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How to use the Component Editor of the PCB- Investigator

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Component Editor Plug-In

The Plug-In consists of three tab-pages:

- the first to edit everything about components (e.g. change an attribute or delete a property)
- the second one to create new components (by click or selection) and handle Package-Import and -Export
- and the third one to edit everything about a package (e.g. Outline, Pin, Attributes)

'Edit Components'-Tab

The screenshot shows the 'Edit Components' tab with the following callout boxes:

- Delete all the selected components
- Clone all the selected components
- Apply all the changes made on the selected components
- View and edit all the component attributes
- View and edit all the component properties
- View the most important package attributes
- Activate/Deactivate the update of the view when changing the selection
- Activate/Deactivate the Drag&Drop functionality
- Add a new component property
- Add package definition from selected elements
- Show the number of selected components
- Open a dialog to edit this property (see page 6)

The 'Component Attributes' section contains the following data:

Component Information	
Color	<input type="checkbox"/>
Height	0
LayerName	comp_+_top
PartName	
Reference	RESET_3

The 'Color' section contains the following text:

Color
The color in PCB-Investigator Image.

The 'Component Properties' section contains the following data:

Property	Value	Units	Icon
Type II	electro-mech		✗
Mount Type	SMT		✗
123 Maximal Height	45,000	mm	✗
abc order_number	'1042536987'		✗

The 'Package Attributes' section contains the following data:

Attribute	Value
Package_Name	package_Reset
Package_Height	0
InsertCenter_X	0
InsertCenter_Y	0
Pin_Count	4
Pitch	63
cad_local_footprint_change	yes

'Add Components'-Tab (1)

Save the selected package to the library

Delete the selected package from the library

Show/Hide the dimensions of the selection

Save all packages to the library

Load all the packages from the library

Activate/Deactivate the analyse of the text from the selection

Add package definition from selected elements

Choose a unique reference for the new component

Generates a unique reference for the new component (choose a fix text and the range for the automatically added numbers)

Select the layer where to place on the component

Activate/Deactivate a filter to get all the packages with the same pin count as the selected elements

Component Editor

Edit Components Add Components Edit Package

Layer: comp_+_top

Reference: Fix newComponent_1 Auto r20

Package: Auto Filter

Package Name	Pin Count	SizeX	SizeY	Pitch
Geben Sie Text hier ein				
package_Reset	4	5,500	3,000	1,600
package_D	2	3,048	1,778	1,651
package_C_small	2	0,864	2,134	1,016

Package Infos:

Package Name: package_D
Pin Count: 2
SizeX: 3,048 mm
SizeY: 1,778 mm
Pitch: 1,651 mm

package_D

Add Components

Create Component by Click

Place Component to Selection Center

Edit new Components immediately

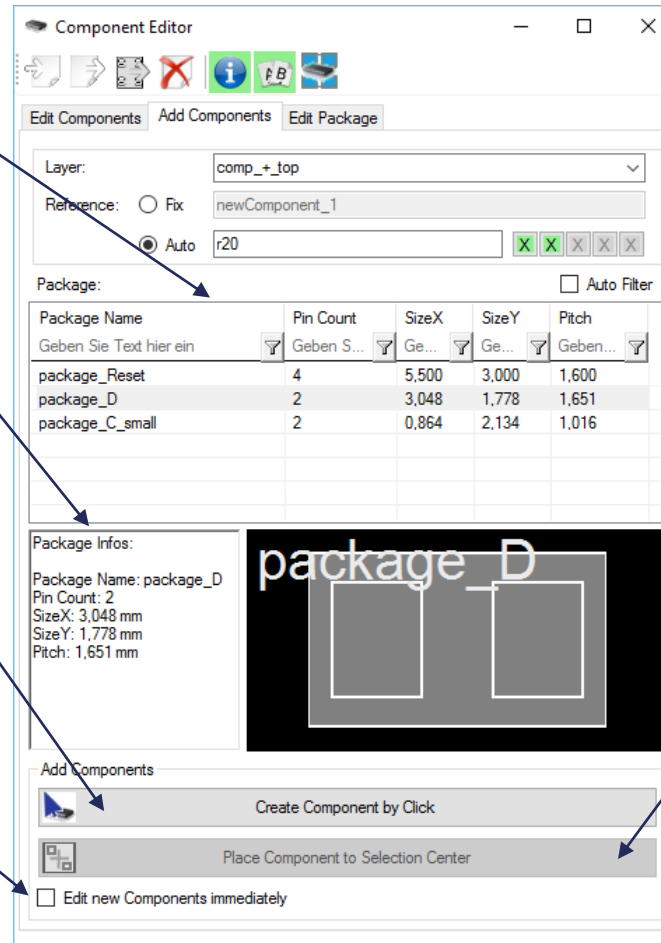
'Add Components'-Tab (2)

View all the packages and use the filter to search for a special package

View the most important package attributes

After choosing the layer, the reference and the package, you can create a new component by clicking on the layout

By activating this Option, the dialog will switch to the 'Edit Components'-Tab after the the creation of a new component



Preview of the selected package

After choosing the layer, the reference and the Package and selecting at least one element, you can create a new component that will be placed in the center of the selection

'Edit Package'-Tab

The screenshot shows the 'Edit Package' tab in the Component Editor. The interface includes a menu bar with 'Edit Components', 'Add Components', and 'Edit Package'. Below the menu bar, there is a dropdown menu for 'Edit Package' set to 'package_Reset'. The main area is divided into sections: 'Information' (Bounds, Height: 0, Name: package_Reset, Pitch: 63), 'Transformation' (InsertPoint_X: 0, InsertPoint_Y: 0), and 'Name' (Package definition name). Below these are several properties with checkboxes and dropdown menus, such as 'CADStar Pad Change', 'No Components on Other Side' (pins_only), and 'pin_length' (4,120). A '+ Add package property' button is visible. At the bottom, there is an 'Edit Package Outline' button.

Annotations and their corresponding actions:

- Choose a package from the list of all packages (points to the 'Edit Package' dropdown menu)
- Add package definition from selected elements (points to the 'Add Components' menu item)
- Choose the package of the selected component (points to the 'package_Reset' dropdown menu)
- Show and edit all the package attributes (points to the 'Information' and 'Transformation' sections)
- Show and edit all the package properties (points to the 'Name' section)
- Delete a package property (points to the red 'X' icons in the property table)
- Add a new package property (context menu) (points to the '+ Add package property' button)
- Shows the type of the property (points to the 'CADStar Pad Change' checkbox)
- Edit the package outline in a new PCB-Investigator window (points to the 'Edit Package Outline' button)

'Edit Property'-Dialog

The image illustrates the 'Add Component Attributes/Properties' dialog box in three states, with callout boxes explaining key features:

- Dialog to add a new property or attribute:** The first screenshot shows the dialog with the 'Property/Attribute' dropdown menu open, displaying a list of attributes. The 'Display Name' checkbox is checked.
- Option to show the Display Name or the real Name of the attribute in the list:** This callout points to the 'Display Name' checkbox, which allows users to toggle between showing the attribute's name or its display name in the list.
- Choose an attribute of the list of all attributes:** This callout points to the 'Allegro Height ID' attribute selected in the list.
- Or add a property by adding a name:** This callout points to the empty 'Property/Attribute' dropdown menu, indicating that users can also add a new property by manually entering a name.
- Choose a value for the property or attribute:** The second and third screenshots show the 'Value' field. The second screenshot shows the value '1546798' entered for 'Allegro Height ID'. The third screenshot shows the value '100' entered for 'Allegro Height ID'.

Software Portfolio

Useful Links:

PCB-Investigator
www.pcb-investigator.com

PCBi-Physics
www.PCBi-Physics.com

Native Board Import (3D Interface to CATIA, SiemensNX, SolidWorks, SolidEdge)
www.sts-development.biz

GerberLogix
www.gerberLogix.com

Online Gerber Viewer
www.Gerber-Viewer.com

Software Development, CAD Converter, data connection
www.easyLogix.de

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