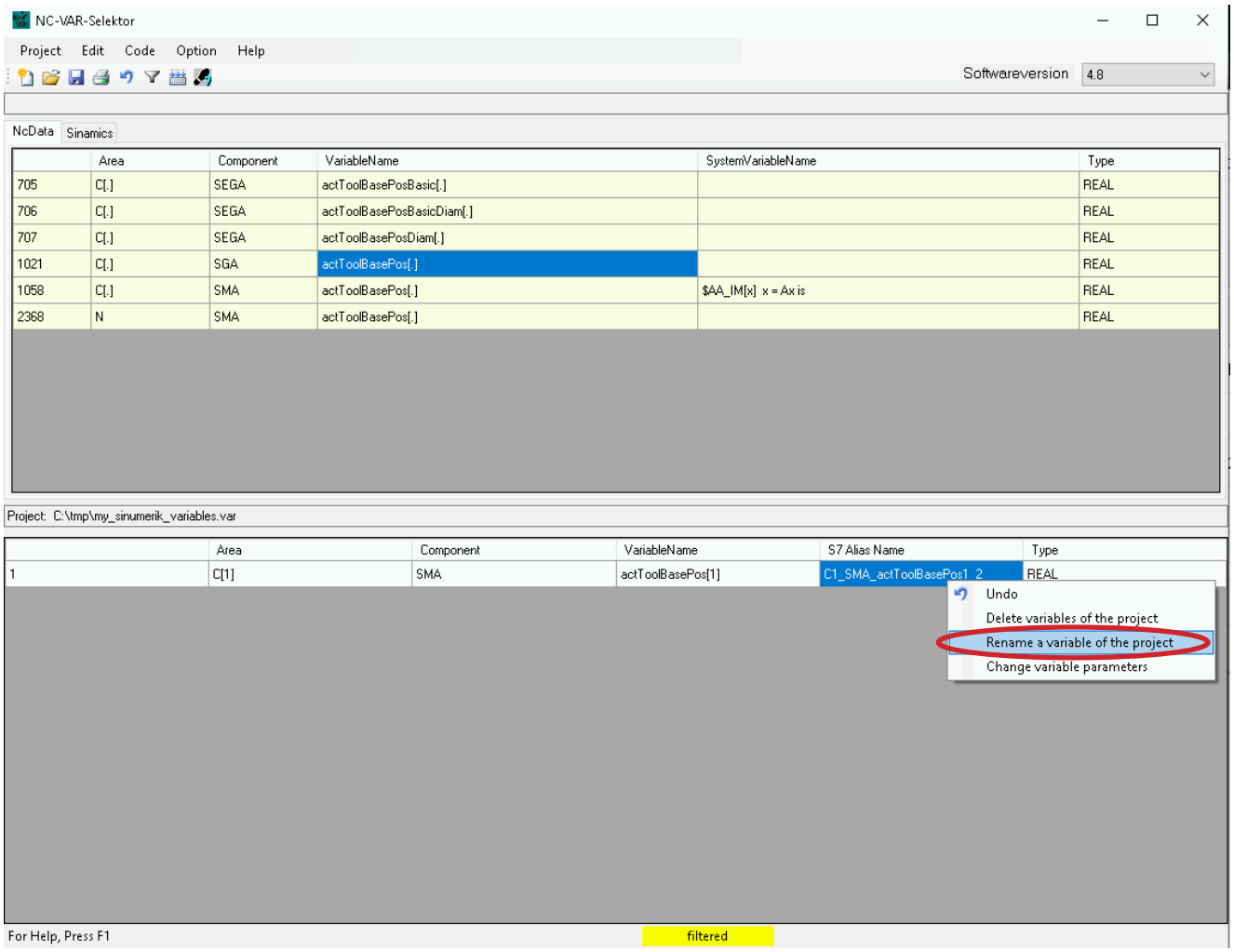
- Double-click name of desired variable in ***filtered*** view to open properties dialog



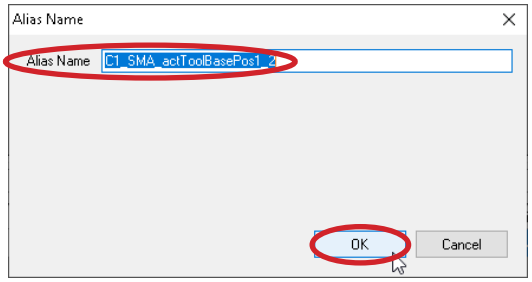
- Enter desired parameters of variable e.g. in fields ***Area No.***, ***Row***, ***Column***, if required
- Press ***Insert into project*** button



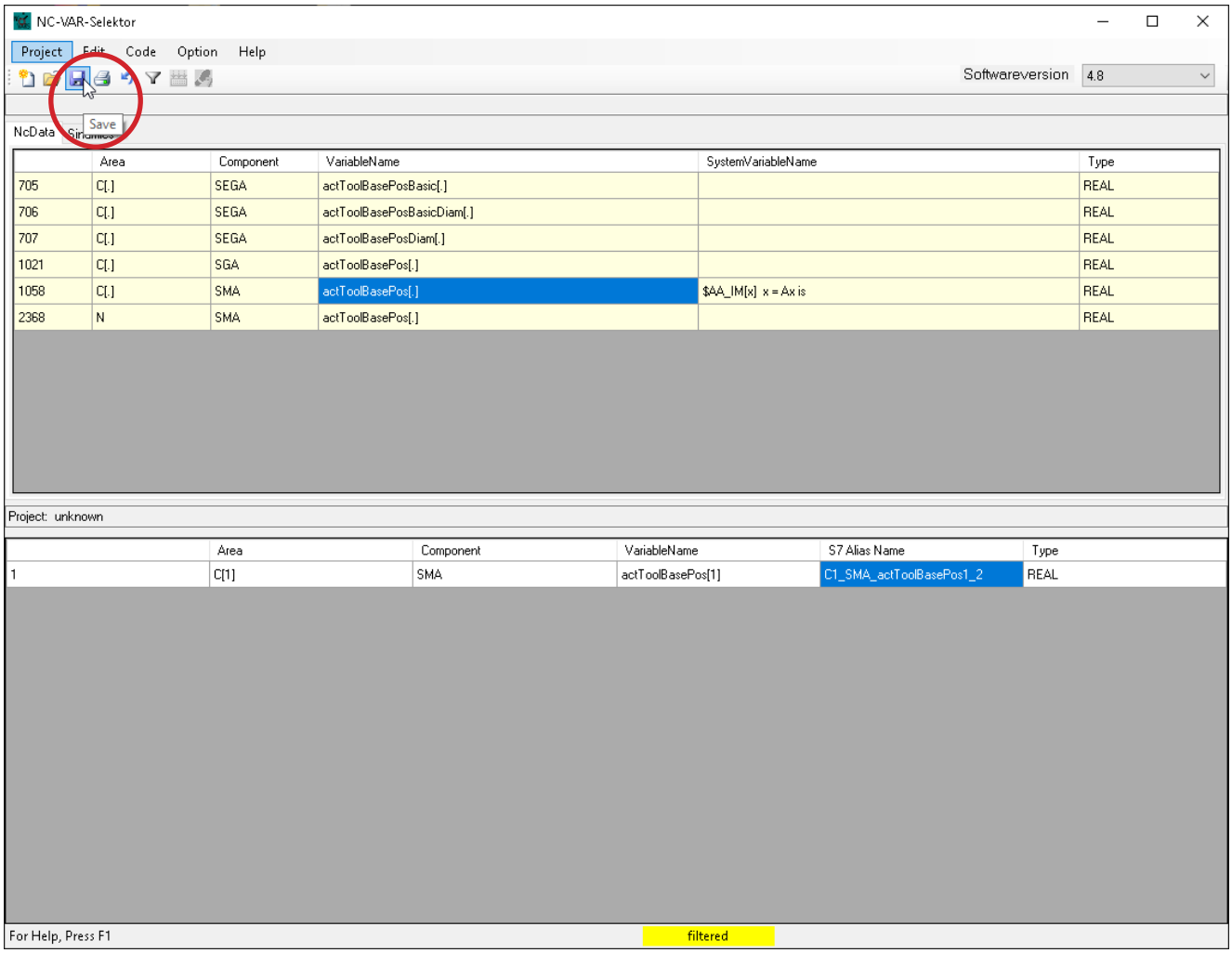
- Variable is added to project and shown in lower part of screen
  Variable name shown in ***S7 Alias Name*** column will be the name to be imported in ***uaGate 840D*** OPC UA address space



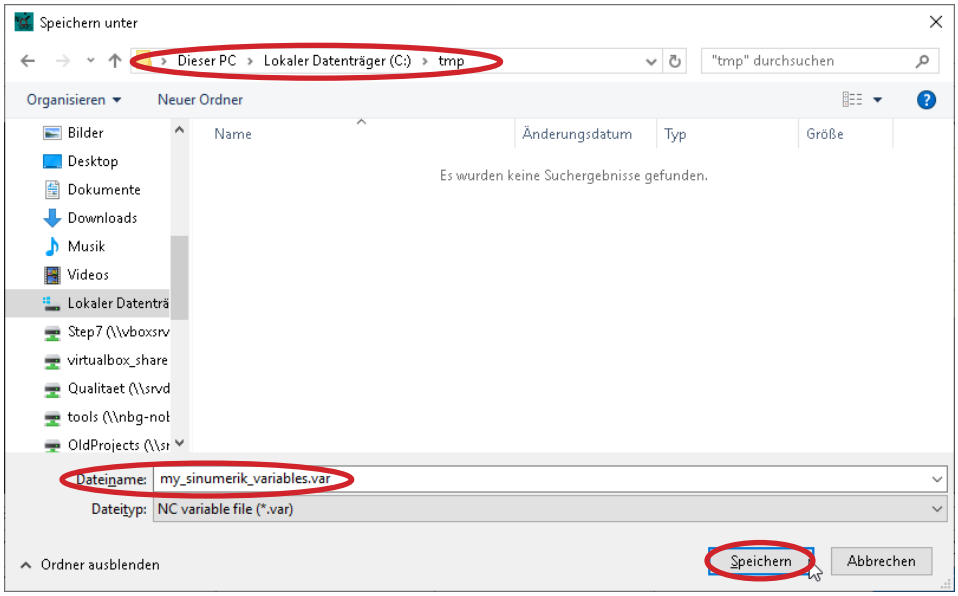
- Right click on variable and select ***Rename a variable of the project*** from context menu to rename a variable



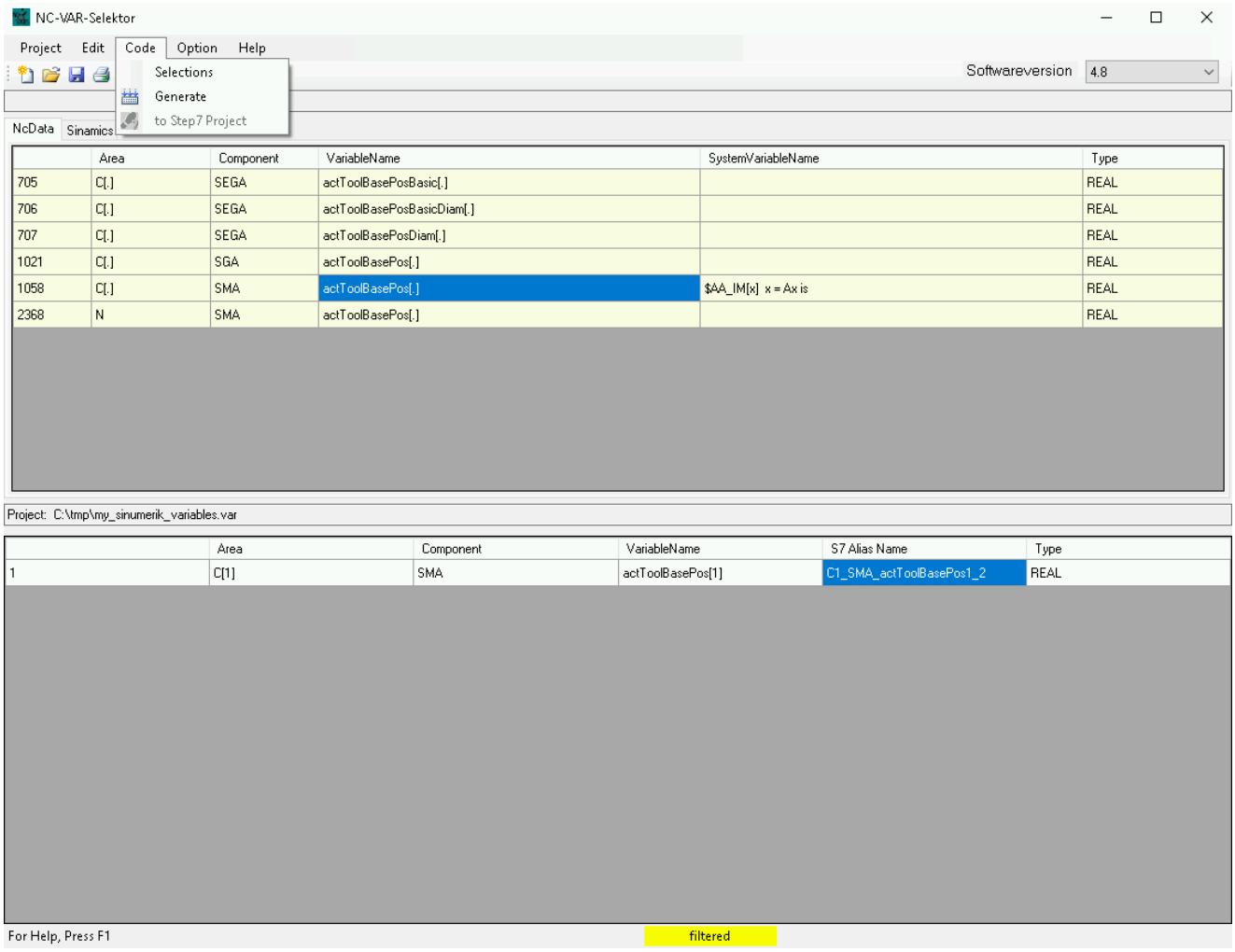
- Modify address name in ***Alias Name*** field as desired
- Press ***OK*** button



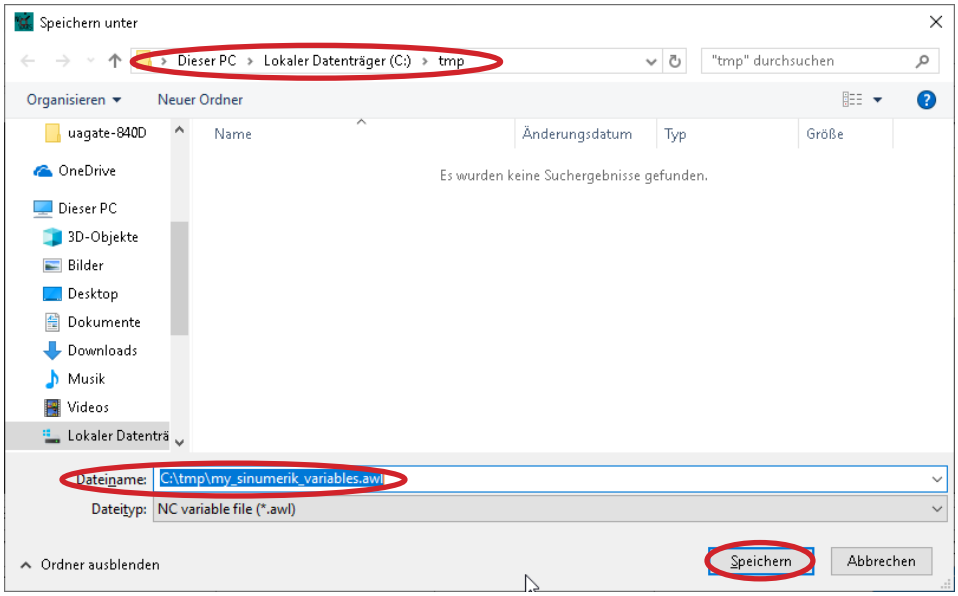
- Press ***Save*** button



- Select desired project path
- Enter desired project name in ***File Name*** field
- Press ***Save*** button



- Click ***Code/Generate*** menu to create *AWL* file for project

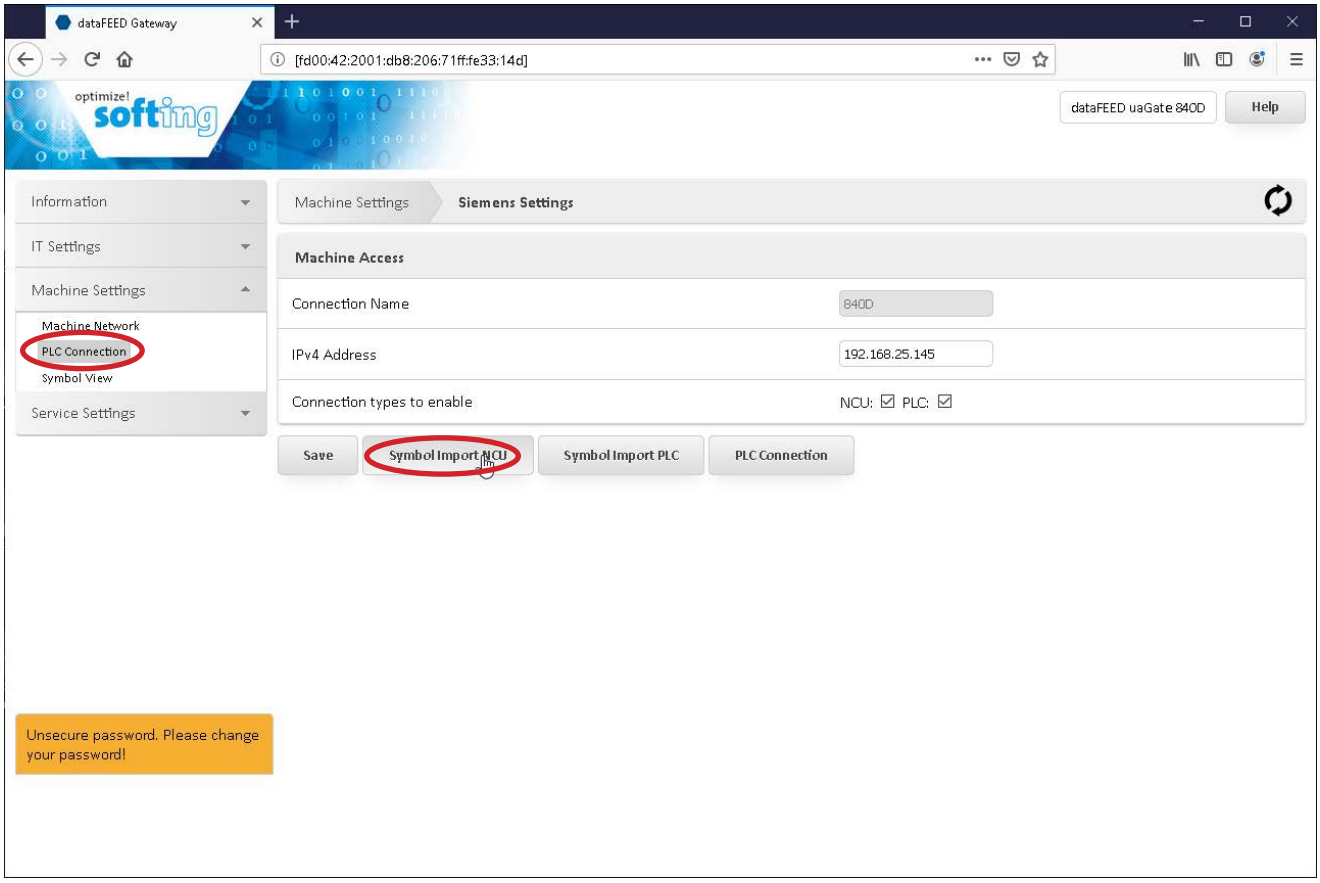


- Select desired path for AWL file
- Enter desired AWL file name in ***File Name*** field
- Press ***Save*** button

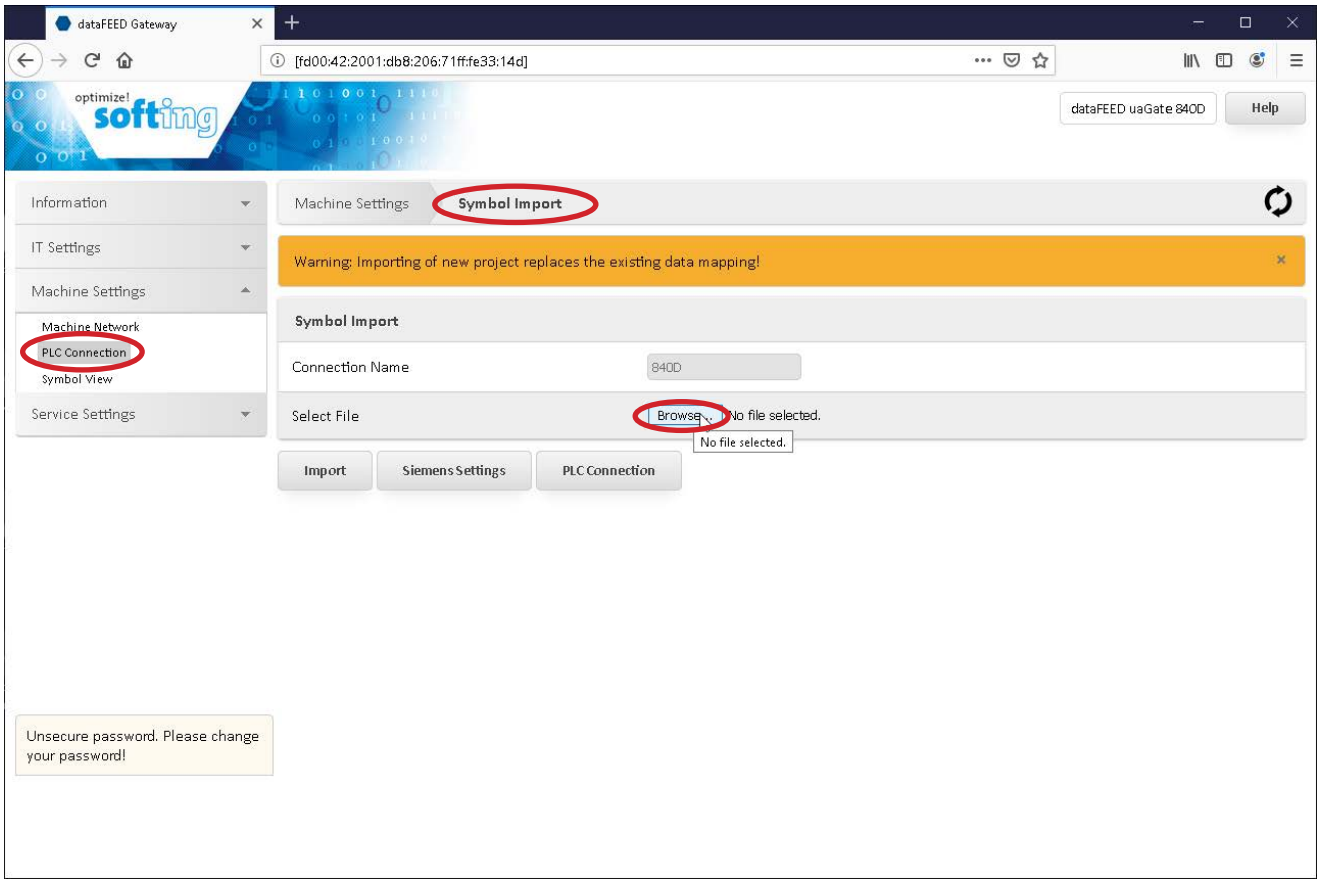
2. Import *AWL* File in *uaGate 840D*

In ***Internet Browser***:

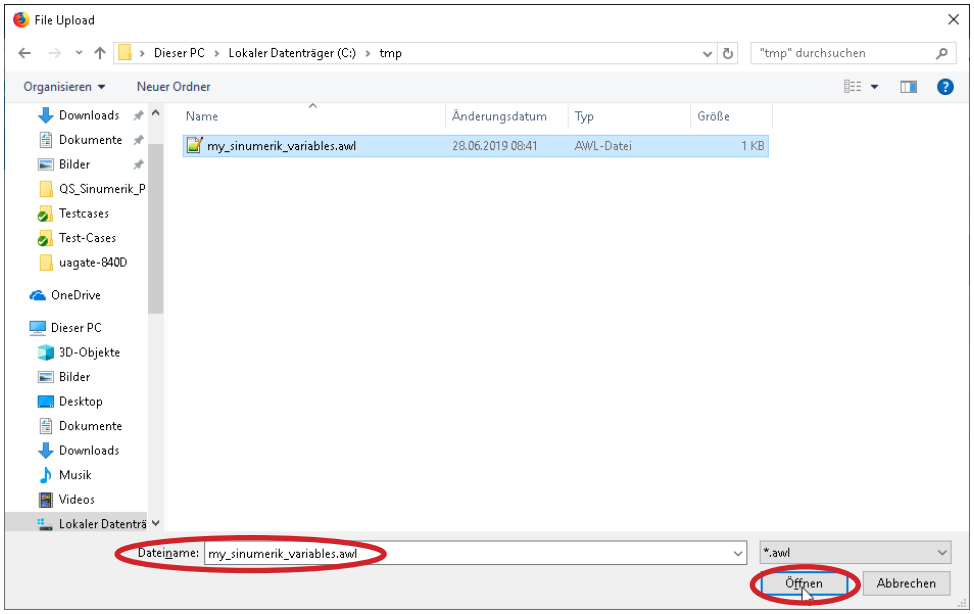
- Connect to ***uaGate 840D*** configuration webpage
- Login as ***Administrator*** or ***ITAdmin***
- Navigate to ***PLC Connection*** page



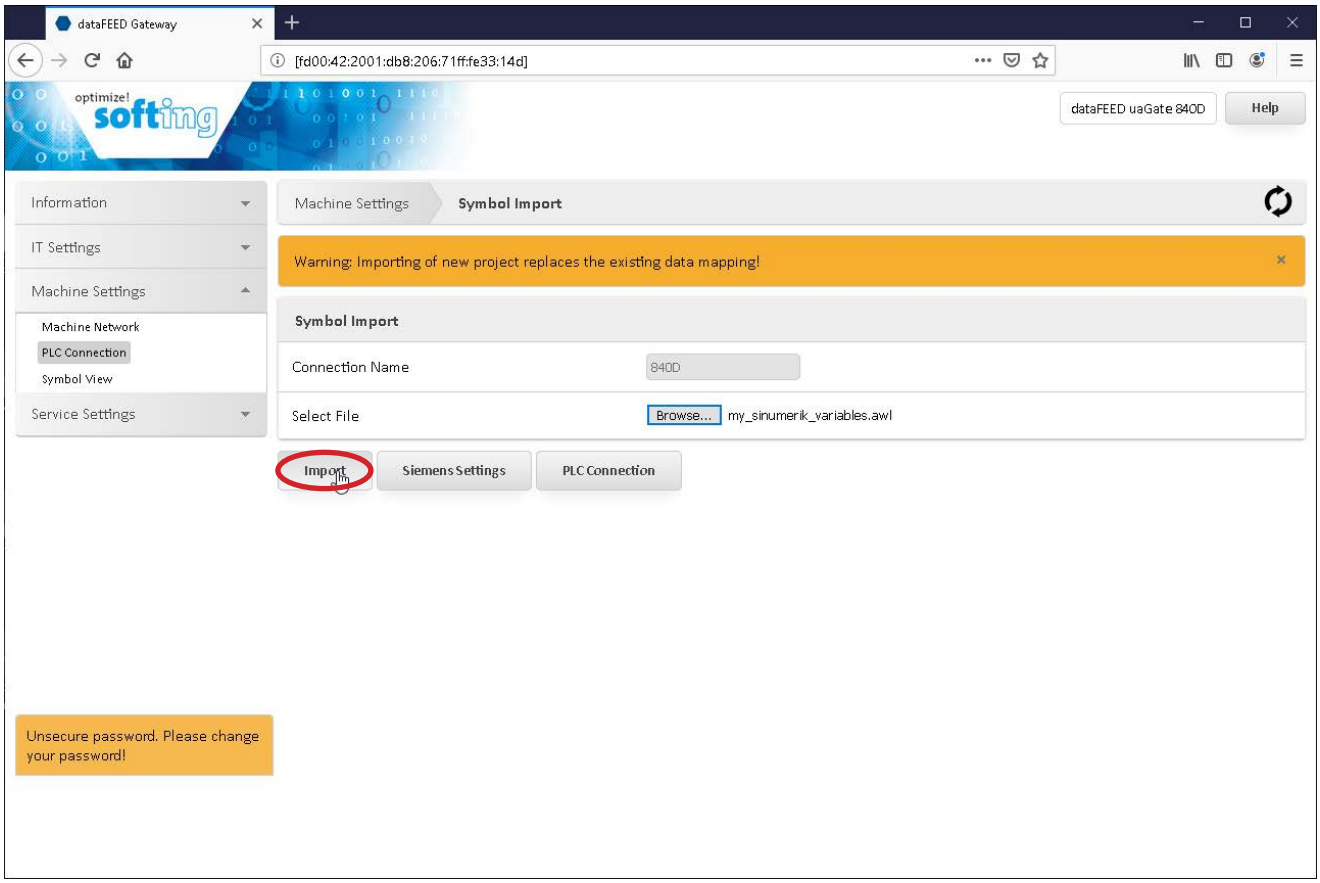
- Press ***Symbol Import NCU*** button



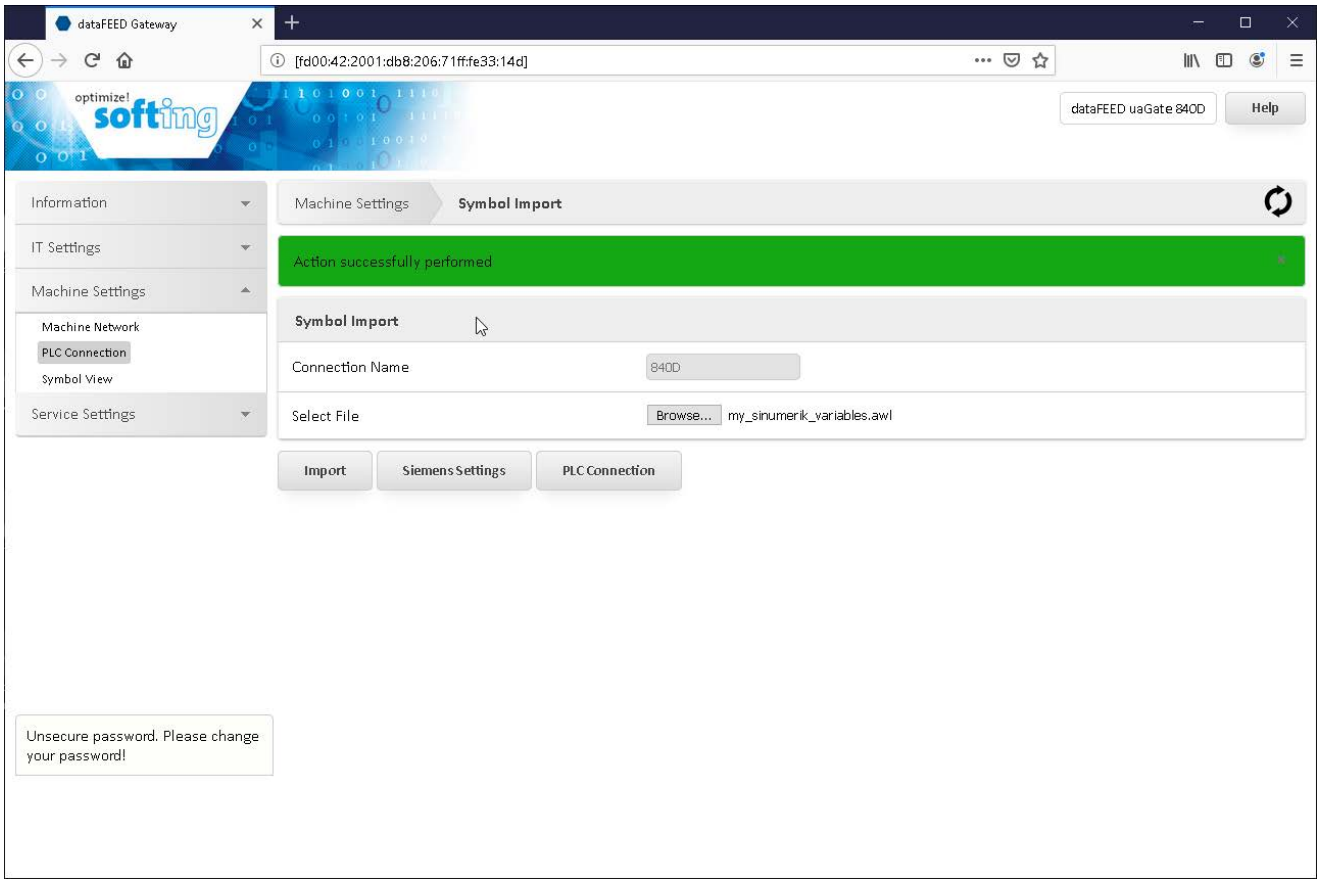
- Press ***Browse*** button



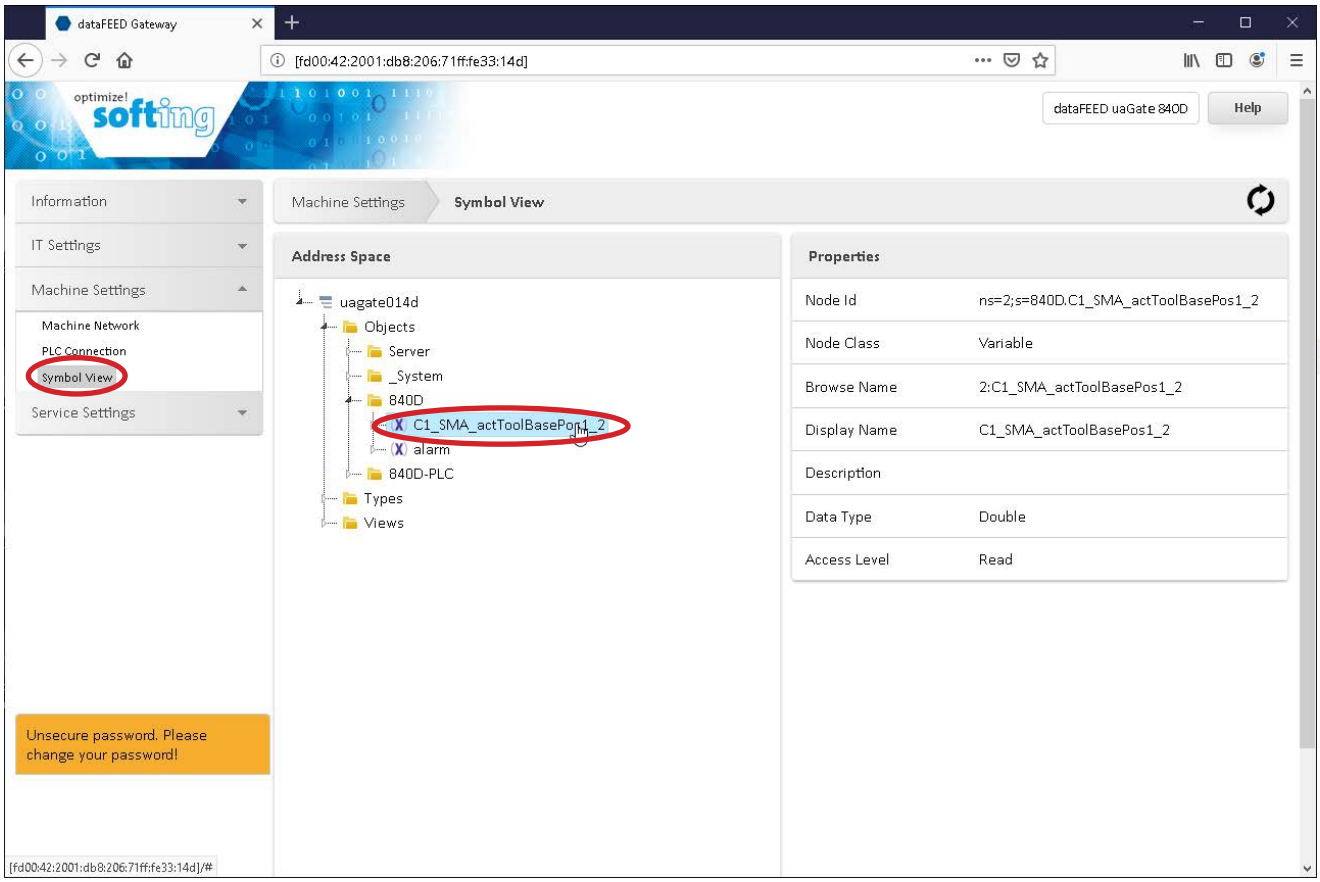
- Enter previously created *AWL* file in ***File Name*** field
- Press ***Open*** button



- Press ***Import*** button
- Wait for AWL file upload and processing to finish



- Navigate to ***Symbol View*** page



- The imported variable has been added to OPC UA address space

optimize!
softing

Softing Industrial Automation GmbH
Richard-Reitzner-Allee 6
85540 Haar / Germany
Phone: +49 89 456 56 -113
Fax: +49 89 456 56 -606
info.idi@softing.com
https://data-intelligence.softing.com

Technical changes reserved © Softing Industrial Automation GmbH, uaGate840D_AdditionalVariables_C_EN_190801_100, August 2019