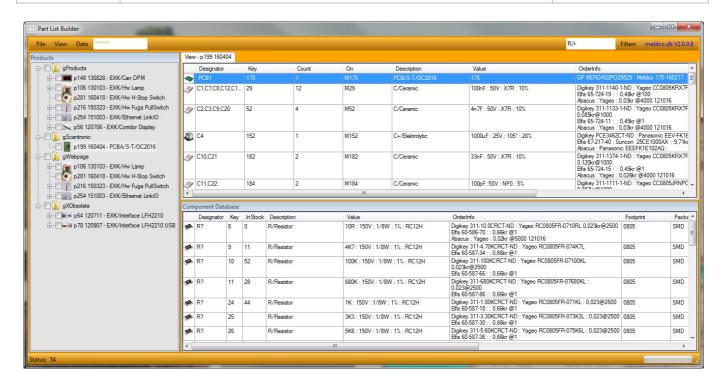
Title:	User Manual Part List Builder Software	
Author:	ELD	MELD
File:	287-170503.doc	
First Version:	2017-05-03	
Updated:	2017-12-06	
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Product Description:

Program for maintenance of Part Lists. The program is based on Microsoft Access database.

In this version, is added a menu View where you can setup many different views.

The OrdrerInfo field is changed to multiline so there can be many Suppliers for each component.

The program is optimized for speed so the tree is saved in a xml file so the program starts faster.

In addition there is added Groups, this makes the tree easier to read,

a Group is the same as a Part List the only difference is it do not have a number and version so its easier to create and delete.

The user interface is been divided into separate windows, so in a later version we can add possibility for open more part lists at the same time.

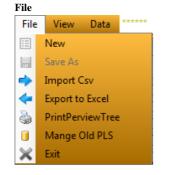
Table of Contents

- 1. User Interface Main Menu
- 2. User Interface Windows
- 3. Database Structure (data.mdb)
- 4. File Structure

To make change in the database you must be super user, type a super user pin code in the pin code field. There is only one in the company there must have this function, because it can give problems if many makes changes at the same time, as default the program is setup to type the pin code if the field is clicked.

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1 User Interface Main Menu



1.1 New

Clears the Part List window.

1.2 Import CSV

This function imports a CSV file (comma separated file), from a extern program like Altium.

- 1.3 Save As
- Save a Part List or Group.
- 1.4 Export to Excel
- Export Part List or Group to excel, this function is used to send a Part List to a sub supplier. 1.5 Mange Old PLS
- Mange Old TES

Move old Part List to oldpls.mdb To make the program faster.

View			
Vie	w	Data	*****
~	C	nly Top	PLS
~	C	nly New	PLS
	Р	roducts	
~	G	iroups	
2	U	pdate	F5

1.6 Only Top PLS

If this is off, will all the Part Lists be shown as a list, instead of a tree.

- 1.7 Only New PLS
- If this is off, will all versions of a Part List be shown, if it's on only the newest version is shown.
- 1.8 Products

If this is on all products is shown, else only the products in groups will de shown.

- 1.9 Groups
- Show Groups.
- 1.10 Refresh

Update Tree, must be run after Part List or Group Save and Delete,

Looks Data\[key] directory trough for index.jpg image and convert it to "~20x20px.jpg", "~50x50px.jpg", "~80x80px.jpg"



- 1.11 Data
- Shortcut to all \Data[key]
- 1.12 Output

Shortcut to \Output folder where all Part Lists and Gerber data there is send to a supplier can be saved. Remember to write a little in "_version.txt" every time something is send.

1.13 ExportWebDate Copt all Webdata to the home

Copt all Webdata to the homepage path..

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2 User Interface Windows

Is divided in to 3 windows.

oducts	Vier	w - p199 1604	404								
Ģ⊡ 🚺 gProducts		Designator		Key	Count	On	Description	Value	Orderinfo		
p148 130828 - EXK/Can DPM											
p106 130103 - EXK/Hw Lamp 	ľ.	C1.C7.C8.C		. 29	12	M29	C/Ceramic	100nF : 50V : X7R : 10%	Digikey 311-1140- Efa 65-724-19 : : (Abacus : Yageo : (0,48kr @100 0,03kr @4000 13	21016
p216 150323 - EXK/Hw Fuga PullSwitch p254 151003 - EXK/Element Inkl0 p56 120706	Ŋ	C2,C3,C9,C	20	52	4	M52	C/Ceramic	2.3 (50V: X7R: 10%	Digikey 311-1133- 0.085kr@1000 Bfa 65-724-11 : : (Abacus : Yageo : 0).45kr@1	
gScantronic (2.2)	٩	C4		152	1	M152	C+/Elektrolytic	00uF : 25V : 105* : 20%	Digikey PCE3462C Efa 67-217-40 : Su Abacus : Panasoni	ncon 25CE100	0AX : 9,71k
	IJ	C10,C21		182	2	M182	C/Ceramic	33nF : 50V : X7R : 10%	Digikey 311-1374- 0,120kr@1000 Efa 65-724-15 : : (
 p216 150323 - EXK/Hw Fuga PullSwitch p254 151003 - EXK/Ethemet LinkIO 	Ĩ	C11,C22		184	2	M184 III	C/Ceramic	100pF :50V : NP0 : 5%	Digikey 311-1111-1		
p216 150323 - EXK/Hw Fuga PullSwtch p254 151003 - EXK/Ethemet Linkl0 p30bsolete p4120711 - EXK/Interface LFH2210	Con	nponent Dat Designator	Key	InStock	Description	III Value		OrderInfo	Digikey 311-1111-	Footprint	C0805JRNF
p216 150323 - EXK/Hw Fuga PullSwitch p254 151003 - EXK/Ethemet LinklO	Con	Designator R?	Key 8	InStock 0	Description R/Resistor	Value 10R : 150V : 1,	/8W : 1% : RC12H	OrderInfo	Digikey 311-1111-	Footprint	Pad
 p216 150323 - EXK/Hw Fuga PullSwtch p254 151003 - EXK/Ehemet Linkl0 gXObsolete p64 120711 - EXK/Interface LFH2210 	Con	nponent Dat Designator	Key 8	InStock	Description	Value 10R : 150V : 1,		OrderInfo Def = 04110.0CRCT-ND : Yageo RC0805 10.56br @1	Digikey 311-1111-	Footprint	Pac
 p216 150323 - EXK/Hw Fuga PullSwtch p254 151003 - EXK/Ehemet Linkl0 gXObsolete p64 120711 - EXK/Interface LFH2210 	Con	R? R?	Кеу 8 9 10	InStock 0 11 52	Description R/Resistor	Value 10R : 150V : 1, 4K7 : 150V : 1,	/8W : 1% : RC12H	Orderinfo OCRCT ND: Yageo RC0800 10:00:00:00:00:00:00:00:00:00:00:00:00:0	Digiker 311-111- 5FR-0710RL 0.023kr@2500 05FR-0710RL 15FR-0710KL	Footprint	Pac SMD SMD SMD
p216 150323 - EXK/Hw Fuga PullSwtch p254 151003 - EXK/Ethemet Linkl0 p30bsolete p4120711 - EXK/Interface LFH2210		R? R? R? R?	Key 8 9 10 11	InStock 0 11 52 28	Description R/Resistor R/Resistor	Walue 10R : 150V : 1, 4K7 : 150V : 1, 100K : 150V : 1, 100K : 150V : 1 680K : 150V : 1	/8W : 1% : RC12H /8W : 1% : RC12H //8W : 1% : RC12H //8W : 1% : RC12H	Odder/Mo Operative Operative <th< td=""><td>Digley 311-111- 5FR-0710RL 0.023vr@2500 D5FR-074K7L ISFR-07680KL :</td><td>Footprint 0805</td><td>Pac SMD SMD SMD SMD</td></th<>	Digley 311-111- 5FR-0710RL 0.023vr@2500 D5FR-074K7L ISFR-07680KL :	Footprint 0805	Pac SMD SMD SMD SMD
p216 150323 - EXK/Hw Fuga PullSwtch p254 151003 - EXK/Ethemet Linkl0 p30bsolete p4120711 - EXK/Interface LFH2210		R? R? R? R? R? R? R?	Key 8 9 10 11	InStock 0 11 52	Description R/Resistor R/Resistor R/Resistor	Walue 10R : 150V : 1, 4K7 : 150V : 1, 100K : 150V : 1, 100K : 150V : 1 680K : 150V : 1	/8W : 1% : RC12H /8W : 1% : RC12H //8W : 1% : RC12H	Olderity/6 0 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.524 (#2500) 12016 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.555 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.555 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1) 0.554 (#1)	Digley 311-111- 5FR-0710RL 0.023vr@2500 D5FR-074K7L ISFR-07100KL ISFR-07680KL : 05FR-07680KL : 0.023@2500	-ND : Yageo CC Footprint 0805 0805 0805 0805	Pac SMD SMD SMD SMD
		R? R? R? R?	Key 8 9 10 11	InStock 0 11 52 28	Description R/Resistor R/Resistor R/Resistor R/Resistor	Value 10R : 150V : 1, 4K7 : 150V : 1, 100K : 150V : 1, 680K : 150V : 1, 1K : 150V : 1,/E	/8W : 1% : RC12H /8W : 1% : RC12H //8W : 1% : RC12H //8W : 1% : RC12H	Orderinfo Oscience 10 0.567 e1 0.0567 e1 11 0.0567 e1 0.0567 e1 12 0.0567 e1 0.0571 e1 0.0237 e1550 e1 0.0571 e1 0.0567 e1 0.0238 e1550 e1 0.0571 e1 0.0567 e1 0.0537 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1 0.0567 e1	Digley 311-111- 5FR-0710RL 0.023vr@2500 D5FR-074K7L ISFR-07100KL ISFR-07680KL : 05FR-07680KL : 0.023@2500	-ND : Yageo CC Footprint 0805 0805 0805 0805	

2.1 **Component Database**.

Before a component can be used in a part list or group it must have a number(KEY), to get this the components must be Created in the component database, they will automatic get a number(KEY). To make a new part list this also first must be created in the database so it also have a unique key so it can be related to, the name of the part list is the Description. When it is created in the database, a Part List can be saved on the key by File, Save As. An component can not be deleted only changed. ex. "NU" in front of Description and Value.

All changes will be saved in a log database table xComponentsChanges

2.1.1 Menu if right click line in window 2.1

2.1.1	Wenu if fight click line h	I WIII	10 1 2.1				
	E PLS	•	Add New Line		PLS	•	
	🚺 DB	•	Update Key		DB	•	Add New Component
	🖙 Used In		Remove Selected	63	Used In		Change Component
	History	→		Ð	History	•	
	E CopyData			È	CopyData		
	🔎 Google Search			P	Google Search		
2.1.2	PLS, Add New Line						
	Add this component to par	t list					
2.1.3	PLS, Update key						
	Change selected component	nt in p	part list to this key (component)				
2.1.4	DB, Add New Component						
	Add a new component to t	he dat	abase, using selected component a	as temj	plate, by popup wind	dow.	
2.1.5	DB, Change Component						
	Change component in data	base,	by popup window.				
2.1.6	Used In						
	1	comp	onent is used in, in popup window	·.			
2.1.7	Show Key History						
	e	comp	oonent over time, in popup windov	v.			
2.1.8	CopyData						
	copy data to clipboard.						
2.1.9	Google Search						
	Open a browser search go	C					
2.1.10	•	·	plorer will open with images an				
	-		ata/[key] by click this folder is sh		-		
				na men	u view,Refresh'' c	licked	the image will be converted to ~20x20.jpg
	and shown as the compone	ent im	age.				

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2.2 Part list window 2.2.

When a part list is saved (Save As) after View, Refresh it will be shown in the tree, by menu view it can be selected only to show the newest version or show all. **Menu if you right click on a part list:**

💕 Open	
🔯 View 🕨	Show All
Compare Checked	Show First Line
🗙 Delete	Show Elfa
	Show Digikey
	Show First Line AS Gp PLS

2.2.1 Open

Open the selected part list or group in the window (2.3) so it can be changed, one component each line. 2.2.2 View

View Show the selected part list or group in the window (2.3) in user defined format. This is set up by clicking View.

2.2.3 Compare Checked

This function compares checked part lists in a popup window.

2.2.4 Delete

Deletes a part list or group, confirm popup window.

2.3 Window for edit / show part list or group 2.3

By right click part list or group it can be opened or shown in window (2.3), Then it can be changed and press Save As in file menu it's possible to save it as a group or part list with a new version, The active part list is the one with the newest date. p106_YYMMDD

Menu right click component:

	PLS	•	Add New Line
	DB	•	Update Key
69	Used In		Remove Selected
Ð	History	•	
	CopyData		
P	Google Search		

2.3.1 Remove Selected

Remove selected component from group or part list.

3 Setup pincode (ab4711)

Settings		
ConvertD	В	
Setup		x
Settings	Value	
App_Language	English	
App_DefaultPinCode	ab8793	
App_PathData	Default	
App_PathWebData	Default	
Sql_ConnectionString	Default	
Sql_ConnectionStringOldDb	Default	
Sql_ColDB	Default	
Sql_ColPIs	Default	
Sql_NewKeyCol	Default	
Sql_NewKeyStartWith	Default	
Sql_NewKeyEndWith	Default	
Sql_PlsMultiLineCol	Default	
Sql_PIsAllowEdit	Default	
Sal TreeInfoFeld	Default	

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4 Database Struktur (data.mdb)

xComponents: table for components.

All tables there starts with p is a part list, them there starts with same number is part list for same product with different version, The number is the key the part list have in the xComponents table.

Grups starts with g they have same format as a part list.

Other:

tempPLS: Active open part list shown in view

viewPLS: Part list shown in view

xComponentChanges used to save change history xGrups Not in use.

🔄 data - database (Access 2000-filformat) - O **X** 📸 Åbn 🔟 Design 🛅 Ny | 🗙 | 🏪 🐎 🧱 🏢 Objekter 2 Opret en tabel i designvisning. p199 160404 Ħ xComponentsChanges 2 Opret en tabel vha. en guide. p215 150323 g xGroups Tabeller Opret en tabel ved at angive data. 2010 p216 150323 Forespø... gProducts p239 150707 E Formul... gScantronic p239 150910 Rapporter gWebpage p239 151002 gXObsolete p239 160229 🗎 Sider p0 130123 p252 151002 Z Makroer p104 130103 p253 151003 💸 Moduler p106 130103 p254 151003 p147 130827 p262 151216 Grupper p147 160530 p281 160418 Foretru... p148 130828 p5 120711 p160 131010 p55 120706 p160 131018 p55 120808 p160 131202 p55 120912 p160 140205 p56 120706 p64 120711 p160 150220 p163 131029 p7 120907 p78 120907 p170 140325 p199 141202 tempPls p199 150123 viewPls p199 160112 xComponents

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4.1 **Table xComponents**

Is The Table where all parts(components, cardboard box, pcb) is created.

All parts gets a number (KEY) this number is used in all Part List where this component is used, so if a line is changed all Part Lists is changed.

cKey cDes	si cDescription	cValue	cOrderInfo	cCostPrice	clnStock	cFootprint	cPackage	cLocation	cRemarks -
30 C+?	C+/Tantal	4u7F : 50V : 20%	ETK 593D475X0050D2T : Vishay : 2,02kr Abacus : AVX TPSD475M050R0500 : : Low ESR 0R6 MOBS Speaker Noice	2,02kr	7	CASE-D 7343	SMD	XP2-P	AVX TPSD475M050R0500 10-12 uger
31 C+?	C+/Elektrolytic	68uF : 6V3	Abacus : NIC NSP680M6,3D2TR :			CASE-D 7343	SMD		
32 Q?	Q/NPN	BC847B=1F : 45V : 100mA	Digikey 568-1633-1-ND : NXP BC847B : 0,452kr@100 Elfa 71-009-76 : NXP : 0,288kr @1 Abacus : : 0,06kr @ETK	0,452kr	21	SOT23	SMD	XP1-R	
33 Q?	Q/PNP	BC857B=3F : 45V : 100mA	Digikey 568-1638-1-ND:NXP BC857B:0,482kr@100 Elfa 71-311-83:NXP:0.397kr @1 Abacus:: 0,06kr @ETK	0,482kr	3	SOT23	SMD	XP2	
34 Q?	Q/MosFet	SI9933CDY : 20V : 4A	Digikey DMG9933USD-13DICT-ND : Diodes DMG9933USD-13 : 1,055kr@1k EBV : Fairchild FDS9933A : 1,68kr @2500	1,68kr	3	SO8	SMD	XP2	Min EBV Reel 2500pcs;3,53kr @ETK

4.2 Part lists

4.2.1 Name

consist of (p [key] space dato)

Key is the number the part list have in xComponent so a part list also can be part of other part lists. Dato: The version of the part list.

4.2.2 Columns

Designator: is the location of the component on the pcb, Key: is the type, Count: is the pcs (no value =1)

	p106 130103 - tab	el		X						
	pDesignator	pKey	pCount							
▶	EXB1	104								
	MCH1	101								
	MCH1A	107								
	MCH2	102								
	MCH3	120								
	Å1	121	0,0020							
	Å2	139	0,1							
*		0								
Po	Post: I 1 1 1 1 7									

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5 File structur

To Start The program run PartListBuilder.exe It placed in Release folder

Folder: \Release\Data Contains images and files for every key in databasen

Folder: \Release\Log Contains log files for a earlier version of the program

File: \Release\data.mdb is the access database there contains all part list data. File: \Release\oldpls.mdb is the database for old obsolite part lists, it can be administrated from menu, "Manage Old Pls"

6 Requrements

Windows 7 .net framework 2.0