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1. Introduction

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Analyze complex bills of materials (BOM) of any kind professionally and efficiently with PALIX: whether production or design BOMs. ECAD, MCAD or a combination of these. Devices or assemblies BOMs with one or multiple levels.

With PALIX you can quickly recognize

- · differences in direct comparison of material usage across multiple BOMs incl. revision (matrix output),
- Ideal for variants or differences in BOM revisions
- cost drivers by adding up the number of items and lengths for cables, hoses, etc. for identical parts across all items • and comparing them across several BOMs.
- items as well as the comparison across several parts lists (matrix output)
- differentiated in complex multi-level BOM structures (component A in BOM 2 not available in level 3) •
- all designs used on an assembled PCB in a summary (PCBA)

With PALIX you can quickly create

- the order data for the electrical assembly (14x capacitor 0µ1, 20x R10k 1% etc.)
- a BOM Review: Show me all PFAS relevant articles using keywords such as "O-ring", "cable" or "PTFE"

PALIX also helps

- · better recognize the level structure of the parts lists
- sort and color-code deviations in BOM
- export the results
- · express the deviations in figures

Convince yourself of the performance: A free demo version with all comparison functions is available in our download area.

1.1 How it works?

- Export the bill(s) of material from your CAD, PDM, PLM or ERP / SAP system. Formats CSV, XLS or XLSX
- Select the bill of materials (BOM) files in PALIX •
- · Assign the columns of the BOM files to the PALIX defaults
 - If necessary, deactivate columns that are not present
- Start desired analysis
- · Export results if required

2. Operation

2.1 Screen "Home"

The "Home" screen is the control center:

- Select parts lists files (BOM) •
- Start BOM analysis •
- Assign BOM file columns •
- Open program setup
- View help file

in the l	30M file
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		•	200 Level Art B Rev conscheden	v	Gruppinen Suche in BOM 2
	a julio internetional antifat	Sama Arritori David Salari International Int	Conservation 2002 2017 2012 2017 2012 2017 2012 2017 2012 2017 2012 2017 2012 2017 2012 2017 2012 2017 2017 2017 201	64.32.010 62.00	04 0° 05 00
Internet Where used Uti-BOM: Usage in Multi-BOM: R	ed Rev Wh Revision in Multi-B	ere used Qty DM: Total qty. per Compa item?	Compare ire two part lists Part I fulti Level)	Marker ist viewer, marker,	pcs. 7. pcs. 17. pcs. 11. pcs. 1.
which parts list? which parts	* _	<u>র্</u> ষ গুরু	C		
with column head lines to columns for	First BOM line	<u>L</u>	C Add	Remove	



2.1.1 BOM analysis

Via the 5 big buttons in the upper half of the program you start a BOM analysis

Please note: The "Where used" and "Comparison" functions require at least 2 selected parts lists.

Tip: The "Where Use". "Comparison" and "Marker" comparisons are each output via a separate window. All 3 windows can be opened in parallel and work with them.

Function "Where used"

Groups identical articles to one position and shows in which BOM the article is used in a matrix. The function "Where Used" compares all selected BOM listed under BOM list. As result differences are special highlighted in colour and grouped if desired. At least 2 BOM are required. Types of function "Where used"



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- Where used: An "X" (Art ID exists in BOMx) indicates the usage of the article
- Where used Rev: The item "Revision" indicates the usage. An article with different Rev in the BOMs are special coloured
- Where used Qty: The function summarises article qty. (screw, resistor,...) or length (cable, hose,...) and displays I . for each item. The sum shows the BOM usage. Deviated sums are coloured special.

Function "Compare"

Comparison of two multi level BOM parts lists level wise incl. Title, Rev, Quantity.



Function "Marker"

Function quickly identifies and sorts certain components or article types (e.g. all screws or item types (e.g. all screws or items from an item no. range) from individual individual BOM. There is also a counting function (e.g. how many 0µ1 capacitors) or the calculation of totals for identical articles with the number per occurrence / length for cables, hoses.

	Level	D	784	Tev.	008	80M	WARKER		
25		7022340050	PCRA Controller	· .	10	Name			
26	4	7022340051	POB leared UPS2	6	11788	Type	Contain		
27		7022343055	Controller #79058535	0	5748	Colum	m 1		
28		7047130777	EEPROM 24CE2 SOIC	c	4775		Value 1	Value 2	
21		7588003124	C2 100#F 52N		7555	Search			
12		760258002	Connector X12 TE 123212-12		1011				-
24		7022040470	Sealing housing PTFE		2023		Nev	See	Delete
35	3	7022341054	PCBD holder Nuten 12mm x 3mm		49831			-	-
35	~2	7022341056	Power scoply 200ks / 346c 2A	A	2222	11.00			
27		7022541057	PVC Type BORINA	5	7354				
18		7022141062	Screw Mile20 Oin 7985 - Z		11214				
39	-2	7022343758	Switch Tool 20Nac	ε	118			L) Restor	
TAS C	die					-11			
40	1	7255005200	Cable sheeted 340,75gmm PVC	5	345				
41	11	725000005	Cable single 3 Spran PVC		227				
42	- 1	725000008	Cable single & Spran PVC		987				
645 0	-King					- 11			
13		7034-3046	0-Neg 43+24mm 75 R04		522			0	
43	-	7020613030	0-Reg-(3+2.4mm 75 R04		522			•	
KAS R	mister					100	- 0	ut Name Te	
29	4	7022752746	Residue R11 18 (805 1%)		4252				
20	4	7118000049	Resistor R12 10k 0805 1%	8	806			Court Court	
								_	
								Sum .	

2.1.2 Select BOM files

Add BOM files to the list via the "Add" button. Depending on the selected analysis method, one or more BOMs will be used. Allowed formats are CSV, XLS and XLSX, select one in the file dialogue screen.



To remove a BOM from the list, select the file by mouse click and choose the "Remove" button. By double-clicking in the field of BOM files you delete the complete file selection.

Notes

- PALIX saves the last 20 files for a quick re-evaluation.
- The BOM from the first file is called BOM1, the one from the second BOM2 and so on. You can use Drag&Drop to reorder the list.
- After loading the BOM file, assign the columns to the defaults, like the article ID to the corresponding column of the BOM file. See next chapter.

2.1.3 Assign columns

For the correct function, the correct assignment of the columns is important. The following applies:

- Article level : column with the level of the item/assembly. Level 0 is the TOP level (column optional). Double-click on selection box deactivates use if BOM without article "Levels".
- Article ID : Column with unique article number (mandatory field).
- Article description: column with title of the article (mandatory field) •
- Rev : column with revision to article (optional).
 - Double click deactivates usage => function "Usage Rev" deactivated
- Qty : column with quantity / length specification for the article (optional)
 - Double click deactivates the usage => "Usage Qty" deactivated

Note: PALIX saves the assignment so that evaluation can be started immediately if the BOM format remains the same.

2.1.4 BOM Parameter

- First BOM line: Line number where the BOM file names the first article, usually the device/module (TOP level).
- BOM with column head lines: Enable the option, if the BOM file contains headings to the columns. The headings are located in the line "First BOM line" -1.

2.1.5 Home screen footer

The footer displays:

- the set / recognised language for user interface (DE, EN)
- The version of the software .
- · Further information, as the number of articles found

2.1.6 Program menu

Via the menu in the header the following functions are available:

- File
 - Setup: Display program setup .
 - Close: Quit the program
- Internet •
 - . Help: View PDF from web (PDF viewer required)
 - Homepage: View the PALIX homepage in your default browser

3. Functions

3.1 Screen "Where used"

The matrix shows article usage across all BOMs:

- Compares any number of parts lists
- Y-axis names articles
- X-axis names the parts lists
- Matrix combines multiple used articles in one position
- Matrix shows the usage in the parts lists via an "X
- Statistics shows coverage
- Colour markers identify deviations
- "Grouping" summaries all deviations as a block
- Search result, e.g. all screws, summarised as an article group
- Export of the result (XLSX, CSV)
- Search by article ID or description
- Column sorting by article ID or line number

3.1.1 Procedure

- Select BOM files and assign the columns
- Select the "Where Use" button
- The matrix is displayed
- Press the "Group view" button to group the deviations together •

Colour marking 3.1.2

The comparison marks the article line as follows:

- Green: Articles are included in all parts lists (selected BOM files)
- White: Articles are not included in all parts lists
- Yellow: Articles only in BOM 1 (first BOM column) *)
- Pink: Articles are not included in the first part list BOM 1 *)

*) Use Drag&Drop to change the order of the parts lists on the "Home" screen.

Using the "Group view " function, the articles are grouped according to the colour code and shown at the top of the BOM display.

3.1.3 Group view

The "Group view" function groups the colour-coded articles together as blocks. To group, press the button of the same name. Press it again to return to the list view.

3.1.4 Statistics

The statistics on the right side shows in % the match between the BOMs as well as the number of items per BOM.

3.1.5 Find

Search via article ID and article title:

- · Enter the search term in the text field. Then press the "Find" button
- The "Search result" frame, between matrix and statistics, shows the line numbers of the articles for the search results
 - Click on a number to jump to the article



Tip:

- and all articles with the designation will be grouped as a block.
- To end the search, select the BOM analysis function again in the Home window.

3.1.6 Sorting by the item ID

Click on the "Art ID" column in the header to sort the view alternately in ascending and descending order. Click on the "No" column to return to the usual sorting by line number.

3.1.7 Copy article ID to clipboard

Double-click on the line number "No" to copy the article ID to the clipboard.

3.1.8 Export

Use the "Export" button to save the grouped result to an XLSX or CSV file. Each group starts with its heading.

3.2 Screen "Where used Rev"

The matrix shows article usage via revision to article across all BOM files:

- Compares any number of parts lists
- Y-axis names articles
- X-axis names the parts lists
- Matrix summaries multiple used articles in one position
- Matrix shows the usage in the BOM via the "revision" of the article
- Statistics shows coverage •
- Colour markers identify discrepancies
- Grouping" summaries all deviations as a block
- Export of the result (XLSX, CSV)
- Search by article ID or description •
- Column sorting by article ID or line number •

3.2.1 Procedure

- Select BOM files and assign the columns
- Select the "Where Use Rev" button
- The matrix is displayed
- Press the "Group view" button to group the deviations together

3.2.2 Colour marking

The comparison marks the article line as follows:

- Green: Article present in all parts lists with identical revision •
- Yellow: Article present in all parts lists, but with different revision •
- Pink: Article present in all parts lists, but revision is missed! •
- White: Article only present in the BOM whose line shows a revision.

Using the "Group View" function, the articles are grouped according to the colour code and shown at the top of the BOM display.



"Group view" also displays the search results as a block of articles at the end of the list. For example, enter screw

Vhere u	ed Rev									
Q Fin	d ?					Export			Group	View
	Art ID	Title	Dev_A_Var 01	Dev_A_Var 02	Dev_A_Var 03		BOM	Equal	Diff	Unique
some B	OM (see tag)						BOM1	32	2	7
	7011924564	Device Cooler Type 01	A				BOM2	32	2	7
	7093227881	Fuse 1A 250V 5x20mm	A		A		BOM3	32	2	4
	7022346256	Cooler A 12W	с							
	7022340059	Cool base VZ-23	В	в						
	7022340068	Grid evaporator	в	с						
	7022346255	Cooler A 23W	с	с						
	7022352746	Resistor R11 1k 0805 1%	В							
	7011924584	Device Cooler Type 02		в						
	7093227991	Fuse 1,2A 250V 5x20mm		A						
	7126646256	Cooler A 18W		в	в					
	7042352746	Resistor R11 2k2 0805 1%		A	Α					
	7411924584	Device Cooler Type 03 Light			в					
rt in all E	OM, but Rev. not e	qual								
	7022345470	Housing assy	E	F	F					
	7022340050	PCBA Controller	R	s	S					
rt in all E	OM and Rev. equal									
	7022342468	Basic construction	F	F	F					
	7022342450	Base Module	В	В	В					
	7022345469	Basic Assy	т	т	т					
	7012227971	Pressure spring	В	В	В					
	7098625820	Contact spring	В	В	в					
	7022340042	Cooler assy	н	н	н					
	7022340043	Driver panel	6	G	G					
		le la					•			

3.2.3 Statistics

The statistics on the right show how many parts are identical, have an unequal revision as well as only occur in a certain BOM.

3.2.4 Grouping, search, export...

Corresponds to the description as under "Where Used".

3.3 Screen "Where used Qty"

The matrix shows the usage per article in the BOM via the total number of pieces or length

- Compares any number of parts lists .
- Y-axis names articles .
- X-axis names the parts lists (BOM files)
- Matrix summaries multiple used articles in one position
- Matrix shows the sum of the summarised articles as "number" or "length", like for screw or cables
- Statistics shows coverage
- Colour markers identify deviations .
- "Grouping" summaries all deviations as a block .
- . Export of the result (XLSX, CSV)
- Search by article ID or description
- Column sorting by article ID or line number .

3.3.1 Procedure

- Select BOM files and assign the columns
- Select the "Where Used Qty" button .
- . The matrix is displayed
- Press the "Group view" button to group the deviations together .

3.3.2 Colour marking

The comparison marks the article line as follows:

- Green: Article present in all parts lists with identical number of pieces / length. •
- Yellow: article present in all parts lists, but with different quantity / length
- Pink: Article NOT found in the first parts list BOM1 *) •
- White: Article only found in the first part list BOM1 *) •

*) Use Drag&Drop to change the order of the parts lists on the "Home" screen.

3.3.3 Statistics

The statistics on the right side show how many parts are identical (green mark), have an unequal revision (yellow mark) as well as only occur in a certain BOM (white mark)

3.3.4 Grouping, search, export...

Corresponds to the description as under "Where Used".



3.4 Screen Compare (Multi Level)



This method shows differences in two BOM files. If available, the level structure is observed as it is common in the design BOM (Level device-assembly-article). For example, it is considered a deviation if component A is used in BOM 1 at level 2 and is used in level 3 in BOM2:

- · Comparison of two multi-level BOM with respect to the level structure
- Compares all columns of the BOM •
- Icon shows whether the item is an assembly or a part
- Detail view shows deviations to the article in the BOM columns .
- Column sorting by article ID, article title, article revision, article number, ECR no. or line number .
- Statistics shows coverage
- Colour markers identify deviations
- Grouping" summaries all deviations as a block •
- Export of the result (XLS, CSV) .
- · Search by article ID or description

3.4.1 Procedure

- Select BOM files and assign the columns
- Select the "Compare" button. Note: Only the first 2 BOM files are compared. Use BOM Drag&Drop to change the sequence
- The two parts lists are displayed: On the left the first parts list BOM 1 and on the right the second one BOM2
- The function "Grouping" is active and summaries the deviations in colour
- 3.4.2 Colour marking

The comparison marks the article line as follows:

- Green: Article in the parts lists identical (Level, title, Rev, Qty, ECR...)
- Yellow: Article in the parts lists different, such as title, rev, or number,... • Open the detailed display for the deviation by clicking on the line number (see below).
- Pink: Part / assembly is missing in the other part list •
- White: Marking from "Article cross-link" search, see next page.

Using the "Group view " function, the articles are grouped together according to the colour code and shown at the top of the BOM display.

		Provide the set of the	urt ID / nt		Group	View	
					Find in	BOM 2	
		Wit	h differences: 3 (0,31%) M 2- 10 (100.00%)				
			Dev_A	_Var 02	.xls		
	Level	ID	Title	Rev	ECR	Unit	Qt
ferenc	5						
39	*****6	7258000200	tape 23Z tube 2 len. Ø8 len.len.	В	3236	len.	0,8
820	1	7022340063	Electronic chassis basic construct	V	1188	pcs.	1
822	***3	7022355785	Base sheet g-chassis	С	8899	pcs.	1
nique as	sembly incl. p	arts or only article -					
956	**2	7442112343	RFID PCBA	G	2345	pcs.	1
957	***3	7114532244	Cable power	A	0	pcs.	1
958	***3	7588005839	Transistor N-Channel BSS22	A	11081	pcs.	1
959	3	7588000844	R 10R 0.125W	A	0	pcs.	8
960	***3	7588000705	R 100R 0.125W	A	0	pcs.	7
961	***3	7588000849	R 0R 0.125W	A	0	pcs.	7
962	***3	7588000553	R 12K 0.125W	A	0	pcs.	7
963	***3	7588000543	R 10K 0.125W	A	0	pcs.	17
964	***3	7588123523	RFID modul	с	345	pcs.	1
984	1	7022399877	RFID Label	R	2355	pcs.	1
me	·						
	-1	7022342468	Basic construction	F	1297	005	1
	**2	7022342450	Base Module	в	8251	pcs.	1
	***3	7022345469	Basic A	т	9658	pcs.	1
	4	7022345470	Housing assy	E	11197	pcs.	1
5	•••••s	7012227971	Pressure spring	в	2074	pcs.	1
	*****5	7098625820	Contact spring	в	8778	pcs.	2
	****5	7093227881	Driver	А	0	pcs.	1
1	****5	7022340042	Driver assy	н	8252	pcs.	1
	******6	7022340043	Driver panel	G	49	pcs.	1

3.4.3 Screen Difference

Deviations of the in BOM 1 and 2 yellow tagged article. different characteristics are shown in a separate window, when you click on the line number (column No) in BOM 1 or 2 view. The differences are here yellow tagged too.

3.4.4 Statistics

The statistics in the header area shows how many parts are identical and different as well as included only in the left or right BOM.

3.4.5 Article Cross-Link

By clicking on the line number (column NO) in the left or right BOM view, PALIX searches for the item in the same level (assembly) in the respective other BOM. The found line is marked in white.

3.4.6 Find

Use the search field to enter the text you want to find in the left or right BOM. To search in the left one, press "Search in BOM 1" and in the right one "Search in BOM 2".

The rectangle between the tables shows the line number(s) where the search term was found in the respective selected BOM. If several line numbers are shown, the search term was used several times. Clicking on a line number jumps to the position in the BOM.

3.4.7 Copy article ID to clipboard

Double-click on the line number (column No) to copy the article ID to the clipboard.

3.4.8 Group view

The "Group view" function groups the colour-coded articles together as blocks. To group, press the button of the same name. Press it again to return to the list view. Grouping affects both parts lists.

3.4.9 Export

Use the "Export" button to save the grouped result to an XLSX or CSV file. Each group starts with its heading. Assemblies are also marked in the "Level" column with the abbreviation AS for Assembly.

Different items are marked in the export as follows (Yellow coded in matrix): Identical level with the bracket (1) and (2) indicate that the item properties are different.

Screen "Marker" 3.5

3.5.1 Marker

The "Marker" function is ideal for quickly finding specific items in the part list. You define the search criterion, such as "Text contains" or "Number range" and name the column in which the search is to be carried out. Afterwords you save these "markers" permanently so that they can be quickly reused for further parts lists. Tip: Several markers can be combined:

- Quickly find and mark specific items in the parts list .
- The grouped view summaries "marked" items .
- Multiple filters: text identical or contains, single number or numbers from..to (Range), number > or < or "Assembly". •
- Column sorting by article ID, article title, article revision, article number, ECR no. or line number
- Export of the results

No	Ind	ID.	Title	Rev	FCR	BOM MARKER	
ñ.		703333400560	DCD1 Controller			Name	
8.76		7022240051	DCR based (022	G	11799	Type Contain	-
8 17		70222940055	Canterlas AT0028525		5742	Column ? -	
- 20		7022340033	EEROM 24CR2 SOLC	ć	9779	Value 1 Value 2	
3 21		7589002124	C2 100-5 50V		7966	Search	
3 22		7688258002	Connector V12 TE 122212-12	2	1011		
8 24		7072340478	Sealing housing PTFF	n	5823	New Save De	let
8 35	***3	7022341054	DCRA holder Noton 12mm v 3mm		46831		-
8 36	**2	7022341056	Power supply 230/ac / SVdc. 24	4	2222		_
37	**2	7022341057	PVC Tube 8/50mm	8	7554	Phas Lable Parts ID / 0x Phas U-10	
3.8	2	7022341062	Screw M3x20 Din 7985 - 7		11234		
39	**2	7022343753	Switch 1pol 250Vac	E	118	Screw PEAS Resistor	
PFAS Ca	hle		-				
40	1	7258000200	Cable sheeted 3x0.75gmm PVC	8	345		
41	11	7258000089	Cable single 0,5gmm PVC	8	987		
42	*1	7258000089	Cable single 0.5gmm PVC	8	987		
PEAS O	Ring			_			
8 33	3	7039818098	0-Ring 4.3 x 2.4mm 75 FKM	8	5232		
43	1	7039818098	O-Ring 4.3 x 2.4mm 75 FKM	3	\$232		
PEAS Re	sistor			-		5/9 - Count Name Tale	-
29	2	7022352746	Resistor R11 1k (805 1%)	8	4992	COM + COM Hanne Tibe	
20		7119000040	Pasistes P12 105 0905 11/		976	N Card	



Level Group: (*1AS **2AS ***3AS ****4AS ****5 ****5

Group: Dif

7258000200 7258000200

7022355785

3.5.2 Counting

- Application sample MCAD/ECAD: Determine number of identical . components
- Application sample: ECAD: Which component uses which package etc.
- Column assignment freely select able (Count / Name)

Note: Each occurrence of an item counts as 1. A BOM column "Qty" is not considered, unlike "Sum" (below) or "Where Used Qty".

3.5.3 Function "Sum"

- MCAD/ECAD application example: Adds the number / length of each item if an item is mentioned more than once in the BOM.
- Output of the total in the "Qty" column
- Example: Occurrence of O-ring at 2 BOM positions, quantity 1x and 3x => total 4
- Example: Cable 0.5gmm at 2 BOM positions, 0.46m + 0.25m => 0.71m

Procedure "Marker" 3.5.4

- Select a BOM file and assign the columns. If multiple are selected, the first one is used
- Select the "Marker" button from "HOME" screen
- Select the desired "Marker" = Enable the checkbox
 - Note: Several marker can be selected in parallel
- Press the "GO" button
- The matching article lines are coloured in the colour from the marker
- Press the "Group view" button for a block view of the marked articles.

Via the "Group view" function, the articles are grouped according to the "Marking". The groups are showed at the end of the BOM display. The "Delete marker" button in the header deletes the markers in the BOM view.

3.5.5 Marker

3.5.5.1 Define

A marker is created as follows. Input:

- - "Name": Enter the name of the marker (can be renamed later)
- "Type": Select filter criterion:
 - Exact: "Value1" must exactly match the one from the selected BOM cell (text or numeric)
 - Contain: "Value1" must be contained in the selected BOM cell (text or numeric)
 - >: Numeric value in the BOM must be greater than / equal to value1
 - <: Numeric value in the BOM must be less than / equal to value1
 - Range: Numeric value in the range from value1 to value2
 - Assembly: Mark all assemblies
- Value1: Input value1, see "Type".
- Value2: Input value2, only type "Range"

Then press the "Save" key. The "Marker" appears in the selection.



3.5.5.2 Modify

Click on the marker with the mouse. Now change the parameters as described above. Finally, press the "Save" button.

3.5.5.3 Delete

Select the marker with the mouse and press the "Delete" button

3.5.5.4 Marking articles in the BOM

Each "Marker" has a small check box above its name. Activate one or more "Markers" via the check box and press the "GO" button. The relevant lines in the part list will be coloured in the colour of the marker. For a better view you can display all marked items in groups to the marker. To do this, press the "Group View" button. Pressing it again cancels the grouping.

3.5.5.5 Remove article marking in the BOM

Press the "Clear marker" button.

3.5.5.6 Export

Use the "Export" button to save the grouped result to an XLSX or CSV file. Each group starts with its heading. Assemblies are also marked in the "Level" column with the abbreviation AS for assembly. Finally, the statistics are inserted at the end of the export.

3.5.6 "Counting" sequence

- In the "Home" window, click with the mouse on the BOM file that you want to . display. Otherwise the first entry will be opened
- Select the "Marker" button in the HOME screen to view the marker screen .
- Assign the columns for "Count" and "Name" above the "Count" button .
- . Press the "Count" key
- Another window shows the result
- Press the Export button to output the result. .

3.5.6.1 How to count?

You determine what is counted via the two columns mentioned below:

- "Count" column: each occurrence of an identical entry in the column is counted. •
 - Example: Select the column with the component values, e.g. "0µ1" => counts all capacitors with this value
- "Name" column: the name is recorded for each occurrence, so that all names are finally shown .
 - Example: Select column with component names, e.g. " => "C1, C3, C7...", like "Device"

3.5.6.2 Export

Via the "Export" button you export the shown view

3.5.7 "Sum" sequence

Press the "Sum" button

Note: The column assignment from the HOME window is applied.

	Export		
No	Art ID	Title	Qt
25	7022340050	PCBA Controller	1
26	7022340051	PCB board LP32	1
27	7022340055	Controller AT9058535	1
28	7047130777	EEPROM 24C02 SOIC	1
29	7022352746	Resistor R11 1k 0805 1%	1
30	7118000049	Resistor R12 10k 0805 1%	2
31	7588003124	C2 100nF 50V	1
32	7688258002	Connector X12 TE 123212-12	1
33	7039818098	O-Ring 4,3 x 2,4mm 75 FKM	4
34	7022340478	Sealing housing PTFE	1
35	7022341054	PCBA holder Nylon 12mm x 3mm	3
36	7022341056	Power supply 230Vac / 5Vdc. 2A	2
37	7022341057	PVC Tube 8x50mm	1
38	7022341062	Screw M3x20 Din 7985 - Z	2
39	7022343753	Switch 1pol 250Vac	1
40	7258000200	Cable sheeted 3x0,75qmm PVC	0,8
41	7258000089	Cable single 0,5qmm PVC	0,7

Level Group: 0 *1AS **2AS ***3AS ****4AS ****5 ****5

Device LI-BAT3V, CAP02, CAP02, CAP02, CAP02, CAP02, CAP02, CAP02, CAP01, CAP01, CTRIM, RMS, ELK01, ELK01, ELK01, ELK01, ELK01, ELK01, TL431, Vecen

27C4001 628512, 74245,

MAX690 74138, 8583P, 7408.

74374, 74374, 74374, 74374

Count

Export

Value

LI-BAT3V 0µ1 10µ CTRIM,RM5 ELK01 10µ/160 TL431 V55PI 27C4001 628512 74245 74374 74374 74374 7438 8583P 7408

000

4. A	ssembly	or Co	amc	onent?
------	---------	-------	-----	--------

An icon in front of each line indicates whether the item is a component or an assembly :

	ΩA <mark>1</mark>	*1	7022
A Component	۸ <mark>۸</mark> 2	**2	7022
	xΛ <mark>β</mark>	***3	7022
Assembly	λλ <mark>4</mark>	****4	7022
and too childry	윾 <mark>5</mark>	****5	7012
	A 6	****5	7098

The icon is shown in screen "Compare" and "Marker". Note: Column "Level" required.

Setup 5.

Note: To save the changes, the "Save" button must be pressed when the input is finished.

5.1 General

- CSV delimiter: Set the column delimiter char for the CSV file format. The current separator is shown in the HOME screen in the footer. Often used: ';', 'Tab' or "Space"
- e.g. "..2" for level 2.
- Style: program interface in light or dark color
- Language: Sets the language of the program interface
 - Auto : The language is recognised by the country settings of MS-Windows.
 - -EN : Sets the language to English
 - DE : Sets the language to German .

5.2 Column width

Sets the width for the named columns in pixels for the "Where Used", "Compare" and "Marker" views.

- : Article level Level
- Art ID : Article number
- : Article title / name Art Text
- . Rev : Article revision
- Qty : Article quantity / length

5.3 Installation key

The key is needed to activate the software on your computer. Double-click the key to copy it to the clipboard for sharing (license request).

DEMO / License activation 6.

After downloading and installing, you can test PALIX as a DEMO version free of charge. In the test version all functions are available. Only the number of lines per BOM is limited. By purchasing the license from our web store, the software can be activated permanently.

Shop: https://palixshop-en.ibstute.de

	-	2	Column made	
.sv delimiter	space +		Key	Value
			Level	80
evel char		?	Art ID	100
			Art Text	200
ityle	Light	-	Rev	50
			Qty	50
anguage	EN	-		
Installation ke	y Copyitv	ia double clici	to clipboard	
Installation ke	y Copyity	ia double click	to clipboard	

Level char: Enter here the letter preceding the numeric level from BOM file! For SAP BOM exports it is e.g. a dot '.'.

Specification 7.

7.1 General

- MS-Windows 10/11 (32bit or 64bit) •
- PC with internet connection to activate your license or open the PDF from web .
- XLS / XLSX file handling: MS-Excel installed at your PC. Alternative use the CSV file format •

7.2 BOM file

If you load multiple BOM files, their formatting must be identical. This means for each file:

- The same number, sequence and meaning of the columns •
- Y Position of the "Header" with designation of the columns is at the identical position .
- Y Position "First line of BOM" is the same for all files .
- X Position of the first column is fixed at the first column or "A" at MS-Excel .
- Usage Level (optional): The article level is numeric .
 - Characters may be prefixed to visualise the level. The character must match the one from the program setup.
 - Example: Dots "..2" for a level 2, like a SAP export

Note: Decimal separators are MS-Windows language dependent. If necessary, change the language in PALIX Setup to change between ',' and '.'

7.2.1 XLS / XLSX

- BOM starts from row 1 or later •
- Between the start and the end of the BOM file there is no empty line .
- XLS / XLSX: The parts list is located on the first spreadsheet (Sheet).
- Optional: The line x-1 contains column headers •

7.2.2 CSV

- . BOM starts from row 1 or later
- Blank lines are allowed between the start of the BOM and the end •
- . Optional: The line x-1 contains column headings. An empty line is allowed between the headings and the beginning of the BOM

Sample CSV file, Palix HOME screen: "BOM starts at "8" and headings are enabled

Partlis	t			<=Row 1		
Exported from LP15A.sch at xx.xx.xxxx 10:44:06						
EAGLE Version x.xx Copyright (c)						
Part	Value	Device	Package Library Sheet	<= allowed		
BAT1	LI-BAT3	V LI-B	AT3V ER1/2AA UTIL			
C1	0μ1	CAP02	02P200QA DISCRETE 1			
				<= allowed		
C2	0μ2	CAP02	02P200QA DISCRETE 1			
C3	0µ1	CAP02	02P200QA DISCRETE 1			
C4	0µ1	CAP02	02P200QA DISCRETE 1			
C5	0µ1	CAP02	02P200QA DISCRETE 1			
C6	0µ1	CAP02	02P200QA DISCRETE 1			
C7	0µ1	CAP02	02P200QA DISCRETE 1			
C8	0µ1	CAP02	02P200QA DISCRETE 1			
C9	10p	CAP01	02P200OA DISCRETE 1			
C10	10p	CAP01	02P200OA DISCRETE 1			
C11	0µ1	CAP02	02P200QA DISCRETE 1			

- C12 0µ1 CAP02 02P200QA DISCRETE 1
- C13 CTRIM RM5 CTRIM RM5 RM5 UTIL 1
- C14 0µ1 CAP02 02P200QA DISCRETE 1

7.2.3 SAP BOM Export

Use the export via T-Code CS12 Multi-Level BOM. If required, add missing columns to the SAP view and thus also to the export, such as the "Rev Level" column.

8. PALIX Update PALIX Update

Update to the latest version for free via the app "PALIX" Update" function. You can find it via "MS-Windows" button from the task bar, then "All Apps / PALIX" or via MS-Windows App Search via "PALIX".

9. Troubleshooting

Issue	
Error: Level not numeric	C
	"
	C
	F
"Select Columns for" list empty on HOME screen	C
	ľ

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Web: https://palix-en.ibstute.de

Measure

Check the column assignment to the "Level" on the HOME screen f necessary, deactivate via double click.

Check value "first BOM line from" and change if necessary.

First BOM line contains column header AND first BOM line is set to '1" with "BOM line with header" set to OFF Check setting "First BOM line" and "BOM with column head..." on IOME screen