COMPONENT WIZARD



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PREFACE

This booklet shows you how to use the Component Wizard to create components in the PCSCHEMATIC database. The Component Wizard is part of Automation from version 16 and has been improved continuously.

The Wizard can be used for different functions, among them

- Create a totally new component
- Create a new component as a copy of an existing one
- Edit an existing component
- Edit a list of existing components
- Multi-create components by editing an Excel-file, which can later be imported into the database.

All functions are described in this booklet.

A few definitions ...

It is compulsory to connect a database if you want to use the wizard.

COMPONENTS are found in the database and they must have a unique number/id, which in our database is the EANNUMBER (the EANNUMBER is a barcode number, that identifies a component uniquely).

In our database setting we have connected the EANNUMBER from the database with the Article number in the Automation program, and we have connected the TYPE from the database with the Type in the Automation program.

You can see our default setting in page 41 (which also shows a few extras).

COMPONENTS consist of one or more diagram SYMBOLS – and a lot more information. (Some of) this information is tied together when using this wizard.

REMEMBER that ...

If you create components for your database, we recommend that you rename the default database or that you make a copy of it, which you give another name. In that way you can control the database's name and you do not risk having it replaced as part of a program update.

The Component Wizard uses *your* database settings. In page 41 you can see the default database settings – with a few extras. If your Component Wizard looks differently it is because your settings are different.

Books in the series about Automation: Quick start Motor control Component Wizard PLC-project Labelling and Marking Electrical Installation Panelbuilder Automation Service

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OPEN THE WIZARD

You can open the wizard by clicking the icon in the top toolbar or you can find it in Functions|Component Database|Component Wizard:



In the top line you can see the name of the attached database and the current table.

In the next line you can see the steps you are going through to create your component.

In the middle of the dialog you can select your options with the wizard.



At the right side you can see a help text for each step.

You can open or close this part of the window by clicking the 🛛 🎯 id

🎱 icon.

At the button of the window you can – in the next tabs – see which main option you selected, i.e. Edit Component or New Component.

You can always close the wizard by clicking the X in the top right corner.

CREATE A NEW NORMAL COMPONENT

When you click the button NEW you enter this dialog:

Article Number and type



You can type any number, if your component does not have an EANNUMBER, but the number must not be used in another component. If that is the case, you will get this warning:



It is possible to select the appropriate Table code or Component group, for your new component

If you press the browse button you get a list of the table codes available in your database.

If you remember the number, you can also type it.

	latabase='PCSDB_UK.MDB' Table='Compone mponent data 3. Choose diagram symbols		5. Other diagram symbols	6. Accessories	7. External	→ □ ×
Artide number (EANNUMBER) Type (TYPE) Table code S000 Component kind	Select TABLECODE Selec		5. Ouler unagram symools	Cancel		Article and and Type You must type a unique article n for the component. This number will become the number that find the component in the database. The name of the database data field that stores the number is in the parenthesis. You can also type in a type name for the component, this does not need I be unique. Table code When you select a table code here, the component is automatically stored with this code, and the wizard will help yot to select the correct symbols for
Normal V	 Installation cables, mains current (3300) Ifexible cables (3400) Icovie current cables (3500) Cable ducts and strips (5600) Stade ducts and strips (3600) Hered equipment (3700) Attachment equipment (3800) Suspended fixtures (4000) Suspended fixtures (4000) Icalie and standard lamps (4400) Spotlights for indoor use (4500) Fiburnes (4700) Orbit righting (4800) Solver (4700) Other lighting (4800) Fiburnes (4700) Ifiliament Lingus (5000) Ifiliament Lingus (5000) Ifiliament Lingus (5000) 	both ends (4600)	~	Lance		it. Component kind There are various component kinds, and each one has its own method for data entry. Select the right one to get the right help from the Component Wizard.
Previous	Mode	= New			Next	

Component kind

When you start creating a new component you also select the component kind.	Component kind Normal Xamper Link Cable Wiree Wiretay PLC			to select the correct symbols for it. Component kind There are various component kinds, and each one has its own method for data entry. Select the right one to get the right help from the Component Wizard.
Depending on the selected component kind, the Component Wizard will use				
different dialogs in	Previous	Mode = New	Next	
the next tabs.				

In this first section, you will see the basics of how to create components. In later sections you will see examples of special kinds.

Select diagram symbols

In this window you start by selecting the reference ID for the component, it is optional but absolutely recommended.

Component Wizard // Database='PCSDB_UK.MDB' Table='Components' Article number='1234'

 Start creating 2. Basic component data 3. Choose diagram symbols 4. Mechanical symbol 5. Other diagram symbols 6. Accessories 7. External files 8. Other fields 9. Finish
Ref ID:
P = Show signals or information
P = Show signals or information
Q = Open, obse, vary flow of energy
R = Restrict flow or motion
S = Manual input
T = Convert, transform
U = Support
V = Process material or product
W = Guide
V = Show signals or information
V = Show signals or

The letter code is based on ISO 81346-2.

And then you select the electrical symbols for the component. This can be done in two different ways, both of which can be seen below.

Lookup symbols from the component database

The default setting of the wizard is that it looks up symbols in the component database.

It is an easy way to find the correct symbols, as you almost always use the same symbols for the

Lookup symbol fre	om database			code, when the Lookup symbol from database is active. If it is inactive, you will have to select
Add symbol	Delete Rep	olace Copy	Add alternative	your own symbols in the symbol menu. You can change symbol
Symbol subname		Symboltype	~	type, connection names and state for each symbol.
State		~		You can delete a symbol, replace it with another one, copy it, and drag it to a new position.
				If a function can be illustrated in another way – as an alternative

same kind of components, ie components with the same tablecode use the same symbols.

When you click the button, you enter this window:

The wizard finds the used symbols in the component group/table code 'Filament lamps. 'Show as combination' is selected

Example 1

If you want to create a component with the same electrical function as one of the shown article numbers, ie 'PCS500004: White lamp with built-in resistor' simply double click to select the lamp symbol.

INUFACTUR View mode	Ok
ABLECODE 5000 = Filament lamps	Cancel
Vhite lamp with built-in resistor (PCS500004, PCSWHLAMP1, PCS)	
unction box with all c-pts (PCS50005, PCSDD5, PCS)	_
PCSMULTI	



click Next to select mechanical and other symbols for the component.

Example 2

If you want to create a component with more electrical symbol, eg a contact, your windows will look

like this:

MANUFACTUR PCS		View n View n		Show as comb	pination
TABLECODE 225	i0 =				Ca
Contactor 3POL 1	INO 1NC type5 (PCS2	2250105, PCSCON05,	PCS)		- ^
	ره <u>ره</u> ره		Ļ		
*		*	**		
07-15-01	H7313-02	07-02-01	07-02-03		
Contactor 3POL 1 * 07-15-01	INO 2NC type5 (PCS2	07-02-01	PCS)	07-02-03	
	1 to a 2 - (DCC225000)	3, PCSMV002A, PCS)			

When you select one of these sets of symbols, you also get it all:

You need to select the refID yourself, but the rest, meaning all symbols with connection names and properties are included.

👫 Component	Wizard // Database='PCSDB_UK.MDB' Table='Components' Article number='5'		– 🗆 ×
1. Start creating	2. Basic component data 3. Choose diagram symbols 4. Mechanical symbol 5. Other diagram symbols 6.	Accessories 7. Ext	ernal files 8. Other fields 9. Finis
Ref ID:	View of standard Ref ID:	¥	In this tab you select the symbol that represents the component the electrical connection diagrams. You have the followin options on the tab:
A1 * A2 07-15-01	13 21 31 * 22 32 07-02-01 07-02-03 07-02-03		RefID Letter codes for component name, they follow the ISO/IEC 81346-2 standard. A selected typed value will overnule a symbol's default value. Add symbol The Component Wizard will suggest symbol(s) from components with the same table
Add symbol	from database Copy Add alternative Delete Replace Copy Add alternative Symboltype		code, when the Lookup symbol from database is active. If it is inactive, you will have to select your own symbols in the symbo meru. You can change symbol type, connection names and state for each symbol. You can delete a symbol. replace

Find symbols in the symbol menu

If you don't have a component of the same kind from which you can copy the electrical symbols, you can find the symbols in your symbol menu.

Deselect this setting and click the Choose symbol button.



Now you enter the symbol menu – and if you are about to create a lamp as in this

example – you go to the 60617 folder to find a lamp symbol. Here, the symbol for lamp with resistor.

Symbol Menu [C:\PCSELCAD\Beta19_UK\PCSELCAD\SYMBOL\60617_2015\]							
🖪 📰 🕏 🔜 👌		23 C	🚯 т 🔛 📖				
MISC_2015 60617_2015 PLC346	Title=Lamp with diode a	()	æ	\otimes		^	<u>Q</u> k <u>C</u> ancel
FLOW PNEU BUILD EIB	08-08-03A01.SYM	08-08-03A02.SYM	08-08-03A03.SYM	08-10-01.SYM	08-10-01A01.sym		
EN1861 IBI HEAD MEC	08-10-01A02.sym	08-10-01A03.SYM	08-10-01A05.SYM		08-10-03.SYM		
Alarms Branch eguipment Cables Contacts 1	×	*		$\widehat{+}$			
Contacts 2 Fuses 1 Fuses 2 Fuses 3 Installation Motors 1 Motors 2 Operating devices	08-10-04.SYM	08-10-05.SYM	08-10-06.SYM	08-10-08.SYM	08-10-09.SYM		
Sensors Thermo relays Transformers	08-10-10.SYM	08-10-12.SYM	08-10-13.SYM	08-10A04.SYM	08-10801.SYM		
	08-10804.SYM	08-10C01.SYM	08-10D01.SYM	08-10E01.SYM	08-10F01.SYM	•	Optimizing
1075 of 1747 08-10801.SYM	11	of this view might be sl	ow in non-optimized fol				Optimize

When you select the
symbol you can see it in
the window.

Here you can see the lamp from above and the PCSMulti from the MISC-folder.

When you mark a symbol, you can delete, replace or copy this symbol.

You can also select an alternative symbol, which you can read more about alter.

You cannot open the Symbol Generator to create diagram

👫 Component Wizard // Database='PCSD	B_UK.MDB' Table='Compone	nts' Article number='	5'			- 0	×
1. Start creating 2. Basic component data 3	. Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories	7. Externa	l files 8. Other fields	9. Finish
Ref ID: View of standard Ref ID: Chosen symbols:				~	0	In this tab you select the that represents the com the electrical connection diagrams. You have the options on the tab:	ponent ir
1 1 3 5 2 08-10601 2 5 1 1 1 2 5 1 1 1 1 2 5 1 1 1 1 1 1						RefID Letter codes for compon name, they follow the IS 81346-2 standard. A sel typed value will overrule symbol's default value. Add symbol The Component Wizard suggest symbol(s) from components with the san	iO/IEC ected or a will me table
Lookup symbol from database Add symbol Delete Replac	ce Copy A	Add alternative				code, when the Lookup from database is active. inactive, you will have to your own symbols in the menu. You can change s	If it is select symbol ymbol
Symbol subname State None :	Symboltype Normal	~				type, connection names state for each symbol. You can delete a symbol it with another one, cop drag it to a new position	, replace y it, and
Connection(s) on: C:\PCSELCAD\Beta19_UK\PC	SELCAD \SYMBOL \MISC_2015 \PC	Smulti.SYM				If a function can be illust another way – as an alte	trated in ernative
Name	Function		Pin enabled			you can create alternation	
1			v			replaced with a special s and that you open anoth	ymbol,
2			v			window which shows you	u each
3			v			alternative. An alternation one or more symbols.	ve can be
4			v				
5			v				
6			v				
Previous	Mode	= New			Next		

symbols directly from the Component Wizard.

Symbol settings

You have the following options when you selected the symbol, depending on the actual symbol(s).

Generally, you have the same options for each symbol as you have when you design the symbol:

- You can name the symbol with a subname: if you are creating a switch with an indicating lamp, the refID of the component is S (the primary function of the component), the switch symbol gets the subname S and the lamp symbol get the subname P.
- If you selected a symbol with symbol states, you can select a specific state for the current component
- You can change symbol type. If you select a type with subtypes you get further options
- You can copy the symbol with all its settings.
- In the buttom part of the window you can type the connection names for each symbol.
 Depending on symboltype you will see extra options here as well.

If you type more than the data field size allows, the system automatically creates 'pcs' or 'pin'-files.

Add symbol	Delete	Replace	Сору	Add alte	ernative
Symbol subname	2 S		Symboltype	Normal	~
State	None :	~			
Connection(s) or	n: 1 : Activate with p 2 : Activate, Enga	oush-button LC	AD \SYMBOL \6061	7_2015\08-10B0	1.SYM
Nomo		in the second	Euschion		100000000000000000000000000000000000000

Add symbol	Delete	Replace	Сору	Add altern	native
Symbol subname	S		Symboltype	Open	~
State	None :	~		Normal Relay	
				Open	
Connection(s) on:	C:\PCSELCAD\Be	ta 19_UK\PCSELCA	AD \SYMBOL \606 1	Open Close Switch	
Connection(s) on: Name	C:\PCSELCAD\Be		AD \SYMBOL \606 :	Close Switch Master reference	
	C:\PCSELCAD\Be			l <mark>Close</mark> Switch	

Add symbol	Delete Replace	Сору	Add alternative		
Symbol subname		Symboltype Terr	ninal ·	-	
State	\sim	Symboltype2 Non	e ·	~	
	:\PCSELCAD\Beta19_UK\PCSELC				
Name	Function	Pin en	abled	Main Type	A CONTRACT
X1		v		No status	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
X2				No status Output - Term Input - Term Output - PLC Input - PLC Ext/output - Term/PLC Ext/input - Term/PLC	Î

Alternative symbol selection

For some components, you can select between symbols.

In this example, you see a contactor with an activating coil – selected as shown above – and two sets of contacts, that each are selected as *either* a make (NO), a break (NC) *or* a change-over contact.

You create the alternative symbol selection by placing the first selection, then mark it, and then click the Add Alternative button.

This will replace the symbol with the ALTsymbol and open a new window where you add the three alternatives.

A1

When you pick the component from the database, you will get this result:

This window shows that first you have a coil, then you have two contacts, each with three alternative symbols: a make, a break, or a switch. When you select one, the others are gone.

Here you have a wrong creation of the component: It has *either* two make *or* two break *or* two change-over contacts.

When you pick it in the database, it will look this way: So, shortly, pay attention to each symbol position in the component.





Mechanical symbol

In this tab you can add a mechanical symbol to the component.

Database lookup is also possible when looking for mechanical symbols, and in this way, you can find the symbols that are in use for components in the selected component group.

1. Start creating	2. Basic component data	3. Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories	7. Externa	al files 8. Other fields 9. Fi
Chosen symbols: ☐ Lookup symbol Add symbol		Nace Copy	Generator				In this tab you select the component's symbol for the mechanical drawing – arrangement drawing – which the page that shows the component's position and size the panel. While the this tab: The Component Williard will suggest symbol(s) from components with the same tab code, when the Lookup symbol from database is active. If it is the lookup symbol from database is active. If it is the same symbol look in differ ways. If you don't have a mechanical symbol for the symbol look in differ ways. If you don't have a mechanical symbol for the Symbolgenerator. Please note, that you only get the same symbol for the Symbolgenerator.

Alternatively, you	Symbol Generator [#x40	0mmy70mmn(K)g]					×
can click the Generator button to	 Rectangular Circular 	Width (mm) 40,00	Height (mm) 70,00				
open the Symbol Generator.	Line color	Filled				ĸ	
Remember the RefID / Design	Connections at top			None			
character.	Connections at bott	om		None			
	Connections at left	side		None	Design. d	har	
	Connections at right	t side		None	ĸ	Mech	anical symbol
	Edit Symbol					ОК	Cancel

Note that the symbol generator only saves symbols without connection names, when you use it together with the Component Wizard.

If you want a mechanical symbol with connection terminals – and that is definitelly a recommended – then simply make a mechanical symbol by using the Symbol generator (and Symbol editor) to create a symbol with a name, and select this symbol with the Component Wizard, when you create the component.

Other diagram symbols, e.g. SLD and Insttype

The Single line symbol field is this page. If you have need other types of diagram symbols and you have created data fields for those in your database and made them accessible as seen in page 41, you will can see the data fields in this tab.

You choose the symbols as seen in the previous pages, either by database lookup or by looking up in the symbol menu.

Start creating 2, basic compo	Jinem uata 3. C100	se ulayi ani symbols	T. PICCI GRICAL SYMDOL	5. Other diagram symbols	o. Accessories	7. LXterna	Thes of Outer Helds 9, Finis
INGLELINESYMBOL						۲	Here you select a symbol for the representation of the component
	Add symbol	Delete	Generator				in other diagram types, for instance in single line diagrams
	Lookup symbol	from database					The number of data fields here depends on your own databas settings of Other symbols.
NSTTYPE	Add symbol	Delete	Generator				
	Lookup symbol	from database					

One way of using the other diagram symbols is to dedicate certain data fields to certain kinds of symbols, ie Single line symbols in one data field, communication symbols in another, power supply in a third etc., and then you select the data field on the diagram page. By default, the PCSTYPE is connected to DIA-pages and the MECTYPE is connected to GRP-pages.

It applies for all data fields, that you only see the data fields that are mapped in your installation. See more from page 41.

COMPONENT ACCESSORIES

You can attach accessories to all components. Below you can read about the different types of accessories that are in the program and how they work.

Accessories come in three types.

Fixed accessories

Fixed accessories are in the ACCESSORY data field.

The accessory is only seen in parts and component list. It inherits it name after the component it is attached to.

You can select/deselect fixed accessory from the part/component lists in each list's settings.

Optional mechanical accessories

You find it in the OPT_ACCESSORY data field.

In earlier versions of the program, this kind of accessory was placed using the Support symbol. Optional accessory – where you can select between several possible articles. This might be dividers and end plates for terminal rows.

Optional electrical accessories

You find it in the OPT_ADDON data field.

In earlier version you would place this as individual electrical symbols, eg auxiliary contacts, which were manually named after the main component. In this way, it was shown correctly in various lists and the arrangement drawing.

The new data field makes it possible to maintain info, telling whether an add-on component is valid or not for the main component.

Optional electrical accessory is included in Show available on DIA and GRP-pages.

How to select accessories

The desired accessory must be created as individual components in the database, that means it must have its own EANNUMBER.

For each type of accessory, simply select by clicking the Add button, give it a new count if it is not 1, and click the Remove button, in case you made a wrong selection. Counts can also be change on the project component.

						In this tab you select accessori
Accessor	ies [ACCESSORY]				for the component.
Count	Article	Туре	Description			Accessory Fixed accessory, which means
1	PCS500005	PCSLAMPSOCKET	Socket for PCS-lamps			that it cannot be selected/deselected per component in the project. Fixe accessory is not visible in diagrams or arrangements. The accessory is included in parts- and component lists, when the List settings is made to do so.
				Add	Remove	Mechanical accessory
Mechanic	al Accessory [OP	T ACCESSORY]				A list of selectable accessories, which can be seen in the
Count	Article	Туре	Description			arrangement drawing and in the parts and component lists after
1	PCS217001	PCSXXSK1	Divider for PCSXX1			selection.
1	PCS217002	PCSXXEN1	Endplate for PCSXX1			Electrical accessory
				Add	Remove	accessories, each having their own electrical diagram symbols When selected, the accessorie are also available in the arrangement drawing and included in the parts and component lists.
	Accessory [OPT_					
and the second se	Article	Туре	Description			
1	PCS2250122	PCSCON-AUX02	Aux contacts 1NO 1NC type2			
1	PCS2250122	PCSCON-AUX02	Aux contacts 1NO 1NC type2			
1	PCS2250123	PCSCON-AUX03	Aux contacts 1NO 1NC type3			
				Add	Remove	
Previ					Next	

The picture is an example.

EXTERNAL FILES, E.G. PICTURES, AND DATA SHEETS

In this tab you can attach external files, e.g. pictures or data sheets.

The program will look up in the preferred ALIAS folder for the data field and if you select a file from this folder, the ALIASname is automatically written in the data field. Alternatively, the program writes the full path.

📑 Component V	Wizard // Database='PC	SDB_UK.MDB' Table='Comp	onents' Article numbe	er='1415'			- 🗆 🗙
1. Start creating	2. Basic component data	3. Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories	7. External f	iles 8. Other fields 9. Finish
Picture (PICT) %PIC%\3RB3 Datasheet (C %DOC%\6ES3	3980-0A.jpg			•••		۲	In this tab you assign external files to the component, they can be datasheets, photos or subdrawings. If the selected files are located in a ALIAS-folder, the Component Wizard writes the ALIAS-name instead of the full path.
Subdrawing (SUBDRAWING)		Choose alias		×		
Previous			O PIC ● DOC O SUB	Qk Cancel		Next	
Previous		М	ode = New			Next	

Other fields 2

In this window you see the rest of the mapped data fields.

You can map other or more data fields in Settings|Database settings|Component wizard.

See more about this from page 41.

You can also press the 'All fields' button, after which the complete data record opens.

K Component	Wizard // Database='PC'	SDB_UK.MDB' Table='Comp	onents' Article number	='1415'			- 0	×
		3. Choose diagram symbols			6. Accessories	7. External file:		
MANUFACTUR							In the tab you can typ Information about the c	omponent.
					\sim	f	he tab contains all may ields that you haven't he previous tabs, as w	seen in
SOURCE					~	c)	lata fields that you sel our Database settings	ected in
DESCRIPT								
					\sim			
UKDESCRIPT					~			
REMARKS								
					~			
HEIGHT					~			
APPROVED								
CREATED_BY					~			
					~			
CREATED_DDI	ІМҮҮ				~			
						All fields		
Previous		Mo	ode = New			Next		

Finish

If you exit now, you will be directed back to the first tab of the wizard.

And if you close the wizard and open the component database, the new component is at the top of the list.



First tab - once more

When you are back here you have the same choices as you did the first time.

'Copy of' suggests that you make a copy of the component, you just made.

'Edit' suggests that you edit the component, you just made.

🚺 Component W	izard // Database='PCSD	B_UK.MDB' Table='Compon	ents' Article number=	'1415'					×
1. Start creating	2. Basic component data	3. Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories	7. External	files 8. Other 1	fields 9. F	Finish
New	Create new record					۲	You open or dos section when yo ?-icon in the top New Create a new co	u dick the right corne	er.
Copy of Edit	Make copy of 1415, or anot Edit 1415, or edit another n						scratch, that me have to type th no, description of symbols for diag arrangement dr	eans that ye e Type, Art etc and sele grams and	rou ticle
Edit multiple	Edit multiple records at once	2					Copy Copy an existing that means that	g componer	
Delete	Delete one or more records						copy that resem original one. The component MUS another Article r original one.	bles the e new T have	
Load External							Edit Edit an existing that means that change for insta description or its symbols.	you can	t,
							Edit multiple This function all edit multiple con one operation, i that you can for change the man a group of compo assign the same group of compo	ponents in that means instance ufacturer fi onents or data sheet	for et to
							Delete Select one or mic components that delete from the Load externa Load an Excel-lit	ore t you wish database.	to

First tab - once more - again

If you stop somewhere in the process of creating a component, the wizard will remember what you were doing creating/ editing/ copying – and will suggest that you continue with this.

📑 Component W	'izard // Database='PCSD	B_UK.MDB' Table='Compon	ents'				:	×
1. Start creating	2. Basic component data	3. Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories	7. External f	iles 8. Other fields 9. Fini	ish
New	Create new record						You open or close the Help- section when you click the ?-icon in the top right corner. New Create a new component from	
Copy of	Make copy of an existing re	cord					scratch, that means that you have to type the Type, Article no, description etc and select	2
Edit	Edit an existing record						symbols for diagrams and arrangement drawing.	
Edit multiple	Edit multiple records at once	2					Copy Copy an existing component, that means that you make a	
Delete	Delete one or more records						copy that resembles the original one. The new component MUST have	
Continue	Continue "new" article(EAN	VUMBER) = "1516167"					another Article no than the original one.	
Load External							Edit Edit an existing component, that means that you can change for instance its description or its diagram symbols.	
							Edit multiple This function allows you to edit multiple components in	
							one operation, that means that you can for instance change the manufacturer for a group of components or Delete Select one or more components that you wish to delete from the database. Continue	,
							Will continue work on 'new'	~

COPY OF AN EXISTING COMPONENT

If you choose the Copy-option, you will get this window, where you download the "original" and give it the new name. As the 'copy' and the 'original' component often have type and item numbers that are very alike, the wizard suggests the original's values. Then continue as "New".

You are, however, not allowed to continue "copy of" unless you type a new, nonexistent article

💕 Component Wizard // Database='PCSDB_Uk	(.MDB' Table='Componen	nts' Article number='l	PCS500001'			>
1. Start creating 2. Basic component data 3.	Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories	7. External	
Make copy of this comp. (EANNUMBER)		le number (EANNUMBE	R)		0	Click to choose the component, you wish to make copy of.
PCS500001	123	456				Enter EAN-number you want give to the copy.
Type (TYPE)		(TYPE)				
PCSRDLAMP1	PCS	RDLAMP1				
Table code						
5000 Filament lamps						
Component kind						
Normal 🗸						
Previous	Mode = 0	Conv of			Next	

number. Alternatively, the wizard suggests that you edit instead.

EDIT EXISTING COMPONENT

If you choose this option, you must also fetch the component by clicking the '...' button. Then you continue with the same tabs as "New".

👫 Component	Wizard // Database='PCSD	B_UK.MDB' Table='Compon	ents' Article number='	PCS500001'			- 0) ×
I. Start creating	2. Basic component data	3. Choose diagram symbols	4. Mechanical symbol	5. Other diagram symbols	6. Accessories			
Article number (E	ANNUMBER)					0	Click to choose the component, you wish	to modify.
PCS500001								
Type (TYPE)								
PCSRDLAMP1								
Table code								
5000	Filament lamps							
Component kind								
Normal	~							
Previous		Mode	= Edit			Next		

CREATING OTHER COMPONENTS KINDS

When you create a new component using the Component Wizard, you can choose between different component kinds.

Below you will see examples of different component kinds and how they are created in the database.

Create Jumper link

When you create jumper links in the database, select (and show) how many links it contains and type the distance between each link.

🐻 Component Wizard // D	atabase='PCSDB_UK.MDB' Table='C	omponents' Article number='111'			-		×
1. Start creating	2. Basic component data	3. Choose diagram symbols	4. External files	5. Other f	ields	6. Finis	sh
Ref ID: W Guide Symbol	Number of links 2 V Distance between connections 5	nn V	v		If the jumper conterminals, you h jumper connects have 2 links, etc The distance be connections can correctly selecte the arrangemen project.	ave 1 link; s 3 termina :. tween the be used t ed jumper	als, you to check links on

Create Wire

When you create wires in the database, type its outer diameter (mm or ") and meters per reel/drum. The diameter is used to calculate capacity in wire trays when using the Panelrouter. The length is used to calculate quantities for the parts list.

1. Start creating	2. Basic component data	3. Choose diagram symbols	4. Accessories	5. External files	6.	Other fields	7. Finish
Ref ID: W W = 0 Symbol	Diameter Diameter Meters per reel/drum			~	۲	Type the outer the wire's diam insulation. This makes it p the fill percenta on the project's page.	eter including its ossible to check age of wire trays

Create Wire tray

When you create wire trays in the database, you type height and width (mm or ") and the length of one section. The dimensions are used to calculate capacity when using the Panelrouter, the length is used to calculate quantities for the parts list.



How to draw jumper links, wires, and wire trays

The main reason for creating jumper links, wires and wire trays in the database is that the Panelrouter uses the data to calculate capacity in wire trays.

If you want your drawing to contain a certain wire type, you cannot pick it directly from the database, you need to pick it from the Pick menu:

Add a line with the desired type, width, and color to the pick menu, it could be a blue line for a normal conducting wire or a pink line with jumper status. You assign component data to the line by right-clicking on the line, select Component article data. The select the wires from the database – click DB. You can have several wires on one line in the pick menu.



If you create wire trays in the pick menu, you only select the line type and color, that data in the database – and the page scale – will decide the width on the drawing. You can read more in the manual about adding components to the pick menu.

Create Cable

When you create cables, you must select a cable symbol, either through database lookup or manually in the symbol menu. The Component Wizard only accepts Cable symbols!

You can type diameter (mm or ") and meters per drum. The diameter is used to calculate capacity in wire trays when using the Panelrouter.

After this, you must select the number of conductors and how to mark the conductors – colors, numbers, or free texts. The wizard helps you to automatically fill out the list with colors or numbers.

The help text shows color codes.

📑 Component Wizard // Databas	e='PCSDB_UK.MDB	' Table='Components' Article number=	'111'			- 🗆 ×
Ref ID: W W = Guide	component data	3. Choose diagram symbols	4. Accessories	5. External files	6.	Other fields 7. Finish Add symbol The selected symbol must be of the Cable type. Type in the cable's outer
* O	iameter ; eters per reel/drum .00	. mm ∽				I ype in the cable's outer diameter, that is the diameter ind, insulation. This makes it possible to check the fill percentage of wire trays on the project's arrangement page. Type the number of cable conductors and select whether to identify them by color or number or a free text. The last conductor can be selected freen Vellow. Conductor colors can also be selected free westign cable files.
Cable conductors O Colors Numbers O Texts Last conductor is GNYE Load file Edit file	Conductor color/ 1 2 3 4 GNYE	number				Conductor colors Bix Black Bix: Brown GY: Grey BU: Blue WH: White RD: Red VT: Violet PK: Pink PK: Pink GW: Green YE: Yellow OG: Orange GWTE: Green Yellow BUWH: Blue White WHBU: White Blue
Previous		Mode = New		Nex	ر. دt	

Load file

You can create cables with specific conductor colors by loading an existing file. Cable files are made in Notepad or similar, and they (often) follow a cable standard, they have one conductor color or number per line, and they are saved as *.cbl-files in the database folder.

Edit file

If a selected file is wrong, you can edit it. Beware that other cables might use the same file,

Last conductor is GNYE

When you select this option, the last conductor will be GNYE.

Plugs for cables - Accessory

When you go to the Accessory tab, you can assign Accessories per cable or per meter.

CREATE PLC

The Component Wizard can also create PLCs in the database.

You start by selecting the PLC component kind, after which you enter a special PLC page.

Below you will find examples of various kinds of PLCs, which will show you how to create the different kinds of them in the database.

The first example will take you through all the dialogs, showing you the options, you have.

Example 1: Card with 8 digital inputs and separate supply

Select the number of inputs and outputs

Here you tell about the structure of the PLC.

Definitions

Channels – we have selected the word Channel, which mostly will be synonymous with Address, but sometimes it means plugs or channels.

Addresses – mostly it will be the same number as in Channels, but where you have plugs, single plugs or channels can have more addresses. You select the number of addresses on the next tab.

IO status

Here you choose whether your channels are inputs, outputs, other (e.g. IO-link) or a combination of those.

IO status type

You can create your channels with digital, analog or no status type. The status types can be used as filters, e.g. when you transfer plc addresses in the project.

Variants

An analog input can be connected in different ways, depending on the equipment you connect and the input type you want. Here you type the number of different connection methods, as it influences the IO symbol selection. Variants cannot be combined with input/output combinations in IO status.

Path to PLC-directory

Here you select the directory from which you choose your plc symbols. Default selection is the PLC346 directory.

Start creating

Start by typing the total number of channels, here 8.

Then you type the number of input channels – 8 again. Press the Next button.

This tab is the starting tab when create PLCs. Here you select its overall structure and whether you have fixed or variable functions on each address.

See the examples

of Component Wizard // Database='PCSDB_UK.MDB' Table='0	Components' Article nu	mber='1000'			- 🗆 ×
1. Start creating 2. Basic component data 3. PLC 4. PLC	5. Mechanical symbol	6. Other diagram symbols	7. Accessories	8. External files	9. Other fields 10. Finish
Total number of channels B IO Status IO Status Type B Input Bigital	Variants	+			Here you see the overall structure of the PLC. An of channels. In the torous type the total no of channels. In the rows below you select how those channels are distributed. The channels can be distributed in fixed or variable kinds – note, that the distributed in fixed or variable kinds – note, that the component Witard makes component witard makes provide the search of the channels is in most cases a synonym for Addresses, but it can also mean plags or channels are Inputs, Outputs, Other (e.g. IO hikk) or a combination of these. In status type, either digital, analog, none. Variants If e.g. an analog input can be connected in different ways, type the number of variants here, as it Influences the
C:\PCSELCAD\Beta19_UK\PCSELCAD\SYMBOL\PLC346\					selection of IO-symbols. The next page will give you one symbol tab per variant.
Previous	Mode = New			Next	Variante cannot be combined

below to learn about the option you have in this tab.

Select PLC-symbol

Type the number of addresses per channel (default = 1) and how many connection points you have per address.

With the combination in the picture, the program finds three possible symbols, which you can choose between using the arrow keys.

You can change to another IO symbol if you are on this tab. If the IO-symbol

	2. Basic component data	3. PLC	4. PLC	5. Mechanical symbol	6. Other diagram symbols	7. Accessories	8. External files	s 9. Other fields 10. Finish
Other syn Input Digital PLC Data Referent Addr. pr. channel I Fill grid Fill grid Channel IO 1 X0 2 X1 3 X2 4 X3 5 X4 6 X5 8 X7 PINDATA: X0[/1:IF	Address I.00 I.00 I.00 I.01 I.02 I.03 I.04 I.05 I.06 I.07 I.07	Address nur OCT	~	XQ Symbol (1/3)	Symbol: 50-01-04	ut nd socket v		In these tabs you select the RLC symbols. You have one tab for each part that you specified on the previous tab, so that you can find each part of the PLC and a common tab with other symbols. Each PLC-tab consists of two sub-tabs, one for 10-data and one for ref-symbols. I/O data Here you type the number of addresses per channel (default = 1). When you have more than one address per channel, Subname is autimatically applied to discretize between channel, Subname is autimatically applied to discretize between channels, Subname is autimatically address per channel, Subname is autimatically address of the intervision name and default address for the iC-terminal, (dick the Fill grid button and the grid is automatically field; sometimes you might need to type in the list and the 2nd row. Ref.symbols that matches your selected IO-symbols. They will match according to total number of channels/addresses and

contains states, you can select one by using the drop-down list.

Type the first connection name – the connection with IO-status – type the first address and place the mouse on the 'Fill Grid' button to see what the program suggests, If it is ok, simply press the button, and you have addressed the IOs.

Select PLC reference symbol

When you press the 'Add symbol' button, the Wizard has already found the reference symbols that match your selected IOsymbol.

When you have 8 inputs, you can choose between ref. symbols with 8, 4, 2 and 1 inputs. The ref. symbols must match in terms of connection points per address, which is difficult when you

Start creating 2.	Basic component data	3. PLC 4. PLC	5. Mechanical symbol	6. Other diagram symbols	7. Accessories	8. External files	9. Other fields 10. Fir
ption 1 Other symb Input Digital PLC Data Reference						°	In these tabs you select the PLC symbols. You have one tab for each part that you specified on th previous tab, so that you cal find each part of the PLC and a common tab with other
Chosen symbols:	5 Select reference	symbol	1 3 5	1 3 5	□ × <u>©</u> k		symbols. Each PLC-tab consists of two sub-tabs, on for IO-data and one for ref.symbols.
	2 4 6 50-03-12.SYM	2 4 6 50-03-17.SYM	2 4 6 50-03-18.SYM	2 4 6 50-03-22.SYM	Cancel		I/O data Here you type the number of addresses per channel (default = 1). When you ha more than one address per
	245 50-03-93.SYM	1 * 57-01-01.SYM	1 *2 57-02-01.SYM	1 3 5			channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard uses
Add symbol	PLCREF8ISYM					8/0	this to find the right symbols Type connection name and default address for the IO-terminal, dick the Fill gric button and the grid is automatically filled; sometim you might need to type in the 1st and the 2nd row.
							Ref.symbol When you press the Add symbol button, the Component Wizard shows the ref.symbols that matches your selected IO-symbols. They will match according to
Previous						Next	total number of channels/addresses and connections per address. You can see how the IO-dat from the IO-data tab is

create the plc's manually.

Here the selection is 8 ref. symbols each with 4 addresses.

The 8 connection points with input status have the same names and addresses as the IO-symbols in the first tab – which means that they match. The only thing left for you to do, is to decide whether you want to use the connection points at the button of each symbol or not. They are often used for supply, if you want to do that, simply type e.g. 24V

Start creating 2. Ba	sic component data 3. PLC				
ption 1 Other symbols				۲	In these tabs you select the PLC symbols.
Input Digital					You have one tab for each part that you specified on the second
PLC Data Reference s	umbola				previous tab, so that you ca find each part of the PLC an
	0-03-18#2				a common tab with other symbols. Each PLC-tab
nosen symbols: 5	0-03-18#2			 	consists of two sub-tabs, or for IO-data and one for
					ref.symbols.
					I/O data
50-03-18	50-03-18				Here you type the number addresses per channel
50 03 10	00 00 10				(default = 1). When you ha
<u> </u>	55 65 15				(default = 1). When you ha more than one address per channel, Subname is
0003215	55 55 15				(default = 1). When you ha more than one address per channel, Subname is automatically applied to
					(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels.
					(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and
					(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard use
		1		8/8	(default = 1). When you ha more than one address per channel, stuamatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard user this to find the right symbol Type connection name and
	Delete Delete all]		 8/8	(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard use this to find the right symbol Type connection name and default address for the IO-terminal, dick the Fillign charter the termine the symbol.
Add symbol		State	~	 8/8	(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard uses this to find the right symbol Type connection name and default address for the IO-terminal, dick the Filligrib button and the grid is automatically filled; something thatomatically filled; something automatically filled; something automatically filled; something
Add symbol		State	~	8/8	(default = 1). When you ho more than one address per channel, Subname is automatically acgoled to differentiate between channels. The number of connections address must be typed and the Component Wizard use this to find the right symbol Toyle connection name and default address for the Do-terminal, dick the Fill gri button and the grid is automatically filed; sometim
Add symbol	Delete all	Pin enabled	Main Type	8/8	(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard use this to find the right symbol Type connection name and default address for the IO-terminal, click the Fill grid button and the grid is automatically filled; sometim you might need to type in ti 1st and the 2nd row.
Add symbol Symbol subname Name X0	Delete all Function 1.00	Pin enabled	Main Type Input - PLC		(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard user this to find the right symbol Type connection name and default address for the IO-terminal, click the Fill grit button and the grid is automatically filled; sometin you might need to type in the
Add symbol Symbol subname	Delete Delete all Function I.00 I.01	Pin enabled	Main Type Input - PLC Input - PLC		(default = 1). When you ha more than one address per channel, Subname is a automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard user this to find the right symbol Type connection name and default address for the IO-terminal, click the Fill grit button and the grid is automatically filled; sometin you might need to type in the stand the 2nd row. Ref.symbol When you press the Add symbol button, the
Add symbol Symbol subname	Delete Delete all Function I.00 I.01 I.02	Pin enabled	Main Type Input - PLC Input - PLC Input - PLC		(default = 1). When you hamore than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard user this to find the right symbol Type connection name and default address for the IO-terminal, click the Fill grit button and the grid is automatically filled; sometin you might need to type in the 1st and the 2nd row. Ref.symbol When you press the Add symbol button, the Component Wizard shows the ref.symbol state matching and the symbol putch and the 2nd rows.
Add symbol	Delete Delete all Function I.00 I.01	Pin enabled	Main Type Input - PLC Input - PLC		(default = 1). When you ha more than one address per channel, Subname is automatically applied to differentiate between channels. The number of connections address must be typed and the Component Wizard use this to find the right symbol Type connection name and default address for the IO-terminal, dick the Fill grint button and the grid is automatically filled; somethin you might need to type in ti Ist and the Znd row. Ref.symbol When you press the Add symbol button, the

and OV, alternatively disable them.

Separate symbol for supply etc.

On the last tab you can select other symbols, for instance for supply and communication.

Press the 'Add symbol' button and select a supply symbol. You can also select symbols for bus connections in the same way.

If you have made special data fields in the database – see pages 18 and 43 – you select the symbols on the 'Other diagram symbols' tab.

When you have selected all diagram symbols, press the Next button to go to the mechanical

	ata 3. PLC 4. PLC	5. Mechanical symbol	6. Other diagram symbols	7. Accessories	8. External files	9. Other fields 10. Fin
Option 1 Other symbols					0	In these tabs you select the PLC symbols.
24 Country Real						You have one tab for each part that you specified on the
Add symbol Delete	Replace Copy	State	~			previous tab, so that you can find each part of the PLC an a common tab with other symbols. Each PLC-tab consists of two sub-tabs, on for IO-data and one for ref.symbols. <i>IJO</i> data Here you type the number of addresses per channel (default = 1). When you hav more than one address per channel, Submame is automatically applied to differentate between channels. The number of connections p address must be typed and the Component Wizard uses this to find the right symbols. Type connection name and default address for the IO-terminal, dick the Fill grid IO-terminal, dick the Fill grid
lame	Function		Pin enabled			button and the grid is automatically filled; sometime
1	. a. Cuorr					you might need to type in th
						1st and the 2nd row.
2					111	

symbol, accessories, data sheet etc..

Example 2: Compact PLC with 8 inputs and 8 outputs

In this example you see a compact PLC, which consists of 8 fixed inputs and 8 fixed outputs.



Select PLC symbols and ref. symbols

Now you see 2 tabs in which you select PLC-symbols: one tab for inputs, one tab for outputs. You use the 2 tabs in the same way as described in example 1, select PLC-symbol and PLC ref. symbol.

Start creat	ng 2.1	Basic component data	a 3. PLC 4. PLC	5. Mechanical symbol	6. Other diagram symbols	7. Accessories	8. External files	
ption 1 O	ther symbo	ols					0	In these tabs you select the PLC symbols. You have one tab for each
1a] - 8 Inp	ut Digital	[1b] - 8 Output Digita	al					part that you specified on the previous tab, so that you can
PLC Data	Reference	e symbols						find each part of the PLC and a common tab with other
Addr. pr. (1 Fill gri		Terminals pr. addr. 1 Clear grid	Address number syste	m	Symbol: 50-02-05 Title: PLC Outpu State: 1: Plug ar			symbols. Each PLC-tab consists of two sub-tabs, one for IO-data and one for ref.symbols. I/O data Here you type the number of addresses per channel
				Symbol (1/4)				(default = 1). When you hav more than one address per
Channel	IO	Address						channel, Subname is automatically applied to
1	YO	0.00						differentiate between
2	Y1	0.01						channels. The number of connections p
3	Y2	0.02						address must be typed and
4	Y3	0.03						the Component Wizard uses
5	Y4	0.04						this to find the right symbols Type connection name and
6	Y5	O.05						default address for the
7	Y6	0.06						IO-terminal, dick the Fill grid button and the grid is
8	Y7	0.07						automatically filled: sometime
								you might need to type in th 1st and the 2nd row.
								Ref.symbol
								When you press the Add symbol button, the Component Wizard shows th ref.symbols that matches your selected IO-symbols. They will match according to
	(Y++(D0)	[O++(O.00)/I:OPD],]	3#8.					total number of channels/addresses and

Example 3: A card, that contains either 8 inputs or 8 outputs

The data on the first tab determines how the PLC is created.

That means that the number of channels and the combination of the channels are determined on this tab.

You need to notice the small 'boxes' around each section. The boxes indicate one part of the PLC and it can either a fixed section or an option.

When you have more sections, each section gets a name, and this name is also found on the following tabs in which you select your symbols.

Below you will find more examples of how the first tab can be filled out.

This example is	🍯 Component Wizard // Database='PCSDB_UK.MDB' Table='Components' Article number='1001'	- 🗆 X
based on a card	1. Start creating 2. Basic component data 3. PLC 4. PLC 5. Mechanical symbol 6. Other diagram symbols 7. Accessories 8. External file	s 9. Other fields 10. Finish
where you determine – e.g. by using a jumper – that the card contains inputs only or outputs only	Total number of channels B Option 1 Channels IO Status Type	Here you see the overall structure of the PLC. A the top you type the total no of channels. In the rows below you select how those channels are distributed. The channels can be distributed in fixed or variable kinds - note, that the Component Wizard makes small boxes around every
only or outputs only.	[1a] 8 Input V Digital V 1 + Fixed	section – fixed and options. When you add the number of channels you must end up
The total number of channels or addresses is 8. Option 1 is 8 inputs. Option 2 is 8 outputs.	+ Option 2 Channels IO Status Type Variants [2a] Output V Digital 1 + Fixed +	with the same total number of channels as above. Channels Channels is in most cases a synonym for Addresses, but it can also mean plugs or channels. The final number of addresses is selected on the following page. 10 status Here you select whether the channels are inputs, Outputs, Other (e.g., IO-link) or a combination of these. 10 statustype
When you continue to select symbols for		You can create channels with an IO status type, either digital, analog, or none. Variants If e.g. an analog input can be connected in different ways, type the number of variants
PLCs and PLC	Path to PLC-Directory C:\PCSELCAD\Beta 19_LIK\PCSELCAD\SYMBOL\PLC346\	here, as it influences the selection of IO-symbols. The next page will give you one
references, the	Previous Mode = New Next	symbol tab per variant.
dialogs look exactly	<u>L</u>	

as in the previous examples.

Example 4: A card, where each address is either input or output

This example is based in a card where you address by address determine its IOstatus.

The total number of channels is 8.

Option 1 is 8 input/output. It means that when you place a PLC-symbol you choose between input and output symbols for each channel.

This means 2 sets	F Component Wizard // Database='PCSDB_UK.MDB' Table='Components' Article number='1001'	- 🗆 X
of tabs, where you select PLC symbols and PLC ref. symbols.	Total number of channels	9. Other fields 10. Finish Here you see the overall a structure of the PLC. A At the top you type the total no of channels. At the top you select how those channels are distributed. The channels can be distributed in fixed or variable
Selection of PLC ref. symbols is very easy: as you have a choice per channel, you also have 1 ref. symbol per channel.	Channels IO Status IO Status Type Variants 8 Input/Output Digital 2 +	iands – note, that the Component Wizard makes small boxes' around every section – fixed and options. When you add the number of channels you must end up with the same total number of channels is in most cases a synonym for Addresses, but it can also mean plugs or channels. The final number of addresses is selected on the following page. 10 status Here you select whether the channels are Inputs, Outputs, Other (e.g., IO-link) or a combination of these. 10 statustype You can create channels with an IO status type, either digital, analog, or none. Variants If e.g. an analog input can be
	Path to PLC-Directory C:PCSELCAD/Beta 19_LIK/PCSELCAD/SYMBOL/PLC346/	The c, and analog input can be connected in different ways, type the number of variants here, as it influences the selection of IO-symbols. The next page will give you one symbol tab per variant. Variante cannot be combined

Mode = New

Example 5: Analog input card

Analog cards can often be connected in different ways, determined by the measurements you want to get, e.g. a current value, a voltage value, or a resistance value. Which again means that you use different connection terminals per address/channel when you connect the sensor.

You can create the PLC with all its connection points in one symbol, but this will not work optimally in relation to PLC-lists etc. The solution is to make symbol sets per connection method, a solution which is very time consuming when you make it manually, but very easy, simple, and quick when you use the Component Wizard. On this first tab, where you select what the PLC consists of, you type it this way:

This data means	🍯 Component Wizard // Database='PCSDB_UK.MD8' Table='Components' Article number='1001'	- 🗆 X
that you create 3 sets of tabs where you select PLC symbol and PLC ref. symbol. As every channel has alternative symbols, you also get 1 ref. symbol	Channels IO Status IIO Status IIO Status III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
per channel.	Path to PLC-Directory C::PCSELCAD/peta 19_LIK/PCSELCAD/SYMBOL/PLC346/ Previous Mode = New	Normany page: IO status Here you select whether the channels are inputs Outputs, Other (e.g. IO-ink) or a combination of these. IO statustype You can create channels with an IO status type, either digtal, analog, or none. Variant If e.g. an analog input can be connected in different ways, type the number of variants here, as it influences the selection of IO-symbolic. The next page will give you one symbol tab per variant. Variante reamont he combined

Example 6: Cards, that contains different plugs (Sub name)

This example is based on a component with the following functions: The component is a module, which per plug has either 2 inputs, 2 outputs or 1 IO-link. In addition to that it must fixed IO-links and 2 supply plugs. When we create it, we create 8 channels, where 1 channel relate to 1 plug. Each channel can be input, output or

As each channel/plug contains more addresses and all channels are identical, we use sub names to differ between them:

other:

Here, each channel has a X-sub name, and we typed the first channel and used the Fill Grid button for the rest.

Total number of channels Here you see the overall structure of the PLC. 8 Total number of channels Total number of the PLC. Channels IO Status Total number of the PLC. 8 Input/Output/Other Analog 3 + + Channels in most cases a synonym for Addresses, but med the number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Addresses, but number channels in most cases a synonym for Address	🖪 Component	Wizard // Database='PCSE	B_UK.MDB' Table='	Components' Article nu	mber='1001'			- 🗆 ×	<
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The outputs are made the same way as the inputs, and below you can see, how the IO-links might look:

As every channel has alternative functions – and symbols – you will also find one ref. symbol per channel.

Kompo	nentguide //	/ Databas	se='PCSDB_DK.MI)B' Tabel=	'Kompor	nenter' Varenummer:	= '5'			_	o x
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3	X2	1	X.00								
4	X3	1	X.00								
5	X4	1	X.00								
6	X5	1	X.00								
7	X6	1	X.00								
8	X7	1	X.00								
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LOAD EXTERNAL - OR CREATE MANY COMP. IN ONE OPERATION

With this function you can load an Excel list that contains many components.

It works in this way: Columns in the list must have the *exact* same names as the data field names in the database. That means that you will have column named EANNUMBER, TYPE, PCSTYPE etc to use the function, because the wizard uses the column names to import the data correctly.



If you find it difficult to remember the names of the data fields, you can start by exporting the project's internal project database – this will give you an Excel file with the correct column names (including some, that you might not use ©)

The function does NOT create the components into the database, but it makes a list which is ready to be imported into the database.

When you select the list, it is loaded into the wizard.

At the top you see the top row, which contains the names of the data fields. At the bottom you can see the file name of the list and you can see that the file is ok.

In this window you select one or more components. Then you will go through the same tabs as shown previously.

When you use the

Check s	el. Uncheck sel	I. Check all	Uncheck all			(i)	Choose the records you want to modify, by checking the desired
Choo	EANNUMBER	ELNUMMER	VARENUMMER	BESTILNR	TYPE	DESCRIPT	rows. Use mouse/arrows and SHIFT-ke
	PCS10001	PCS10001			PCS COMP01	New demo component - lamp type 1	to mark multiple records, and rightclick to check/uncheck all
	PCS10001	PCS10001			PCS COMP02	New demo component - lamp type 2	marked items at once.
	PCS10001	PCS10001			PCS_COMP03	New demo component - lamp type 3	
	PCS10001	PCS10001			PCS_COMP04	New demo component - lamp type 4	
	PCS10001	PCS10001			PCS_COMP05	New demo component - lamp type 5	
	PCS10001	PCS10001			PCS_COMP06	New demo component - lamp type 6	
	PCS10001	PCS10001			PCS_COMP07	New demo component - lamp type 7	
	PCS10001	PCS10001			PCS_COMP08	New demo component - lamp type 8	
	PCS10001	PCS10001			PCS_COMP09	New demo component - lamp type 9	
	PCS10001	PCS10001			PCS_COMP10	New demo component - lamp type 10	
	PCS10001	PCS10001			PCS_COMP11	New demo component - contactor type 1	
	PCS10001	PCS10001			PCS_COMP12	New demo component - contactor type 2	
	PCS10001	PCS10001			PCS_COMP13	New demo component - contactor type 3	
	PCS10001	PCS10001			PCS_COMP14	New demo component - contactor type 4	
	PCS10001	PCS10001			PCS_COMP15	New demo component - contactor type 5	
	PCS10001	PCS10001			PCS_COMP16	New demo component - contactor type 6	
	PCS10001	PCS10001			PCS_COMP17	New demo component - contactor type 7	
	PCS10001	PCS10001			PCS_COMP18	New demo component - contactor type 8	
	PCS10001	PCS10001			PCS_COMP19	New demo component - contactor type 9	
	PCS10001	PCS10001			PCS_COMP20	New demo component - contactor type 10	
	PCS10001	PCS10001			PCS_COMP21	New demo component - gadget type 1	
	PCS10001	PCS10001			PCS_COMP22	New demo component - gadget type 2	
	PCS10001	PCS10001			PCS_COMP23	New demo component - gadget type 3	
	PCS10001	PCS10001			PCS_COMP24	New demo component - gadget type 4	

guide, you only see the data fields that are mapped. However, your Excel file may contain more data.

When you go through the wizard, you may encounter 'grayed out' data fields. This means that there is a difference between the components' contents in this data field. If you want to keep the different entries, simply press Next to continue to the next tab; if you want to change the contents, click in the grey window to select new data.

You have the same options with this function as with the 'normal' component creation functions. The big difference is that data is written into the external file and not into the database,

The purpose of the function is to make it easy to create a long list of components from a new supplier or manufacturer and then be able to select – simultaneously – the same symbols for (some of) the components.

EDIT MORE COMPONENTS IN ONE OPERATION

When you have a (old) database you need to be able to maintain your data and, in that connection, you often need the possibility to edit more than one component in one operation.

When using the Multi-edit function you can select multiple components based on one or more criteria and apply the same data to all components at once, ie the same electrical diagram symbols or the same datasheet or the same status such as approved or obsolete. All together the functions that you also can do by means of the PCSCHEMATIC Database's built-in sql-function.

When you select the Multi-edit function, you enter this window, in which you can make your filter settings, which is how you select the components you want to edit.

Filter settings					
				@	Add or modify filter settings, to select those records you wish t edit
		РСБхх	 		cuit
"MANUFACTUR" equal "PCS" "TVRE" begins with "PCSvr"	ins with s not begin with al equal			Delete filter	
gre	ater than ater than or equal		 	Add filter	
Advanced less	than or equal				

You can filter by al data fields in the connected database, and you have a selection of conditions for all data fields, ie TYPE contains 'PCSxx' or MANUFACTUR contains 'PCS'.

Advanced filter

When you select the Advanced option, you can see the query as a SQL.

The 'normal' filter is

Filter settings		select those records you wish to edit
DESCRIPT V begins with V PCSxx		eur
DESCRIPT' begins with 'PCSxx' MANUFACTUR' equal PCS' TYPE' begins with 'PCSxx'	Delete filter	
	Add filter	
Advanced (DESCRIPT LIKE 'PCSxx%) AND (MANUFACTUR = 'PCS') AND (TYPE LIKE 'PCSxx%)	^	
Apply filter	\sim	

an AND-filter, that means that the components you find fulfil Filter1 AND Filter2 AND Filter3 etc.

With the Advanced setting, you can replace and AND with an OR and in this way make a very different query, which used to be difficult to make.

Note, that if you want to filter by using Boolean fields, e.g. find APPROVED components, you select the field to Contain 1 (=True).

When you have setup your filters, you go further by pressing Next. If anything is 'grayed out' in the tabs, it means that the selected components don't have identical data in the shown data field. If you want to keep the original data, simply continue (press Next), if you want to change the data, simply click in it to activate it, and select or type the new data.

NOTE that this function operates directly in the database. And that means that you don't have any UNDO option!!!

Therefore we strongly recommend that you make a copy of your database BEFORE you use this function.

DELETE COMPONENTS

You can also use the Component Wizard to delete selected components.

The Delete function contains the same filter functions as in Edit and Edit Multiple. This means that you start by selecting the component(s) that you want to delete, and you delete the selected one(s) visible in the window – by clicking the Delete button at

1. Start generer	2. Grund	læggende komponent data	3. Vælg dia	gramsymboler	4. Mekanisk	symbol 5. A	undre diagrams	ymboler 6.1	Tilbehør 7.	Eksterne filer	8. Andre felt	er 9. Færd
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the lower right corner.

COMPONENT DATABASE SETUP

In Settings|Database|Database setup you find this window, in which you tie – map – the two programs – Automation and Database – together.

That means that this is where you 'tell' the program in which data fields it finds various types of information.

Make your own database

We recommend that you make your own database, which means a database with another filename.

See how to create your own database in the Database manual.

Component data

In this example, diagram symbols are found in PCSTYPE and furthermore you can make 'connection diagrams' or mechanical layouts with MECTYPE, SINGLELINESYMBOL and INSTTYPE.

The data fields are all found in the normal database.

The field Other symbols is used to select data fields that contains symbols for either other diagram types than normal connection diagrams (bus connections, infrastructure, pneumatics, etc.) or other types of arrangement drawings. The fields must be created by yourself if you need these kinds of diagrams.

ield setup	Component data	Component accessories	Component search	Database Menu	Url Links	Component Wizar
Article	EANNUMB	ER V	Diagram symb	ol PCSTYP	E	~
Alt. Article		~	Single-line sym	SINGLE	LINESYMBO	L v
Гуре	TYPE	~	Reference lett	ter REFID		~
Function		~	Pin names	PINDAT	A	~
Description	UKDESCRI	PT v				
			Mechanical sy	m. MECTYF	ΡE	~
rice 1	PRICE	~	Other symbols	SINGLE	LINESYMBO	L 🔶
Discount 1		~		INSTTY	PE	
Price 2	NETPRICE	~				- ↑ ↓
Discount 2		~				+
Units/Pack	UNITPRPA	ск 🗸				
Use DB-Cach	ne 🗹					

You can see how to create other data fields in the Database manual.

Setup of Accessory data fields

Mapping of data	🔞 Component Database se	etup				×
fields for the various kinds of Accessories now has its own tab. Read more about Accessories on page 19.	Field setup Component data Fixed accessories AC Optional accessories Mechanical	-	Component search	Database Menu	Url Links	
					<u>O</u> k	Cancel

Possible to edit in all selected data fields

When you work with	🝺 Compo	nent Database set	tup			×
the Component Wizard, you edit in the data fields that are mapped in Settings Database Settings.			Component accessories vant to treat in the Compo	Database Menu MANUFACTUR SOURCE DESCRIPT UKDESCRIPT REMARKS UNITPRPACK HEIGHT APPROVED	Url Links	Component Wizard
As a user, you might need to edit in other fields. To select those other fields, go to the Component Wizard				OBSOLETE CREATED_BY CREATED_YYMI	MDD	
to select them. Add by using the +,	🗹 Extra sy	ntax information				
delete with – and change the order					<u>Q</u> k	<u>C</u> ancel

See the database manual for how to create your own data fields.

with the arrows.

Data fields mapped to a page

PCSTYPE is the standard selection for diagram pages (DIA).

When you fetch components in the database, the program finds the symbols in the data field PCSTYPE, and if you use the Show available window, you can see the unused/available symbols for the component in the current project. When the program uses the default data field, you don't see the name of the data fields.

If you go to the layout page (GRP), it finds symbols in the MECTYPE data field.

Symbol:	
Available -Q1=PCS2250106	×
	💾 🕈 😳

This is the default function for Automation and the database.

If you have other component types, meaning that they are not represented in ordinary connection diagrams, it is possible to create extra data fields for this in the database.

An example might be components for house installation diagrams. Symbols for installation components are not of a "connection diagram" type, so it would be more logical to have the symbols in an INSTTYPE data field.

Also, components that connect to a communication bus can have the bus symbol in the BUSTYPE data field. If the page has been setup to use this data field (see below), the Show available function will automatically show available bus connection symbols.

If you want to use one of the other data fields on a certain page, enter the Page setup, and select the data field.

The option is available on DIA and GRP pages.

You can do this at any time in a project and/or you can make a page template with the setup.

Page data	Paper size	Page function	
Page setup			Normal snap Fine snap
Page remarks	Paper size	Normal 🗸	2,500mm 🖨 0,500mm 🖨
	420mm V X 297mm V	Page type	Grid 10,000mm
	Standard size Paper size	Diagram	Follow page scale
	A3 420mm x 297mm V Vertical format	Ground plan/Mechanical	Other symbol
	Size Norm ISO A0-A4 ~	OIsometric	SINGLELINESYMBOL INSTTYPE
	ISO, A3, 420mm x 297mm	○ Semi isometric	Scale factor 1: Reading direction
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			😤 🖆 🎯
			Page standard
			<u>Ok</u> <u>C</u> ancel

How do I use the database's symbols

You can get help from the database to retrieve different symbols for your components when you draw in Automation:

When you draw circuit diagrams, you use the Show available function to keep track of your available/unused symbols. The program retrieves the symbols from the datafield PCSTYPE, and the field contains all diagram symbols.

The mechanical symbols for arrangement drawings are in the MECTYPE, and they can also be retrieved from the Show available window.

How can I use the Other symbols settings

If you draw, eg., many PLCs, you may find it useful to be able to easily retrieve a symbol, which only shows the connections to your infrastructure/bus. Of course, the symbol can be part of the (long) list of normal diagram symbols, and then you just search for it, when you make the infrastructure overview.

But alternatively, you could make a datafield in the database which only contained this infrastructure/bus symbol. This would make it so much easier to find it.

And if you want to make a separate page with just this part of the documentation, you could link a page to this datafield as well. In that case the Show available function will show only this kind of symbol, eg the infrastructure/bus symbols.

See how to map the datafields on page 41 and 43.