

# Description of the add-on FindSymbolsAndMacros

for Saia PCD® Supervisor

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#### 1. Document version

Date	Version	From	Description
2020-04-09	ENG01	HaMa	Translation from the German version

## 2. Description

This small but efficient tool essentially does two things:

1) Searches FuPla-generated fbd files for symbol groups (static variables)

2) Searches the \_global.sy5 file for symbol groups to be found under the Editor Tab System symbol The result of the two searches is saved in a file (Device-Name.csv):

1	A	В	с	D
1	PCD.Alarm.Liste.Allgemein	[_SWA_ALARN	1_PCD_V30	]
2	PCD.Trend.HDLogDB	[_HDAINIT]		
3	PCD.Trend.HDLogDB.RamDisk	[_HDAINIT]		
4	BACnet.Device	[_DDC_BAC140	DEV_V2]	
5	PCD.Alarm.Gruppen	[_DDC_INSYST	EM270]	
6	PCD.Intern.Überwachung	[_DDC_INLIBR	ARY270]	
7	PCD.Intern	[_BMOVE2]		
8	PCD.ABS.Betriebsart	[_DDC_INANTI	BLCK270]	
9	PCD.Spannung.Überwachung	[_DDC_ALFUSE	270]	
10	PCD.BMA.Meldung	[_DDC_ALIALA	270]	
11	PCD.AUL.Temp.Fühler	[_DDC_ANSEN	SOR270]	
12	PCD.Status	[_DDC_SYSTAT	E270]	
13	Kalender.Freigabe	[_DDC_SPBIN2	70]	
14	Kalender.Kanal1.Übergeordnet	[_DDC_SPBIN2	70]	

Figure 1: Example of exported symbol groups

This file is found under the device in the PG5 project path.

#### 3. Necessary conditions

The required tool version is  $\ge$  v1.8. It can be placed in any path. However, it would be best to save it directly in the PG5 project path to be parsed.

PG5 V2.3.1xx      Projects      MyProjects			v ℃
Name	Änderungsdatum	Тур	Größe
📙 00 Supervisor Template	14.01.2020 08:46	Dateiordner	
98 All FBoxes	14.01.2020 08:46	Dateiordner	
AddOn	14.01.2020 08:46	Dateiordner	
DE Vorlage	14.01.2020 08:46	Dateiordner	
DE_G01_R01	14.01.2020 15:54	Dateiordner	
B DE_Vorlage	14.01.2020 08:46	Dateiordner	
EN Template	14.01.2020 08:46	Dateiordner	
EN_B01_R01	14.01.2020 08:46	Dateiordner	
EN_Template	14.01.2020 08:46	Dateiordner	
	14.01.2020 08:46	Dateiordner	
FR Modele	14.01.2020 08:46	Dateiordner	
FR_B01_L01	14.01.2020 08:46	Dateiordner	
	14.01.2020 08:46	Dateiordner	
Libs	14.01.2020 08:46	Dateiordner	
NL Sjabloon	14.01.2020 08:46	Dateiordner	
NL_G01_R01	14.01.2020 08:46	Dateiordner	
NL_Sjabloon	14.01.2020 08:46	Dateiordner	
Global	10 12 2012 07:55	Datei	31 K

Figure 2: Saving the tool in a PG5 project

#### 4. Settings in the .ini file:

From version 1.9 onward, an .ini file will also be created after the first successful run. By default this only contains one entry:

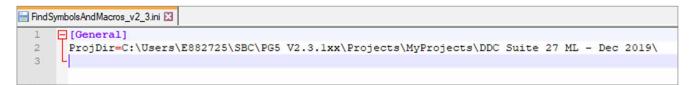


Figure 3: Entries in the ini file after the initial call

It is possible to set an additional parameter "ParseMode" as a default in the tool:

*ParseMode* = [1,2,3]

Mode 1 = Search fbd file only Mode 2 = Search \_global.sy5 only Mode 3 = Search fbd and \_global.sy5 [default]

#### 5. Call with command cell parameter (.bat)

From version 2.3 onward it is possible to call the tool with a batch file and command line parameters:

[FSAM.bat] FindSymbolsAndMacros\_v2\_3.exe "C:\Users\E882725\SBC\PG5 V2.3.1xx\Projects\MyProjects\DDC Suite 27 ML - Dec 2019\DE\_G01\_R01\HKLS.fbd"

The path in the quotation marks ("") indicates the path from which to start.

# 6. Using the tool (without .bat)

Start the tool from the path where it was saved. The "Choose fbd file" dialog box will open

-> 🔹 🛧 🧧 « SBC » PG5 V2.3.1xx » Projects » MyProjects » DDC Suite 27 ML - Dec 2019 🗸 🗸				- Dec 2019"
Organisieren 👻 Neuer Ordner			B	ii 🕶 🔟 🛛
	Name	X		Größe
* Schnellzugriff	Name	Änderungsdatum	Тур	Grope
	00 Supervisor Template	14.01.2020 08:46	Dateiordner	
Honeywell	98 All FBoxes	14.01.2020 08:46	Dateiordner	
<ul> <li>OneDrive - Honeywell</li> </ul>	AddOn	14.01.2020 08:46	Dateiordner	
	DE Vorlage	14.01.2020 08:46	Dateiordner	
Dieser PC	DE_G01_R01	14.01.2020 15:54	Dateiordner	
Netzwerk	DE_Vorlage	14.01.2020 08:46	Dateiordner	
- HELEWER	EN Template	14.01.2020 08:46	Dateiordner	
	EN_B01_R01	14.01.2020 08:46	Dateiordner	
	EN_Template	14.01.2020 08:46	Dateiordner	
		14.01.2020 08:46	Dateiordner	
	FR Modele	14.01.2020 08:46	Dateiordner	
	FR_B01_L01	14.01.2020 08:46	Dateiordner	
	FR_Modele	14.01.2020 08:46	Dateiordner	
	Libs	14.01.2020 08:46	Dateiordner	
	NL Sjabloon	14.01.2020 08:46	Dateiordner	
	NL_G01_R01	14.01.2020 08:46	Dateiordner	
	NL_Sjabloon	14.01.2020 08:46	Dateiordner	
Dateiname:		~	Function block of	diagram file (*.f
			Öffnen	Abbrechen

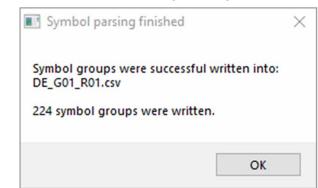
Figure 4: Choose fbd file starting dialog

Navigate to the first device and select an fbd file there:

Choose fbd file:				$\times$
← → · · ↑ 📴 « PG5 V2.3.1xx > Projects > MyPro	ojects > DDC Suite 27 ML - Dec 2019 > DE_G01_R01	ٽ ~	"DE_G01_R01" durchsuchen	٩
Organisieren 👻 Neuer Ordner			== <b>•</b> 🔳	?
📌 Schnellzugriff	Name A		Änderungsdatum 14.01.2020 08:46	Typ
🖬 Honeywell l OneDrive - Honeywell	Doc Downloads		14.01.2020 08:46 14.01.2020 08:46 14.01.2020 08:46	Date
Dieser PC	Html		14.01.2020 08:46 14.01.2020 14:47	Date
🧼 Netzwerk	Obj Sym WEB		14.01.2020 14:47 14.01.2020 14:47 14.01.2020 08:46	Date Date Date
	WebEditor8		14.01.2020 08:46 14.01.2020 14:47	Date FBD
	<			>
Dateiname: HKLS.fbd		~	Function block diagram file (*	.f ~
			Öffnen Abbrech	en

Figure 5: Select an fbd file

Click Open to start reading in the symbols. Depending on the size of the fbd and \_global.sy5 files, this may take a few seconds. A progress bar provides information about the current status of the respective steps.



As soon as the tool has finished its work, the following message will appear:

Figure 6: Tool has successfully completed its task

In the device path, a file with the device name is saved for the associated device in the form Device-Name. csv. This file then contains all symbol groups and macro names that are necessary for import into the Saia PCD® Supervisor. An already existing file will be overwritten.

### 7. Using the tool as an add-on for PG5

The tool can be created as an independent entry in the program files in the PG5 project. For this, call up the add-ons under PG5  $\rightarrow$  tools and make the following entries:

BACnet Configurator DDC Suite	FBDtoSUP					
BDtoSUP	🖂 File Type					
IMI-Editor	Extension	.SVM				
on Configurator on IP Configurator	Description	Creates Objectlist for Supervisor Import				
IB Symbol File Generator	Associated file types					
eb Editor 8	Subdirectory					
	One file per device	No				
	E Editor					
	Has Editor	Yes				
	Editor path	C:\01_Dat\15_Beispielprojekte\51_Scripte\FindSymbols\FindSymbolsAndMacros_v2_4.exe				
	Editor 'New File' command line					
	Editor 'Open File' command line					
	Create empty file on 'New'	Yes				
	Editor supports PG5 Messaging	No				
	Editor window class name					
	Compiler or Code Generator					
	Has Compiler or Code Generator	No				
	Compiler path					
	Compiler command line					
	Compile *after* successful build	No				
	Compiler supports PG5 Messaging	No				
	Compiler window class name					

The .SVM file can now be created under the program files. SVM stands for Supervisor Mapping:

00 Supervisor Template	PCD1.G3600-C15 - S-Bus Stn 0	
98 All FBoxes - PCD3.M6860 - 172.23.1		X
DE		^
E DE_G01_R01 - PCD1.M2220 - 165.19		
- Properties	Untitled1	
-Coline Settings - SOCKET: TCP/IP,		
	Directory:	
	C:\Users\E882725\SBC\PG5 V2.3.1xx\Projects\MyProjects\DDC Suite 27 ML - Dec 2019\DE_G01_F	R01
- Program Files	File Type:	
.\WebEditor8\SWeb.sIn	DDC Suite (*.ddc)	~
BACnet.bnt	Creates Objectist for Supervisor Import (*.SVM) HMI Files (*.hmi)	
BACnet_hdlog.sy5	Lon on FT (*.lft)	
DDC_AlarmGroups.CSV	Lon on IP (*.lip)	
DDC_Alarming.CSV	MIB Symbol File Generator (*.mibfile) Web Editor 8 Project (*.sln)	~
DDC_BACnet.bnt		
DDC_Documentation.htm	Description:	
DDC_Suite_AddOn.ddc		^
HKLS.fup		
🖶 🦳 Listing Files		
Documentation Files		
DE_Vorlage - PCD3.M5560 - 192.168.0.1		
EN Template PC		
EN_B01_R01 - PCD3.M5560 - 192.168.0		
EN_Template - PCD3.M5560 - 192.168.		
FR Modele PCD		
FR_B01_L01 - PCD3.M5560 - 192.168.0.		
Messages		
roject 'DDC Suite 27 ML - Dec 2019' Opened Device 'DE G01 R01 - PCD1.M2220 - 165.195.7		
VEVICE DE_001_101 - PCD1.Wizzzo - 103.193.7.		~
ownload Program Complete: 2020/01/30 10:3		
o: PCD1.M2220, on SOCKET: TCP/IP, 165.195.	Linked/Built Open file now	
CD is in Run		_
Error List	Help OK Cancel	

Figure 8: Call the tool via program files

From now on the tool can also be called from the program files.

### 8. Special features

- The document was produced for version v2.3 of the tool
- Windows 10 Enterprise, 64 Bit, Version 1803

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2020-04-09 | Technical data and information subject to change.