

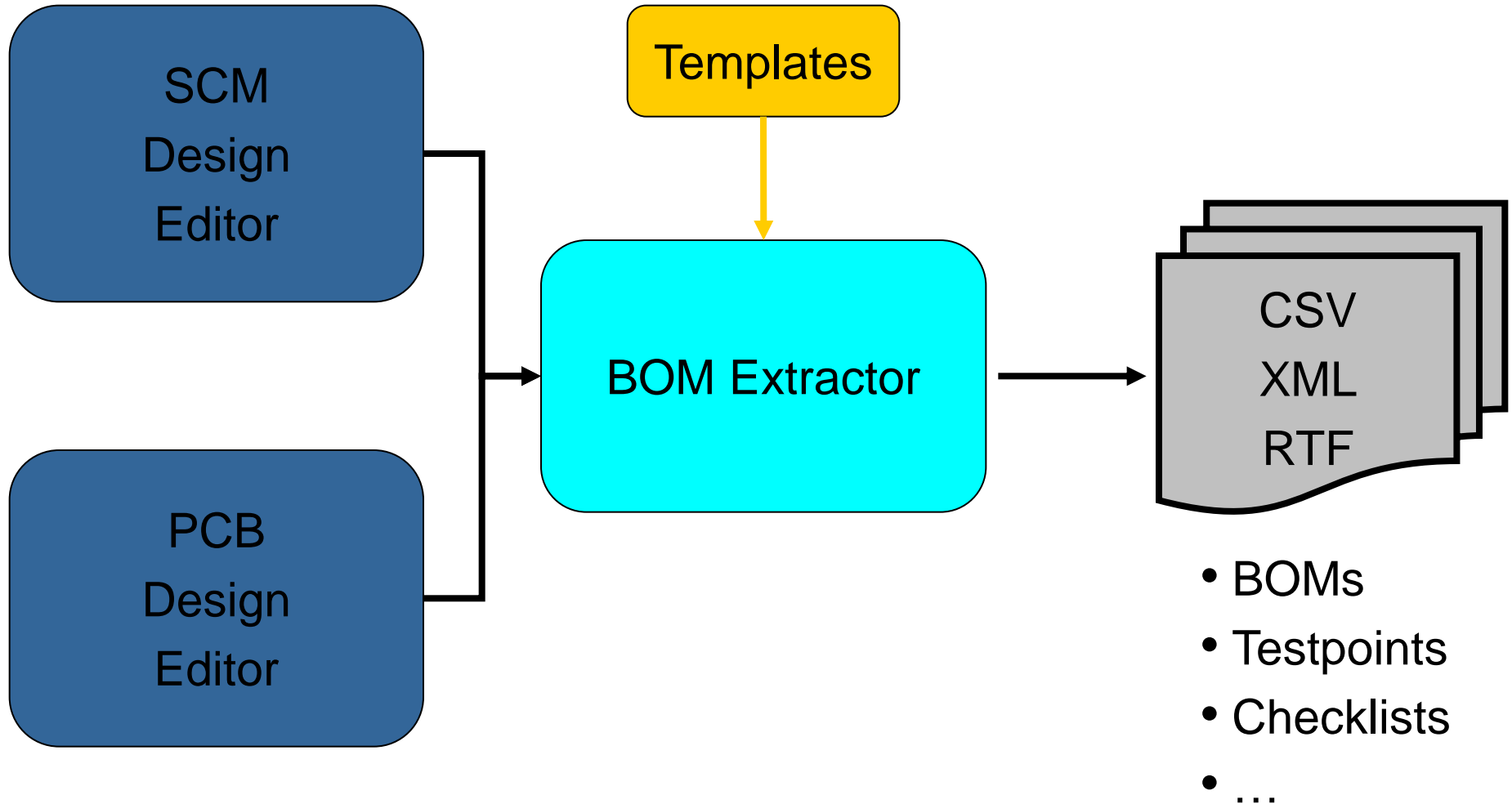
Presenter

Karl-Heinz Kluwetasch



# Introduction to CADSTAR BOM Extractor

- Introduction to CADSTAR BOM Extractor
- Functions Overview
- Summary and Conclusions



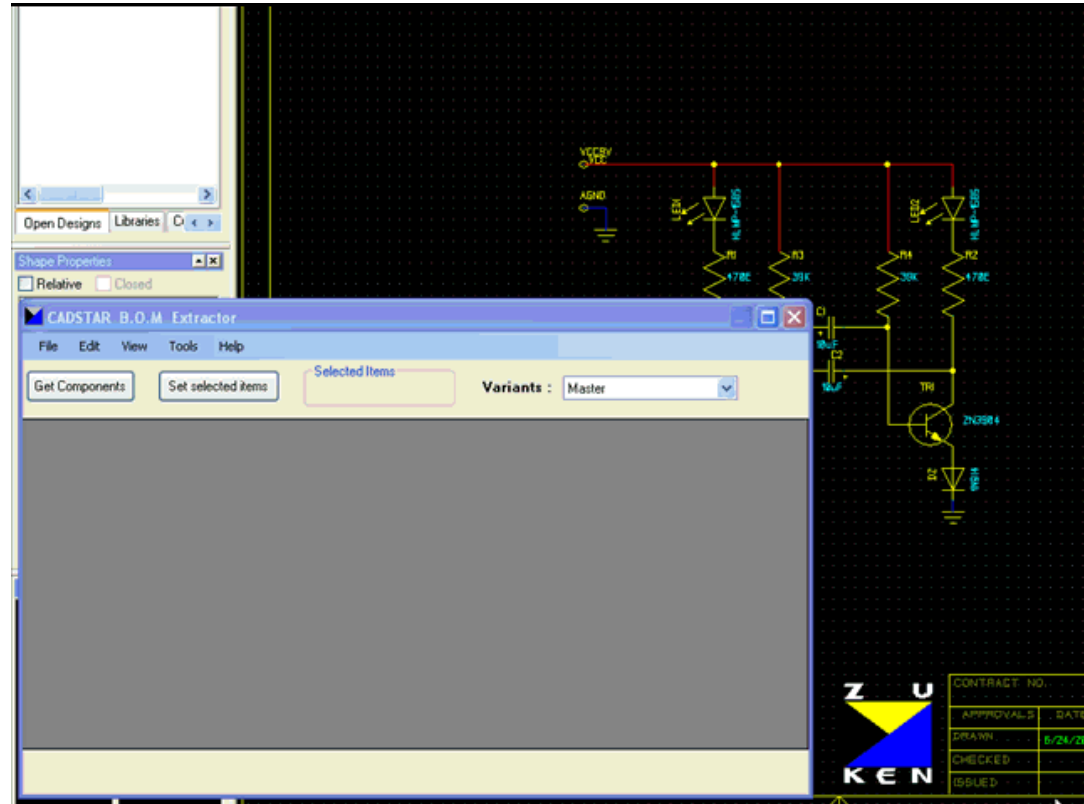
- Get easy all parts from current design or all sheets/ variants
- Detailed or accumulated lists
- Export data in CSV, XML,RTF
- Many different options to reduce export parts
- User defined automatical serial number
- Communication with CADSTAR Parts (cross probing,...)

## Detailed Function Overview

- Get Components
- Get selected items
- Column Chooser
- Exclusions
- Find in CADSTAR
- Item Properties
- Renumber Position
- Settings
- Schemata's (Templates)
- Export
- BOM Extractor Auto Run

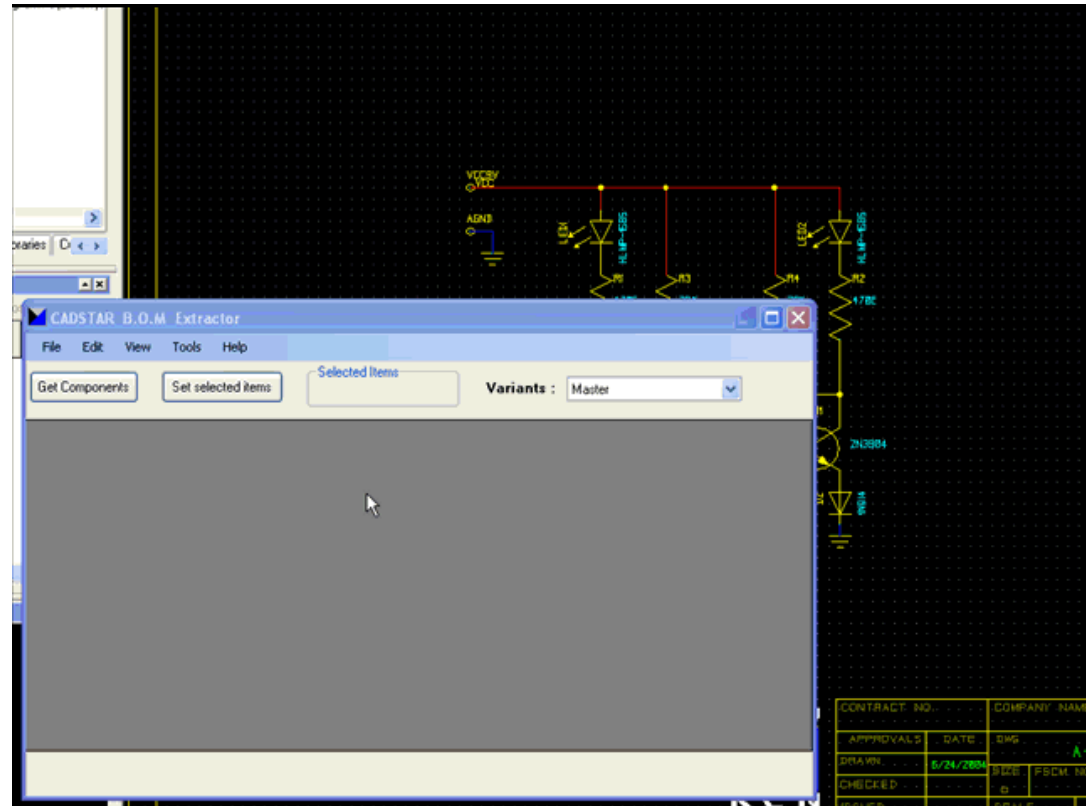
## Example: Get Components and Find Parts in Design

- Get all parts and their informations by one click
- Manipulate your view with column chooser
- Use many functions easy and fast by right hand mouse button like Find Parts



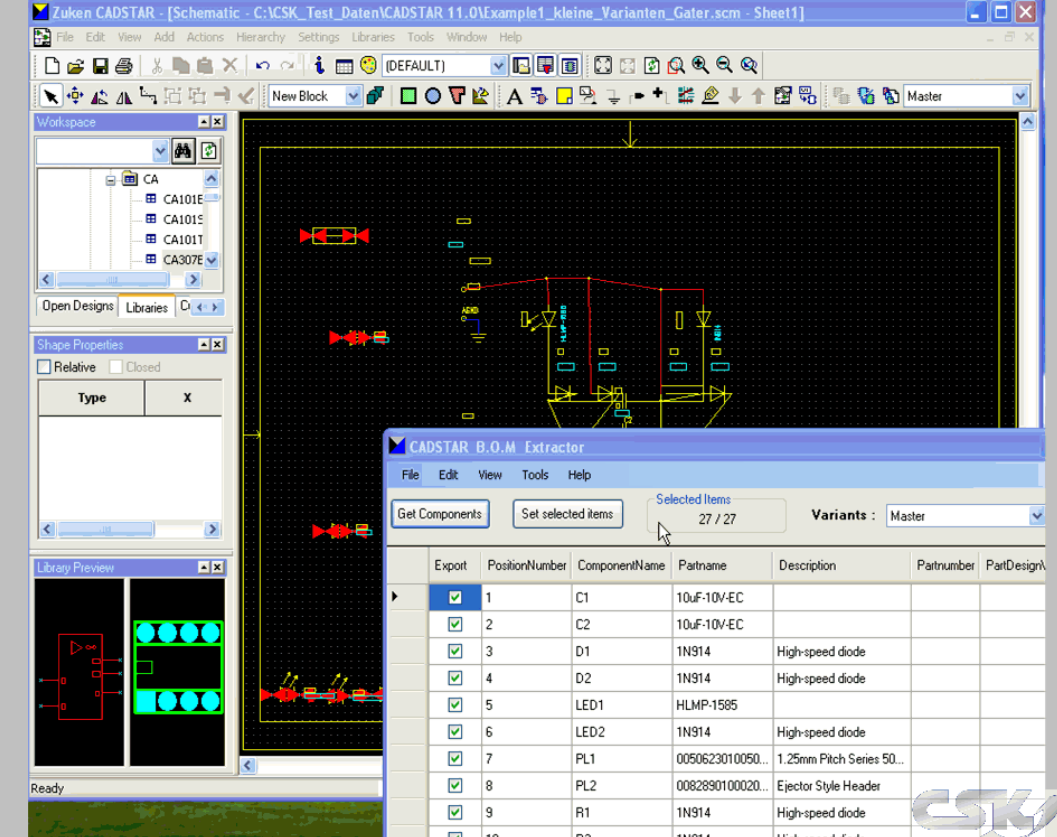
## Detailed listings vs. Accumulated listings

- Detailed listings are often used for automatic processing (BOM Management Systems,...)
- Accumulated listings are often used for manual processing (e.g. checklists)



## Get selected items

- Only checked parts will be exported to export-file
- Select parts in design you want to export
- Click „Get selected items“
- Only selected parts are checked in list



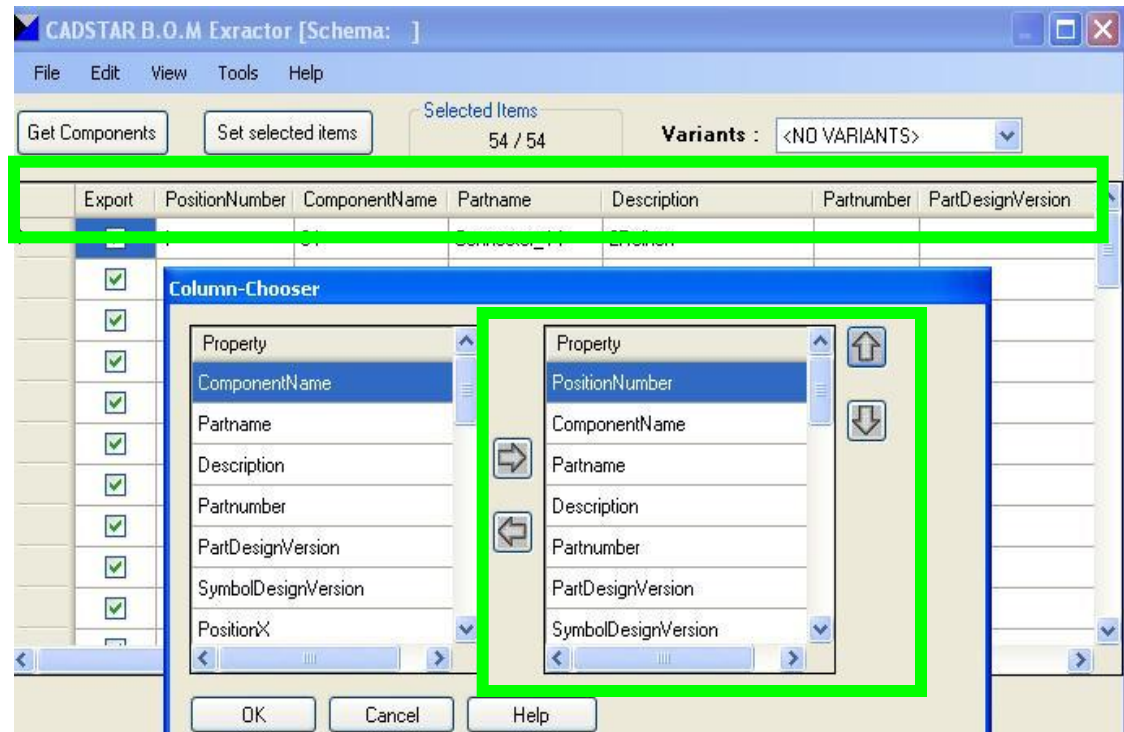
The screenshot shows the Zuken CADSTAR software interface. The main window displays a schematic diagram with various components highlighted in red. The CADSTAR B.O.M. Extractor dialog box is open, showing a table of components with checkboxes for selection. The 'Selected Items' count is 27 / 27. The 'Variants' dropdown is set to 'Master'.

Export	PositionNumber	ComponentName	Partname	Description	Partnumber	PartDesign
<input checked="" type="checkbox"/>	1	C1	10uF-10V-EC			
<input checked="" type="checkbox"/>	2	C2	10uF-10V-EC			
<input checked="" type="checkbox"/>	3	D1	1N914	High-speed diode		
<input checked="" type="checkbox"/>	4	D2	1N914	High-speed diode		
<input checked="" type="checkbox"/>	5	LED1	HLMP-1585			
<input checked="" type="checkbox"/>	6	LED2	1N914	High-speed diode		
<input checked="" type="checkbox"/>	7	PL1	0050623010050...	1.25mm Pitch Series 50...		
<input checked="" type="checkbox"/>	8	PL2	0082890100020...	Ejector Style Header		
<input checked="" type="checkbox"/>	9	R1	1N914	High-speed diode		
<input checked="" type="checkbox"/>	10	R2	1N914	High-speed diode		



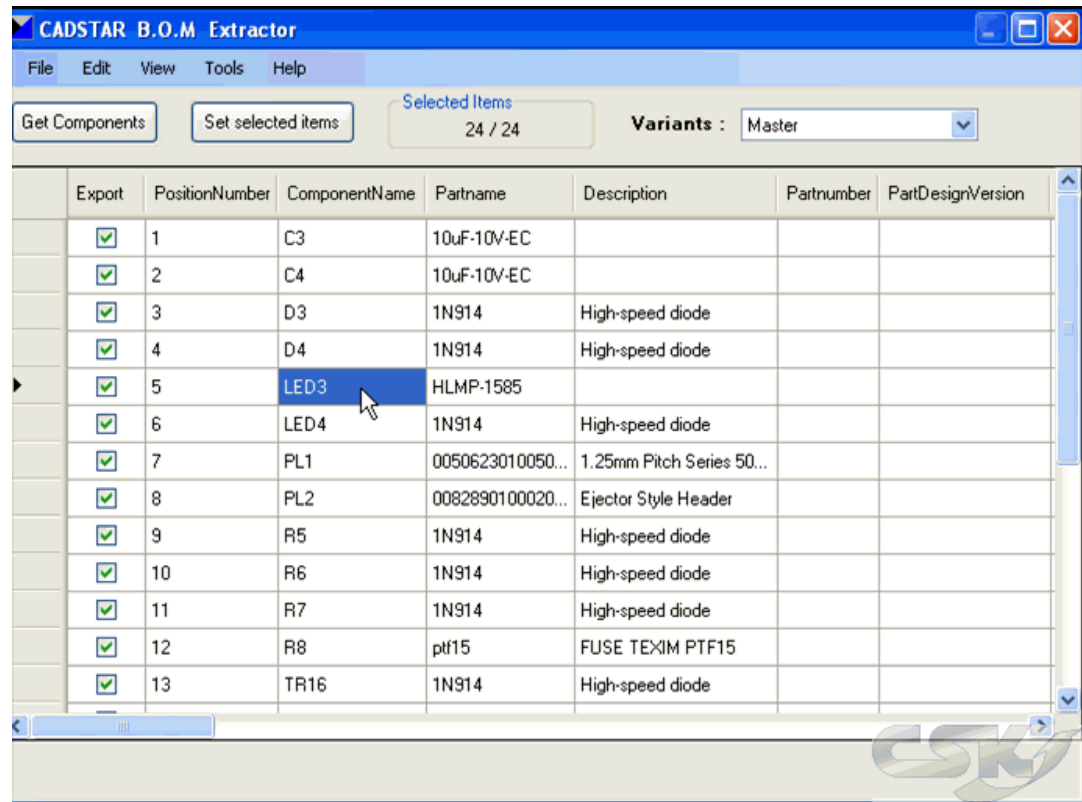
## Define personal views

- Easy customizing of your view and your export-file (What you see is what you get)
- Add and remove properties
- Change property positions



## Using of Exclusion

- Use Exclusion files for automatic deselection of parts
- Use CADSTAR Exclusion files or define your own files

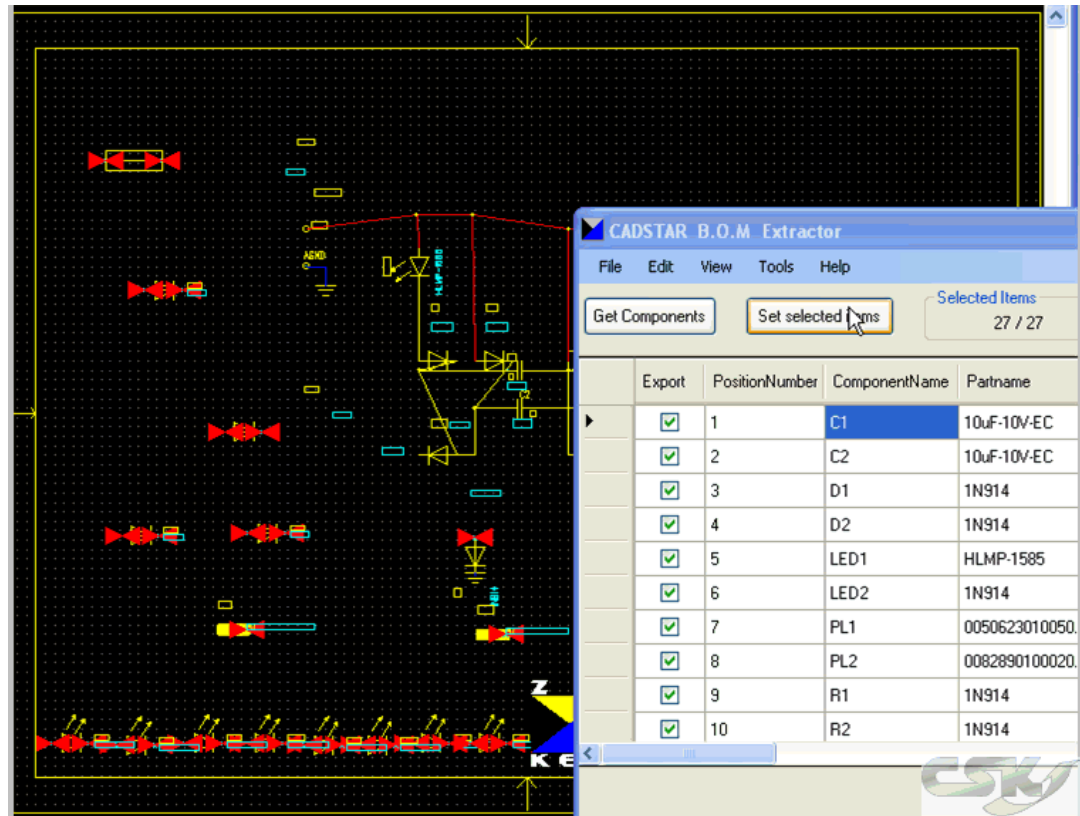


The screenshot shows the CADSTAR B.O.M Extractor window. The title bar reads "CADSTAR B.O.M Extractor". The menu bar includes "File", "Edit", "View", "Tools", and "Help". Below the menu bar, there are buttons for "Get Components" and "Set selected items", a "Selected Items" counter showing "24 / 24", and a "Variants" dropdown menu set to "Master". The main area contains a table with the following columns: "Export", "PositionNumber", "ComponentName", "Partname", "Description", "Partnumber", and "PartDesignVersion". The table lists 13 components, all with checked checkboxes in the "Export" column. The row for "LED3" is highlighted, and a mouse cursor is pointing at it.

Export	PositionNumber	ComponentName	Partname	Description	Partnumber	PartDesignVersion
<input checked="" type="checkbox"/>	1	C3	10uF-10V-EC			
<input checked="" type="checkbox"/>	2	C4	10uF-10V-EC			
<input checked="" type="checkbox"/>	3	D3	1N914	High-speed diode		
<input checked="" type="checkbox"/>	4	D4	1N914	High-speed diode		
<input checked="" type="checkbox"/>	5	LED3	HLMP-1585			
<input checked="" type="checkbox"/>	6	LED4	1N914	High-speed diode		
<input checked="" type="checkbox"/>	7	PL1	0050623010050...	1.25mm Pitch Series 50...		
<input checked="" type="checkbox"/>	8	PL2	0082890100020...	Ejector Style Header		
<input checked="" type="checkbox"/>	9	R5	1N914	High-speed diode		
<input checked="" type="checkbox"/>	10	R6	1N914	High-speed diode		
<input checked="" type="checkbox"/>	11	R7	1N914	High-speed diode		
<input checked="" type="checkbox"/>	12	R8	ptf15	FUSE TEXIM PTF15		
<input checked="" type="checkbox"/>	13	TR16	1N914	High-speed diode		

## Find in CADSTAR

- Easy and intuitive:  
Find Parts in  
CADSTAR designs



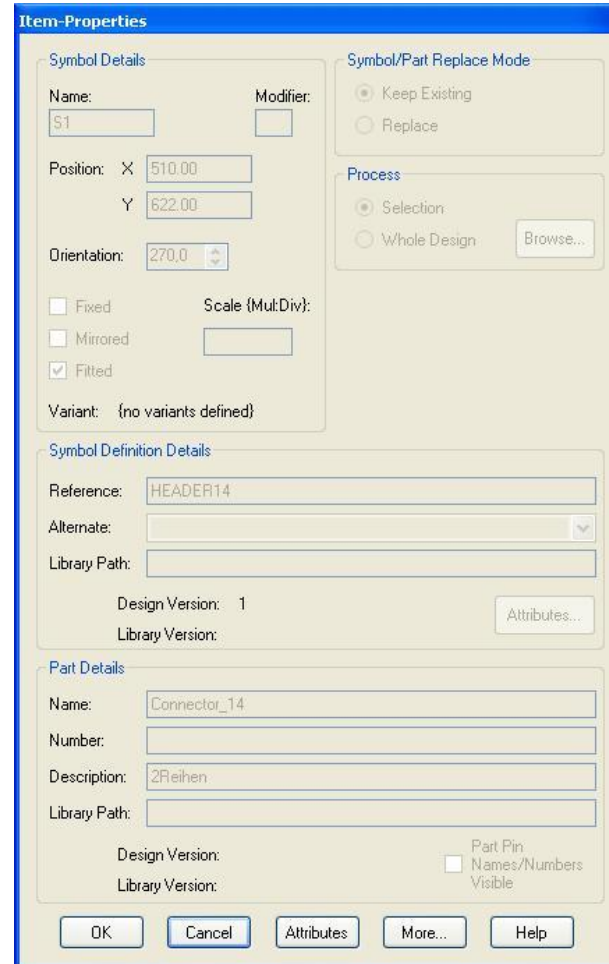
The screenshot displays the CADSTAR B.O.M Extractor interface. On the left, a circuit board layout is visible with various components highlighted in red and yellow. On the right, the 'CADSTAR B.O.M Extractor' window is open, showing a menu bar (File, Edit, View, Tools, Help) and two buttons: 'Get Components' and 'Set selected items'. Below the buttons, a table lists the extracted components. The table has four columns: 'Export', 'PositionNumber', 'ComponentName', and 'PartName'. The 'Export' column contains checkmarks for all items. The 'ComponentName' column is highlighted in blue, and the 'PartName' column contains the corresponding part numbers.

Export	PositionNumber	ComponentName	PartName
<input checked="" type="checkbox"/>	1	C1	10uF-10V-EC
<input checked="" type="checkbox"/>	2	C2	10uF-10V-EC
<input checked="" type="checkbox"/>	3	D1	1N914
<input checked="" type="checkbox"/>	4	D2	1N914
<input checked="" type="checkbox"/>	5	LED1	HLMP-1585
<input checked="" type="checkbox"/>	6	LED2	1N914
<input checked="" type="checkbox"/>	7	PL1	0050623010050.
<input checked="" type="checkbox"/>	8	PL2	0082890100020.
<input checked="" type="checkbox"/>	9	R1	1N914
<input checked="" type="checkbox"/>	10	R2	1N914



## Item Properties

- Open Item Properties Window in BOM Extractor
- Simultaneously working in BOM Extractor, CADSTAR and opened Item Properties window



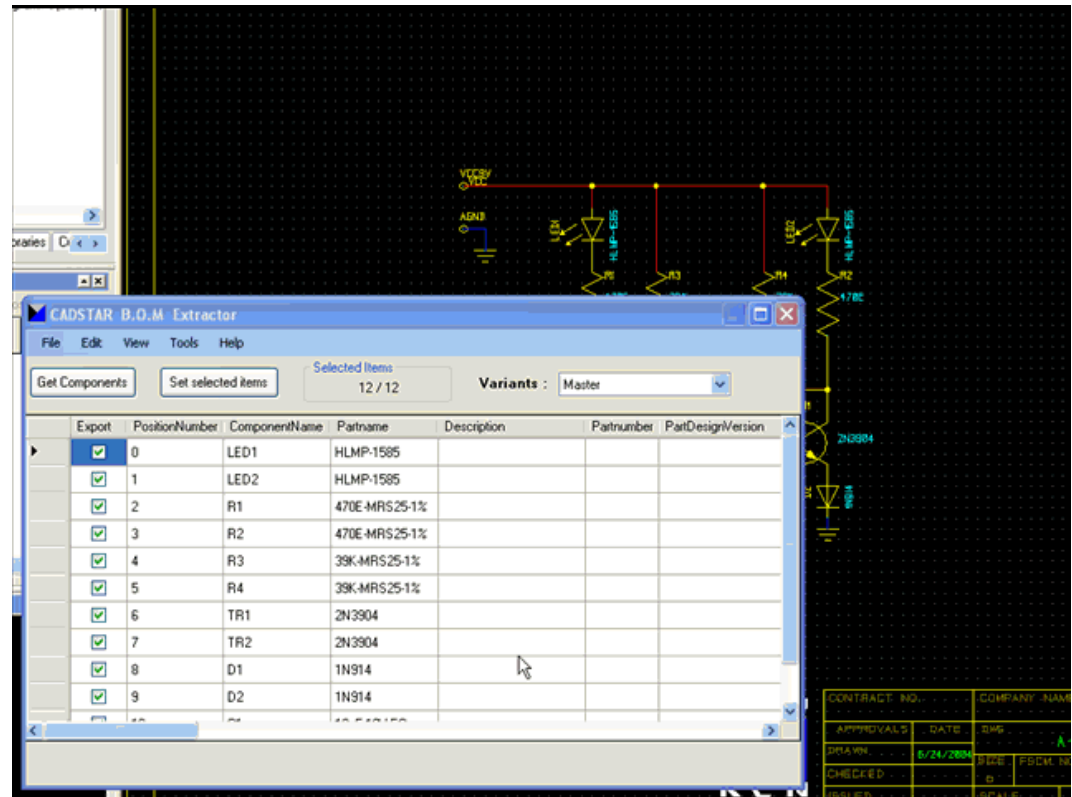
The screenshot shows the 'Item-Properties' dialog box with the following sections and fields:

- Symbol Details:**
  - Name: S1
  - Modifier: [Empty]
  - Position: X: 510.00, Y: 622.00
  - Orientation: 270.0
  - Fixed:
  - Mirrored:
  - Fitted:
  - Scale (Mul.Div): [Empty]
  - Variant: {no variants defined}
- Symbol/Part Replace Mode:**
  - Keep Existing:
  - Replace:
- Process:**
  - Selection:
  - Whole Design:
  - Browse... button
- Symbol Definition Details:**
  - Reference: HEADER14
  - Alternate: [Dropdown]
  - Library Path: [Text]
  - Design Version: 1
  - Library Version: [Text]
  - Attributes... button
- Part Details:**
  - Name: Connector\_14
  - Number: [Text]
  - Description: 2Reihen
  - Library Path: [Text]
  - Design Version: [Text]
  - Library Version: [Text]
  - Part Pin Names/Numbers Visible:

Buttons at the bottom: OK, Cancel, Attributes, More..., Help.

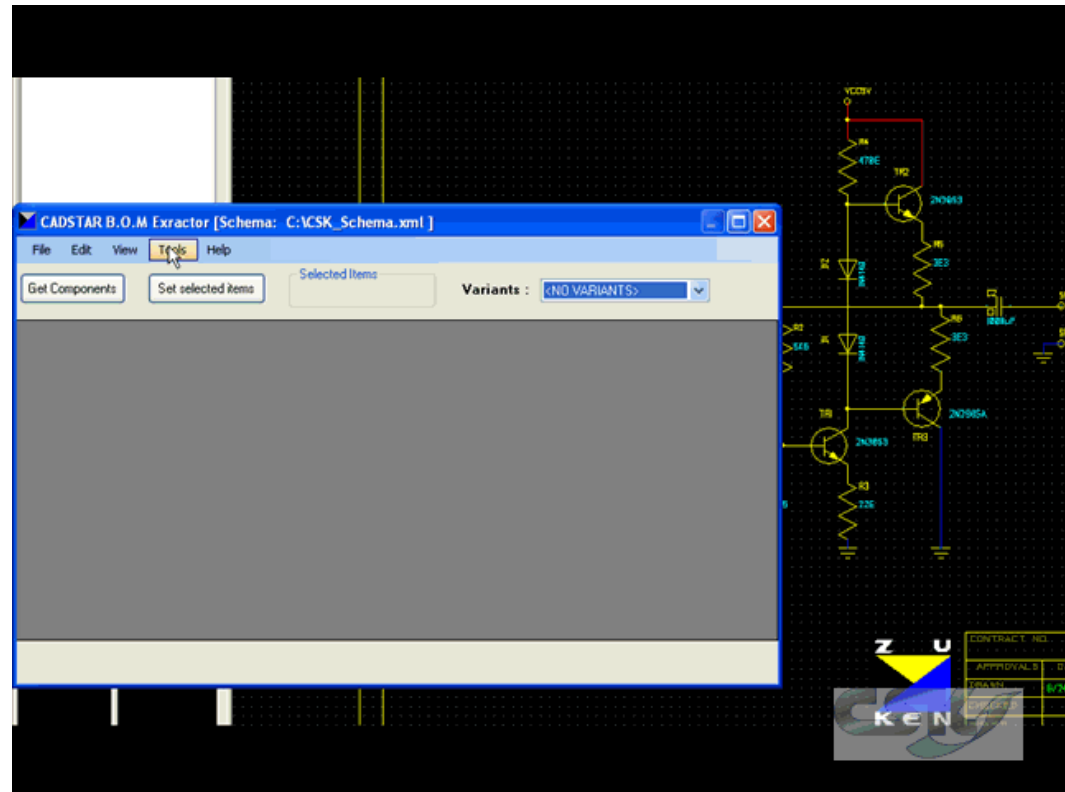
## Renumber Position

- Define the initial value and step size
- Reorder the listing and renumber the position number



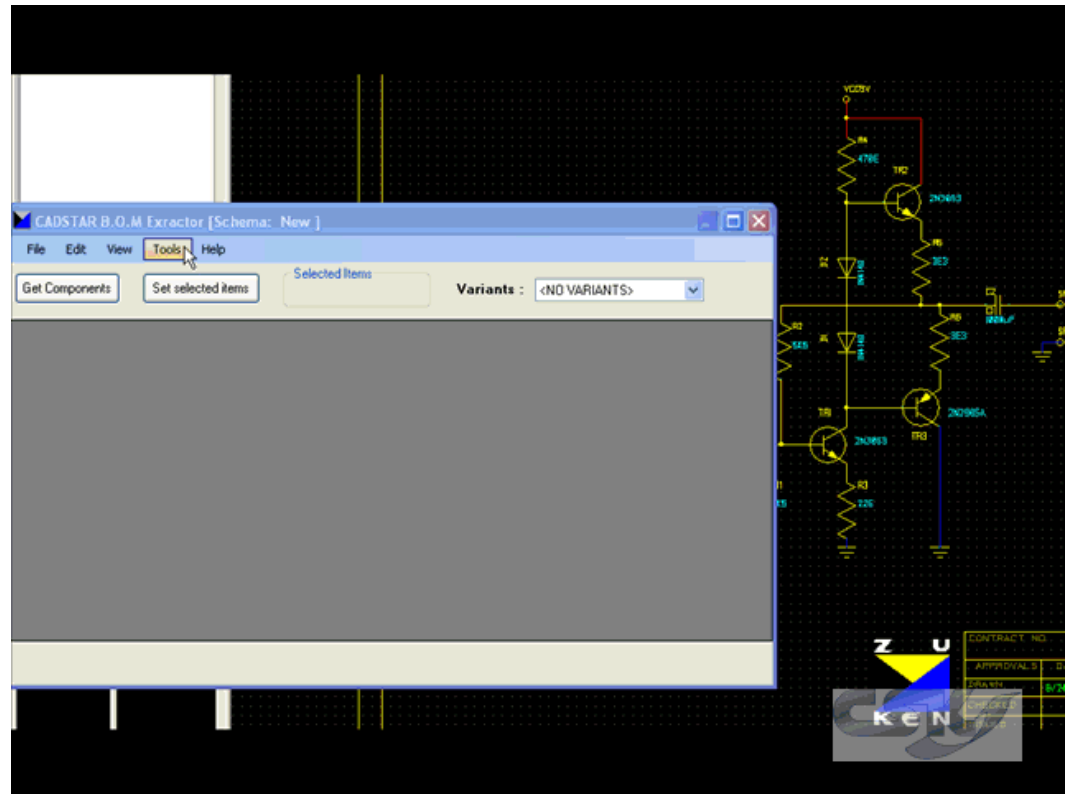
## Settings

- Customize Import and Export settings to your requirements
- Optimize performance and application behavior by settings



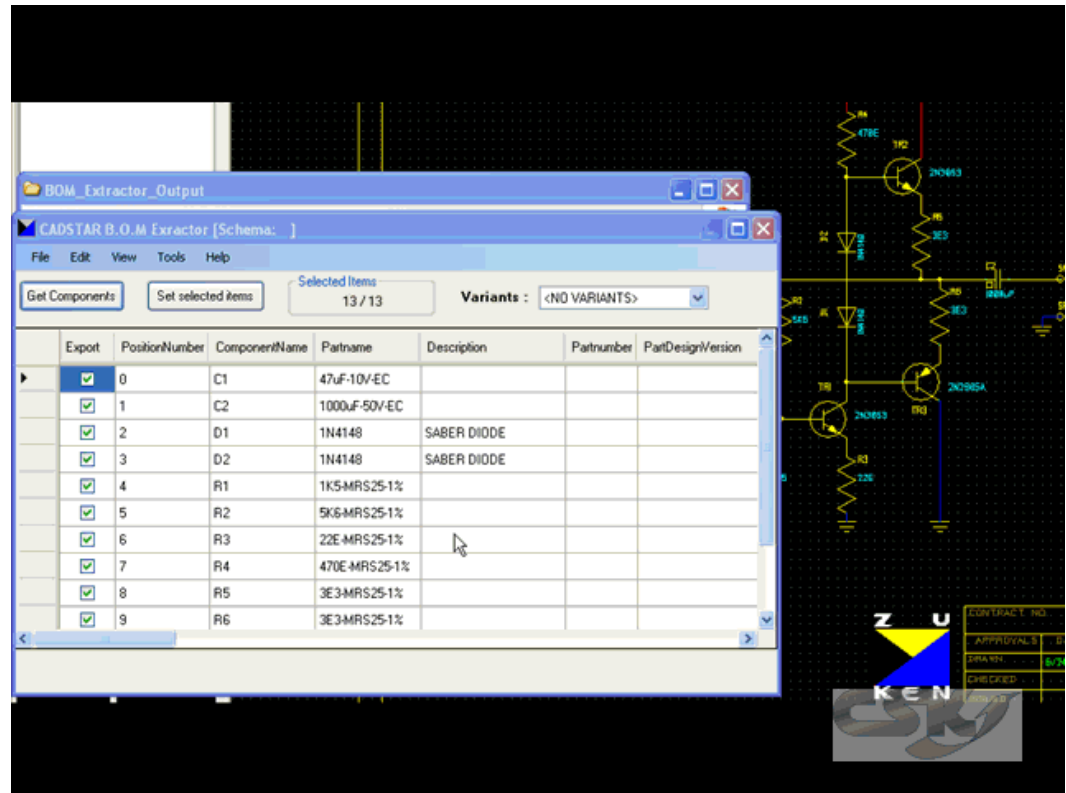
## Schemata (Templates)

- Easy reusing of settings by using Schemata (Templates)
- Save all settings, views and file paths in one schemata
- hand schemata out to other users



## Export Configuration

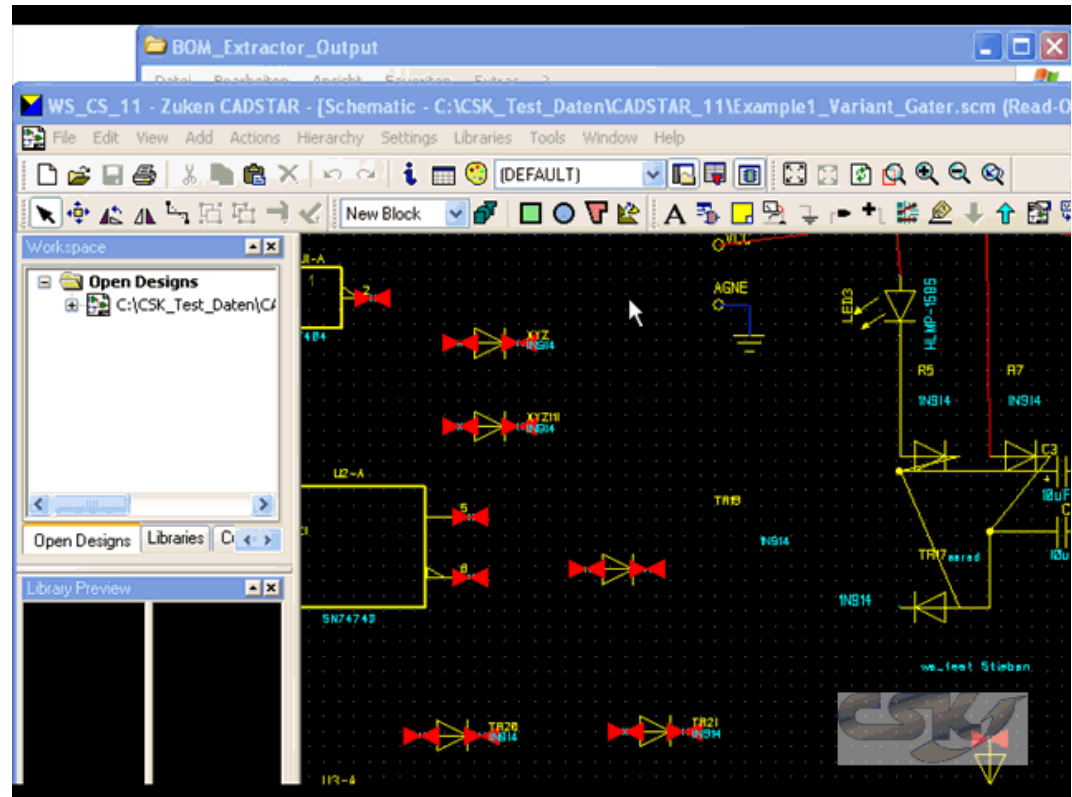
- Easy using by define default export settings
- Export checked parts in CSV/ XML/ RDF files
- What you see is what you get





## Autorun

- Integrate BOM Extractor into CADSTAR in different levels
- Deepest integration: click a button in CADSTAR → Get BOM
- Configure BOM Extractor by arguments in CADSTAR



- Creating Parts lists with correct & complete info in different formats
- Get parts lists during the whole design process
- Customize Import and Export settings to your requirements
- Comfortable Integration into CADSTAR in different levels
- Save time by reusing of schemata (templates)

# Thank You for your attention



**For further information**

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# Introducing to Karl-Heinz Kluwetasch

Karl-Heinz Kluwetasch lives in Altenholz, Germany, 60 miles north of Hamburg. His working career began at the company Computer-Partner as a CADSTAR VAR in the year 1987 in Kiel.

In this organization he established and lead the sales department. In the year 1992 he became co-partner of the start-up company Computer Information Systems Kiel GmbH, where he distributed hard- and software as well as IT services.

He found his own company, CSK, a bureau for software-, CADSTAR distribution and development in the year 1994.

The company CSK is one of Zuken's preferred partners and CADSTAR distributors and increases constantly every years.

