## Inhalt

**Release notes** ........................................................................................................................................... 4
**New functions and features** .................................................................................................................. 4

**Introduction** ........................................................................................................................................... 5

**Installation guide** ................................................................................................................................... 5
**How to** ................................................................................................................................................... 5
**System requirements** .............................................................................................................................. 5

**Startpage** .................................................................................................................................................. 6

**START** .................................................................................................................................................... 6
  **New project** ........................................................................................................................................... 6
  **Open project** ......................................................................................................................................... 6
  **Fast Delivery Service** ............................................................................................................................ 7
  **Select sub-project by root component** .................................................................................................. 7

**ECAD** ....................................................................................................................................................... 8

**SETTINGS** .............................................................................................................................................. 9

**Working in the WMC** ............................................................................................................................... 10

**Toolbar** .................................................................................................................................................... 10
  **Assistants** ............................................................................................................................................ 10
  **Functions** .............................................................................................................................................. 13
  **Modes** .................................................................................................................................................. 15
  **View** .................................................................................................................................................... 16
  **Order** ................................................................................................................................................... 16

**Product finder** ......................................................................................................................................... 18
  **Search** .................................................................................................................................................. 18
  **Customization** .................................................................................................................................... 19
  **Article placement** .............................................................................................................................. 19
  **Article information** ............................................................................................................................ 19

**Project tree view** ..................................................................................................................................... 19

**3D workspace** ......................................................................................................................................... 20
  **Project overview** ................................................................................................................................ 20
  **Context menu** ...................................................................................................................................... 21

**Output message box** ............................................................................................................................... 22

**File menu** ................................................................................................................................................ 22
  **Project properties** .............................................................................................................................. 23
  **Recent documents** .............................................................................................................................. 23
  **Print project documentation** ............................................................................................................. 23
  **Interfaces** ............................................................................................................................................ 23
  **Settings** .............................................................................................................................................. 24
  **Help** .................................................................................................................................................... 24
Release notes

WMC Version V11.180.0.9014
Release Date: 10.05.2021

New functions and features

New Assistant functions

- PE terminal option for transformer terminal blocks
- New connection technologies for transformer terminal blocks
- Several improvements for transformer terminal blocks
- New article variants for OMNIMATE 4.0 assistant

General

- Bus bar placement function and verify
- Link direct labeling terminals to direct labeling end brackets
- Improved supply parts overview and handling
- Unmount rail from enclosure function
- Startpage improvements for Fast Delivery Service

ECAD

- ECAD import settings for marking of end brackets
- EPLAN 2D: Re-export end brackets positions
- EPLAN: Improved BMK handling
- ECAD marking for direct labeling terminals
- ECAD change orientation impacts accessory placement

Bugfixes

- Sales region check for old projects
- Verify autosolve for custom-length terminal rails
Introduction

<table>
<thead>
<tr>
<th>Facts</th>
<th>Customer Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Software for all Weidmüller products (Free download)</td>
<td>Create customer specific solutions</td>
</tr>
<tr>
<td>Over 10829 Weidmüller products available (Relational knowledge)</td>
<td>Rail components, terminals, electronic, remote</td>
</tr>
<tr>
<td>Engineering with functional and application assistants (Application</td>
<td>Pre-defined applications and assortments,</td>
</tr>
<tr>
<td>knowledge)</td>
<td>template projects collision detection &amp; auto</td>
</tr>
<tr>
<td>Integration with leading ECAD Systems (u.a. EPLAN P8, Zuken E3)</td>
<td>completion, define marking and connections</td>
</tr>
<tr>
<td>Integrated request offer with assembly services (Industrial Automation)</td>
<td>Efficient digital engineering (“From circuit</td>
</tr>
<tr>
<td></td>
<td>diagrams to terminal rails with marking and</td>
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<tr>
<td></td>
<td>fitting enclosure”)</td>
</tr>
<tr>
<td></td>
<td>Pre-assembled terminal rails with enclosures in</td>
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<tr>
<td></td>
<td>a fast delivery service</td>
</tr>
</tbody>
</table>

Installation guide

How to

Download the latest setup from our Weidmüller website and run it to install the Weidmüller Configurator to your system. After the installation there will be a desktop icon and an entry in the start menu. To start WMC double-click the desktop icon or search for Weidmüller Configurator in your start menu. The WMC will automatically check for any updates on every start up.

System requirements

- Microsoft Windows 10 64bit, Microsoft .NET framework 4.7 or higher
- Intel Core i3 or higher
- 4GB RAM, 10GB HDD
- Direct-X 9 graphics or higher, 24" monitor with 1920x1080
- Web access for installation/ updates/ full program functionality
Startpage

The Startpage of the WMC shows all different options for starting a new or open an existing project. It also gives the option to start with an ECAD import or change the general settings of the WMC.

START

New project

The start with New project shows you all possible articles to start a new project with, not filtered by the product type.

Open project

With Open project you can choose an existing WMC project from your computer. Besides you can choose a project from your Recently used documents.
Fast Delivery Service

To start a project within our Fast Delivery Service to benefit from this service you can choose between different Service Levels either for assembled terminal rails or enclosures.

The Fast Delivery Service will be explained in detail in an additional section in this manual.

Select sub-project by root component

This section gives you all possible root devices to start your new WMC project with. It is possible to choose a general start with either a terminal rail or an enclosure, directly with one of our Application assistants or with a template project.

Our Application assistants will support you to find the best fitting solution for your demands by only answering technical questions regarding your application.

The Application assistants will be explained in detail later on in this manual.

We also already implemented some template projects in the WMC to give some samples of projects which could be created with the software.
ECAD

The WMC comes with plugins to connect with ECAD Tools for exchanging data. Zuken E3.series and EPLAN are supported by now.

To start a project directly from an ECAD software or to install an interface these options can be found in this section.

Further details on ECAD Interface are described separately in this manual.
SETTINGS

The settings section gives all possible options to adjust the WMC to the personal use like user interface language, measurement unit or the sales region.

If there are any problems regarding the user interface of the WMC it is possible to reset this here.
Working in the WMC

The main view of the WMC is structured in different sections. The toolbar, the Product finder, the 3D workspace and the Output message box.

Toolbar

The toolbar gives shortcuts to important functions to help with the assembly of your project.

Assistants

**Application**

Our Application assistants help you to create solutions for special applications quick and easy by answering technical questions to your requirements. The assistants will automatically build up a solution based on this information.
Labelling and markers
With the Labelling and markers assistant you can easily add markers to your configuration and edit the labels.

The assistant is separated in different sections.

At the top left you can see a 3D preview of your project including the markers and labels. The selected marker position from the grid is highlighted.

At the top right position, you can select the marker type for your selected positions in the grid. The functionalities for *Automatically generate labels* and *Automatically adjust font size* can help you with your configuration.

The grid shows an overview of all possible positions for markers in the project. Each white cell is a possible position to place a marker on. You can select these cells and they will be highlighted in your preview. The grid can be grouped by the different types of components by choosing one of the tabs above.

You can use copy and paste to edit the labels. Besides it is possible to automatically continue existing schemes like you know from excel (1,2, 3…).

To create a line break use the shortcut ALT+ENTER in a cell.

The lower section of the assistant shows all options for editing labels.

When all marking steps are done the OK button will transfer everything into the project.
Wire end ferrules
With Wire end ferrules you can add end ferrules to existing wire connections.

The assistant is separated in a 3D preview, a list of all wires included in your project and a button for *Automatically add wire end ferrules*.

You can either edit each wire by opening the properties with a double click or use the automatic function and choose the type of the end ferrules.

If you are ready with the editing you can save the information by clicking OK.
Verify
The verify assistant either checks the complete project or current tab for any upcoming problems in the assembly.

The window gives you an overview of your project and a list of all verify results. Components with any problems are marked in the 3D preview.

To solve problems, you can either go through each entry in the list manually or use the Auto-Solve function for an automatic solution.

It is possible to exclude the separator and/or the end bracket verification in case that you need this for your assembly. This setting extends the use cases for our Fast Delivery Service.

Functions
Supply parts
Supply parts are articles you want to add to your project without placing them physically in your configuration. This can be useful for accessory or replacement parts.

You can choose your supply parts from all articles included in the WMC. Supply parts are added to your bill of material.
Add wire connection
With this function you can add wires to the articles in your project. You can either choose a starting and ending point or you just set a starting point and press the Enter button.

Subsequently you can set the properties of wires like colour, type, cross section, length and end ferrules.

After you are done, you can save the information by clicking OK.

Add cross-connector
You can easily add cross-connectors to your project by using this functionality. After activation of this function the articles in the view of the 3D workspace changes to transparent and each possible cross-connection point is shown as a little grey square.

You can now choose the starting and ending point of your connection and the specific article, you want to use for this cross-connection.

Each pin of your cross-connector which is connected is shown as a green dot. You can break out pins by double-click on this dot and it changes its colour to red.

Please note that there are some special types of cross-connectors which may can be handled slightly different like stepdown bridges or non-breakable connectors.

Add dimension
You can add user specific dimensions to the view of your assembly which can also be shown at the documentation exports. To add a new dimension, use the Add dimension function and choose a starting and an ending point.

Please note that it is only possible to choose specific points of the articles. The position is shown by a little green dot.

You can select, rearrange and delete manually created dimensions in the 3D workspace.
Add busbar
You can add bus bars as accessory between some articles like bridges. This function will show you all possible fixing points for a bus bar.

You can choose the starting and end point of your connection and place a bus bar.

Modes

Selection
In the Selection mode you can select one or several articles in your assembly with your cursor. Selected articles are marked orange in the workspace.

You can use different combinations to select multiple articles. You can either mark an area by click and hold the left mouse button or use the combination of STRG+ left mouse button (multiple articles) or SHIFT+ left mouse button (from article to article).

You can rotate the view of the 3D workspace in the selection mode by clicking and hold your middle mouse button and move with the right mouse button.

Rotation
In the Rotation mode you can use your left mouse button to rotate the view in the 3D workspace. To move the view, use your right mouse button and to rotate in 2D use your middle mouse button.

Transparency
The Transparency mode can set different types of components as transparent which makes it possible to look through the articles and see accessory, markers and cross connectors for a better overview.

Articles which are not checked in the dropdown are set as transparent.
View

There are different pre-defined views and display options in the WMC to simplify the navigation and work in the 3D workspace.

Please note that additional information can only be displayed in 2D view positions (Front, Bottom, Left, Back, Top, Right).

Order

With the Request button you can send your complete project to Weidmüller to get a quotation. You must fill in your contact data and choose your preferred delivery type.

You can choose between a pre-assembled project or individual parts with and without the terminal rail as a delivery type. If you are registered for the Fast Delivery Service you can choose the service level you want to use for your request. Otherwise please select Manual offer which will lead to a standard quotation of your project assembled by Weidmüller.
With the *Shopping cart* you can create a simple csv list which contains all articles used in your project to transfer this data to a distributor shop or other systems.

It is possible to exclude terminal rails and third party components from your list.
Product finder

The Product finder is located on the left side of your WMC workspace. It shows all Weidmüller articles which can be placed in your current project.

Articles which can’t be placed (mounted) in your current project are not shown in the product finder.

Search

You can search for articles in the product finder by either using the general search at the top or the search for a specific column.

The general search scans all attributes of all articles and shows the result in the product finder with the search term marked.

To search more specific, you can look up your search term only in specific columns. In this case you get a more detailed result. Your search term is marked in the result as well.
Customization
You can customize the groups and columns of the product finder to adjust it to your personal needs.

To add an attribute as a group you can drag and drop it in the position you want to place it. In the same way you can add or move attributes in columns.

To add new attributes to your product finder you can use the little plus sign and choose an attribute from the pop up window. To delete attributes, you can drag it and drop in the 3D workspace of the WMC, a little symbol will indicate the operation.

At the top of the product finder you can set global filters which are valid for the whole configuration.

Article placement
To place an article, you can either drag it to your workspace and drop it at the position you want or press the enter button on your keyboard.

To place an article repeatedly you can use SHIFT+ENTER or the context menu opened with a right click.

Article information
It is possible to get additional article information by opening it in the online catalogue or by downloading a pdf datasheet. You can find both options in the context menu of an article which can be opened with your right mouse button. Please note that for both functions you need an online connection.

Project tree view

The project tree gives you a real time overview of the active project. It makes it easy to navigate to single articles in the structure.

A selection in the project tree simultaneously selects the same article in the 3D workspace and vice versa. Besides it is possible to open the right click context menu on an article in the project tree.
The project tree always shows the element names depending on your view setting for your 3D workspace so that both information are displayed the same.

3D workspace

The 3D workspace of the Weidmüller Configurator gives you a real-time preview of your configuration and is the area where you can edit your assembly. You can view your configuration from all directions to get a detailed preview.

Project overview

At the top of the workspace you can find the project overview. It shows the different root articles of your project for example if you have several terminal rails or enclosures. You can switch between these tabs.

You can add new root articles to your project with the plus sign.

The right mouse button opens a menu where you can find some regular options on this. As a special function you can save a configuration in one tab as a sub-assembly. This can be useful if you want to reuse this configuration in other projects.
Context menu

You can open the context menu with the right mouse button. This menu offers you many different options to work with your configuration. The context menu is also available in the project tree.

The options in the context menu may differ depending on the selected article or position.

There are standard functions like cut, copy, paste and delete and special functions which will be explained in detail in the following part.

**Change Orientation**
Changes the orientation of the article by rotating it 180°. If multiple articles are selected it will rotate each of it and not change the order.

**Add placeholder**
A placeholder is an option to reserve a free slot on your mounting rail.

**Add 3rd party component**
If you want to plan a 3rd party component you can select this option and add in the article data which will be saved in the data of this 3rd party component placeholder.

**Add accessory**
You can use this function to *Add accessory* to your configuration. In case that you want to place an accessory on a special position in your project please find the article in the product finder and place it manually.

**Replace with similar product**
The functions analyses your selected product and gives you alternative articles based on the biggest coincidence of the article data.

**Place sub-assembly**
To place a sub-assembly, use the function in the context menu of the 3D work space.

**Edit mounting rail punching**
You can edit the punching of the mounting rail in your configuration. For this function the configurator gives you a special editing dialog where the settings for the mounting rail can be changed.
Jump to project tree
Jump to the selected article in the project tree view.

Jump to online product catalogue
Jump to the article information in our online product catalogue. An online connection is needed.

Open datasheet
Download a PDF datasheet of the selected article. An online connection is needed.

Properties
The Properties option of each article is used to set the general properties and the reference designation. In the properties of mounting rails, you can set mounting rail adaptions, comments and you can see the modification history.

Output message box
The Output message box shows all information regarding the import and export or verify results of your project. In case of any compatibility problems after a product data update the information can be found here, too.

File menu
In the File menu you can find general program functions to create new, save or open existing projects and to exit the Weidmüller Configurator.
Project properties

The *Project properties* contains all general project data such as company name, order number, the author or file name. Also, the selected sales region of the project is shown.

With *Product information* you can open an overview of all additional product information of the articles designed in your project.

Recent documents

You can see your recently used projects and file locations with this option.

Print project documentation

With *Print project documentation*, you can create different exports of your project for your follow up processes.

Assembly view

The *Assembly view* gives you many possibilities to create documentations of your project to assist the assembly. You can customize the information you want to see in the export by choosing your preferred settings.

On the right side you get a preview of your documentations with the current settings. If you are done with the settings you can either print your documentation or export it as a PDF file.

Article list

The *Article list* is an overview of all articles which are planned in the current project. It contains the general project information and information on all articles grouped by root articles.

You can either print your article list or export it to excel or as a PDF file.

Complete documentation

The *Complete documentation* creates a ZIP archive with both, the assembly view and the article list. Additionally, it downloads PDF datasheets of all products used in your project and adds them to this archive.

Interfaces

M-Print PRO

M-Print PRO is the software provided from Weidmüller for labelling markers with our printers. For the export you have several settings you can choose. One important option is the export format. To use the best integration between WMC and M-Print PRO please use the WMEX format. With the sorting you can set the order of the single labels either horizontally or vertically to your preferred option.

In the export options you can choose the way how the software should behave after your export.

Step

STEP is a standard 3D format. With this export you can create a 3D export either from your complete project or only from your current view.

For this feature a previous download of all detailed step models is needed. This will automatically start once with your first export.

DXF

The DXF export gives you the possibility to export a front view of your whole project or only your current view to a 2D Export. You can choose between different DXF versions.

For this feature a previous download of all detailed step models is needed. This will automatically start once with your first export.
E3.series
The Zuken E3.series interface gives you the possibility to use the Weidmüller Configurator as a fully integrated addon to your ECAD planning. The details about the integration and how to use this interface are explained in the part “ECAD interfaces in detail” of this document.

EPLAN
The EPLAN interface gives you the possibility to use the Weidmüller Configurator as a fully integrated addon to your ECAD planning. The details about the integration and how to use this interface are explained in the part “ECAD interfaces in detail” of this document.

Industrial Automation
The Industrial Automation export creates a proprietary XML file which includes geometrical and logical information about your assemblies, called .iax file. With the help of this export format it is possible to automatically assemble your product with the help of machines.

Settings
The settings section gives all possible options to adjust the WMC to the personal use like user interface language, measurement unit or the sales region.

If there are any problems regarding the user interface of the WMC it is possible to reset this here.

Some of these settings require a restart of the software. If a restart is needed you will get an information regarding this.

Help
In this section you can see the current version of the Weidmüller Configurator and check for updates. Further you can create a diagnostic file if you have any technical problems with the software. Please send this file with a detailed description of your approach to our support at wmc@weidmueller.com.
Application Assistants in detail

Introduction

Our Application assistants help you to create solutions for special applications quick and easy by selecting different settings. The assistants will automatically build up a solution regarding on these settings.

Each Application assistant is designed to create the best fitting solution in the easiest way to you only by setting specific technical characteristics of your application.

Signal wiring

The Signal wiring assistant is used to help you compile an assembly for signal wiring. In the main window you can set the number of signal terminals and blocks. Further, you can define if you need a supply terminal and how many signal counts per terminal you want. There is also the option of selecting whether signal wiring assembly has an integrated protective conductor and a potential P. This assistant also allows you to automatically mark the assembly with markers.
Control current circuit supply

The Control current circuit supply assistant can be used to provide you a quick solution for your application. In this assistant you can define the number of +/- potentials and the amount, of blocks. You can also choose between different cross-sections, a grouped or alternating setup with or without functional earth. Furthermore, you can automatically mark the assembly with markers.

Control current circuit with fuse

In the Assistant for Control current supply with fuse you can configure the general setup of your assembly Grouped or Alternating. You can decide if you need a Functional Earth and set the number of fuses. You can automatically mark the terminals with predefined marking patterns.

In the Product list all fuses are listed with its specifications. Here you can change the settings for each fuse. You can choose between different version with or without LED, different rated voltages and if you want to use a fuse with a disconnect function. Furthermore, you can choose how many +/- disposals you need for the fuse.
Patch distributor with fuse protection

The main window gives you the possibility to set the number of signals/potentials, redundancy signals/potentials and blocks. You can also choose if you want an alternating array and if the assembly is compiled with system cabling or not.

In the tab terminal configuration, you can specify the first function between feed-through terminal and test-disconnect terminal and if the assembly is compiled with an integrated protective conductor or not.
Patch Distributor

In the main window of this assistant you set the mounting rail on which the assembly should be compiled and which product type it should be.

Please note that you can only choose the type of the mounting rail if you start the assistant directly from the WMC start menu.

You can also set the number of levels, terminals, potential, connections and blocks. In the second tab you can define arrangement and colours of your terminals and their operational elements. With these options it is possible to create a clearly structured assembly which fits your needs.

In the third window, Terminal block designation, you can set the block designation and the marking of modular terminals and marking of marker holder/partitions.
Remote I/O system

The assistant guides you through the creation of your remote I/O systems. You start by choosing a coupler and add different modules to your application. You have several module types to choose articles from.

In the Product list you get an overview of all articles added to your project and you can change the position of the different module blocks.

With the Power requirement overview you can adjust the values of the modules in your application. The Auto-Powerfeed automatically adds power-feed modules to provide enough power.

To finish your configuration and take over all articles to your WMC project click OK.
Create your Electronic load monitoring application with the help of this assistant. Choose a Supply module at first and continue by adding different modules to your assembly. The assistant automatically sets the quantity depending on your connections, it also adds all cross connectors needed for the application.

You can change the order of load monitoring blocks via drag and drop and edit or delete them.

To complete your configuration, click OK and the result of the assistant will be added to your project.
Instrument Transformer terminal block

Create your transformer terminal block with the help of this assistant. Choose your type of connection and set all parameters depending on your requirements. The assistant will automatically create the terminal block with all necessary accessory.

You can either add only current or voltage blocks or both in combination.

Transfer your assembly to your project by clicking OK.
Industrial Enclosure

The Industrial Enclosure assistant is designed to create a complete solution of electrical components mounted in an enclosure that fits your needs.

You can use the assistant in two different ways. Starting with the customization of the enclosure and add the mounting rail afterwards or you already have a finished mounting rail in your project and you want to mount this in an enclosure.

Industrial Enclosure assistant interface

The Industrial Enclosure interface is separated in four sections. At the top side you can define global parameters for your assembly such as the protection degree.

In the mid area you have a 3D preview of the current set enclosure and the functionality buttons.

At the bottom side you can switch between the different sides and see the objects you added to them. Further you can add your terminal rails here and select the specific enclosure which fits your needs.

With the functionality buttons you can add accessory, drillings and threads to your active side.

Suggested workflow

To avoid any problems regarding space we would recommend starting by building up your electrical components on one or several terminal rails.

Start with the configuration of your electrical components and to build up your terminal rail in the standard way of the WMC. If you are registered for the Fast Delivery Service and want to use this for your project you should start with one of the enclosure specific filter settings.

If you are done with your electrical configuration please start the Industrial Enclosure assistant.
In the Industrial Enclosure you set the global parameters and proceed with the definition of objects on the different sides. Add your accessory, drillings and threads.

Afterwards select your terminal rails you created before in the Mounting rails tab.

The last step is to specify your enclosure in detail. Go to Properties and wait for the configurator checking all possible enclosures for your application.

If you select an enclosure it will be locked and you can see it in the preview. The assistant won’t change the enclosure automatically anymore when it is locked by your selection.

If you are ready with the assembly you can confirm everything with the OK button and your project will be completed and transformed.
Heavy-duty connectors

The heavy-duty connector assistant gives you a guided configuration for our heavy-duty connectors.

You can either start by choosing a housing for your connector or by designing the inside.

If you start by choosing the housing you will only be able to add in modules and inserts which are compatible with your selected enclosure.

The housing will then be locked for your configuration. If you want to unlock your selection click on the little locked icon.
If you start by designing the inside of your connector the assistant will automatically propose an appropriate housing.

Your inside can be chosen from a modular system or fixed pole inserts with the desired contacts.

If you are done with your configuration you can confirm everything with OK and your complete project will be built up.
Assembled enclosure (ex certified)

The assistant for ex certified enclosures supports you to find solutions for your specific ex environment.

The assistant can only be started from the start menu of the WMC.

At first you have to set your ex environment parameters which define a valid portfolio for your application. Fill in your parameters and confirm it with OK.

After your confirmation you can start either by selecting a mounting rail and configure your terminal rail or an enclosure.

In case you choose to start with a mounting rail you must use the enclosure assistant if you are ready with your terminal rail configuration.

The complete portfolio of the WMC will now be restricted to your selected parameters so that the software only gives you articles which are valid for your ex environment.

The ex certified mode of the WMC will be indicated by an ex icon on the right side of your 3D working area. By clicking on this icon you can see your chosen parameters at any time.

Please note that you can not change these parameters after a confirmation. If you need other parameters you have to restart the assistant on the start page.

If you are ready with your configuration you can request an individual offer for your ex certified enclosure.
ECAD Interfaces

General

In this section you will find the detailed descriptions for the integrated ECAD interfaces.

The ECAD integration Plug-in’s are developed with the target to accelerate your engineering process during the planning with EPLAN P8 or Zuken E3. This is achieved by exchanging project data of all used terminals with its assigned accessories between the systems. The following figure displays the functional data exchange process with its “Import” and “Export” channels.

**Import**
- Importing terminal strips from ECAD to the configurator.
- The integrated import-assistant is managing the mapping for terminal strips from ECAD to physical rails.
- Transfer the terminal marking designation from ECAD to the WMC on an appropriate suggested marker article.
- Generic planning allows you to start engineering in an ECAD tool with just the logical function (symbol) and afterwards the configurator suggests an appropriate article for this functionID.

**Export**
- Supplementation of accessories by using the auto solve function and exporting back to ECAD
- Adding several terminals in the configurator including its required accessories, afterwards supplementing the device manager in ECAD with these articles

For user doing the panel planning within the ECAD (i.e. E3 Panel, EPLAN Pro Panel) the import and export supports the transfer of placement information.

**Offer Request**
After the import from ECAD you have the opportunity to add accessories, new components or furthermore placing an existing configuration into an appropriate enclosure by using the new enclosure assistant. At this point of your configuration you can use our service and send your request directly from the Weidmüller Configurator.

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1 If E3.panel is used, all placed devices on the rail are supported.
2 Not supported in the E3.series interface.
ECAD Panel (3D) description

Introduction
The Plugin contains a 2D Schematics and 3D Panel Importing and Exporting function. This capture will describe how the 3D Panel interface (EPLAN, E3) works and which limitations are applied to the interface.

As a general statement, the interface just considers rails and its rail mounted components (direct children of the rail). Accessories like markers, plugs and bridges won’t be placed on the 3D mounting layout and are just appended to the main parts as a list.

Concept of interfaces:

Limitation of the interface
In the picture above a detailed view of the interface shows, how the systems collaborate.

The ECAD system is every time the master, whereas the WMC ECAD interface has the limitation of the following changes by the WMC:

- Any technical attributes of the mounting rail like width, height and length cannot be changed.
- Already existing rail mounted components (initial children of the rail) like terminals and power supplies, which were placed in the ECAD system, are not removable. Furthermore, the terminal name in the “BMK” of the part cannot be changed.
- The position or alignment (rotation) of initial child’s can be changed and it is possible to add new terminals to the rail.
- In general, the electrical function cannot be changed by the WMC.
Set article reference

The WMC needs a clear mapping to support the export/import function to ECAD back during a roundtrip.

For EPLAN the part number is a primary key to handle articles. Every incoming article is mapped to this key. As an example, using SAP numbers like shown under Customer Article number, map those articles to the Weidmüller standard 10 figure order number. This mapping, like CustomData.csv as shown below, is used by the configurator to handle these different custom article numbers. You can find this file under the following directory: %appdata%\Weidmueller\WMC\CustomData.csv.

CustomData.csv example:

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WMC</td>
<td>CustomDataList</td>
<td>1.0</td>
<td>EUR</td>
</tr>
<tr>
<td>WM-ArticleNumber</td>
<td>Customer-ArtFavoriteTag</td>
<td>Price</td>
<td></td>
</tr>
<tr>
<td>1020000000 SAP.4711</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8630740000 SAP.4811</td>
<td>A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Using EPLAN

Install plugin

Generally

The Weidmüller Configurator (WMC) has an integrated interface with the engineering software EPLAN Electrical P8 (from version 2.7 to 2.9). To use this interface with WMC it is necessary to install this plugin (Add On).

In this documentation we will go through the installation step by step and give you an overview about the entire functionality of this plugin.

It is a prerequisite to have WMC and EPLAN Electrical P8 installed on your system.

Please update your article data in EPLAN especially the terminals, because of some major fixes of tiers/level attributes. Every standard terminal (with one level) shall contain the figure “0”. This is important for the interface to ensure correct working.

In case of having already installed a previous version of the interface, please uninstall this version before installing the new one. You can find the installed plugin under system control->program and features-> EPLAN Weidmüller Configurator AddOn as blue marked below.

Installation

Go to the file menu of WMC and choose „Interfaces“. Here you can find an entry for EPLAN. Run the plugin setup and follow the installation wizard.

<table>
<thead>
<tr>
<th>Interfaces</th>
<th>ePlan P8</th>
</tr>
</thead>
<tbody>
<tr>
<td>New...</td>
<td></td>
</tr>
<tr>
<td>Save</td>
<td></td>
</tr>
<tr>
<td>Save as...</td>
<td></td>
</tr>
<tr>
<td>Open...</td>
<td></td>
</tr>
<tr>
<td>Interfaces</td>
<td></td>
</tr>
<tr>
<td>Settings</td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td></td>
</tr>
</tbody>
</table>

Create Transfer file
Transfers data to the target CAE system.

Open transfer file
Creates a new project using the CAE data.

Plugin Setup
Starts the CAE integration setup.
After the installation of the plugin is done, you have an entry for the Weidmüller interface in EPLAN P8 on the main menu point “Weidmüller Configurator” and a special symbol bar in your EPLAN now. As shown below:

Configuration
Start EPLAN P8 and Click on the “gear” symbol as shown in the picture.

Then check the Configurator program-path, usually there is already such a path link assigned.

In case the path is empty navigate by this ... to %appdata%\Weidmueller\WMC\Interfaces\WMC.DataExchange.P8Interface. This referenced file is required to call the Configurator from EPLAN directly.
Define Data Exchange storage of Exported Project files (optional)

Switch the radio button to user directory and navigate by the button to an appropriated storage location for your Project. It is up to you to declare such a directory to have a specified transaction folder, otherwise the EPLAN-Project location will be taken automatically.

Use case

The Interface can be used in 2 different Use cases.

1. EPLAN->WMC: Start engineering in EPLAN P8 then transfer the Data to the Weidmüller configurator.
2. Roundtrip between EPLAN and WMC: Start engineering in EPLAN P8 then transfer some Data to the Configurator. The configurator supplements articles like terminals with its appropriate accessories by the verify/auto solve function. These additional articles can be transferred back to EPLAN.

Hint: Please note that the descripted Roundtrip is just valid for the first time of exporting data to EPLAN! For every further export please import again your entire project to the WMC.

Article scope

With reference to the transferred items between EPLAN and the WMC the Interface is mainly handling terminals including its accessories like markers, cross connectors, end plates and end brackets. In conclusion every terminal related article will be transferred.
Generic planning

Generic planning means to engineer in a ECAD software symbols/electrical functions without concerning about any articles. In EPLAN each symbol provides a function ID whereby the WMC can suggest appropriate components (terminals).

As an example, the terminal strip X13 is not containing a certain article at each terminal.

Here is the EPLAN terminal property for -X13:1. The terminal is just containing a function definition:

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Display</th>
<th>Symbol / function data</th>
<th>Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displayed ID:</td>
<td>-X13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection point designation</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saddle jumper</td>
<td>Automatic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The parts list does not contain any article.
Important is that you never use the general IDs during the generic planning. Mostly the second option in the list “function definitions” is wrong, regardless of the quantity of connection points. For example: Don’t use “Terminal, general, with saddle jumper, 2 connection points” instead you must choose “Terminal with saddle jumper, 2 connection points”.

---

**Function definitions**

Selection:

- Electrical engineering
  - Terminals and plugs
    - Terminal
      - Graphic
      - Terminal, variable
      - Terminals with saddle jumper, 1 connection point
      - Terminals with saddle jumper, 2 connection points
        - N-terminal with saddle jumper, 2 connection points
        - PE terminal with rail contact, 2 connection points
        - SH terminal with saddle jumper, 2 connection points
        - Terminal with saddle jumper, 2 connection points
      - Terminals with saddle jumper, 3 connection points
        - Terminal, general, with saddle jumper, 3 connection points
      - Terminals with saddle jumper, 4 connection points
      - Terminals with saddle jumper, 5 connection points
      - Terminals with saddle jumper, 6 connection points
      - Terminals with saddle jumper, 7 connection points
      - Terminals with saddle jumper, 8 connection points
      - Terminals with saddle jumper, 9 connection points
      - Terminals, 1 connection point
      - Terminals, 2 connection points
      - Terminals, 3 connection points
      - Terminals, 4 connection points
      - Terminals, 5 connection points
      - Terminals, 6 connection points
      - Terminals, 7 connection points
      - Terminals, 8 connection points
      - Terminals, 9 connection points
Proof terminal strip definition before export

Now you can proof or edit your terminal strip definition in the terminal strip navigator by clicking „edit“. The information and attributes of the terminal strip definition will be used for the sorting and mapping of each terminal. Here it is possible to change the rows, designations, insert part numbers and more if needed and it will have a direct effect on the configuration you will get in the Weidmüller Configurator.

Below you can see the result of the above shown terminal strip definition.
Import

At the beginning we are going to import an EPLAN project to the configurator. The Project is already open in EPLAN P8. You have either to click on the Export Button or you can navigate via the menu option as shown below.

After clicking on “Export” there will pop-up a window where you have to choose from which working area you would like to export the articles.

EPLAN Electric P8 (2D)

With choosing “Export 2D” all existing terminal strip definitions (Create a terminal strip definition with EPLAN) from the schematic of the project will be exported.

The dialog offers 3 options to process the EPLAN Export:

1. Just “Export” the file to a certain configured directory defined by “Settings” (“Define Data Exchange storage of Exported Project files (optional)”).
2. Declare a storage location, afterwards the configurator is going to start and importing the stored file.
3. Auto transfer: The file will be stored on the by “Settings” defined location, afterwards the configurator is automatically importing the file from EPLAN.
Hint:
During the use of option 1. there is every time a manual importing required via File->Interface->EPLAN->Open transfer file

Import assistant (2D) on WMC side
The WMC is handling Imports from EPLAN via a certain Import assistant. This allows the user to create a mapping from terminal strips (EPLAN) to physical rails in the configurator or to a new added rail.

Every terminal strip definition in EPLAN got its own physical rail. If you dislike the suggested assignment, it is very easy to change the rail assignment by pulling the rails via drag and drop.
Furthermore, it is possible to add a specific rail via clicking on “+Add mounting rail…”. Here you can select a rail by article number or filter with the article attribution.

After finishing the rail assignment, click on the button “next” in the right corner at the bottom. There will be an info message window which requires a confirmation.

Finally, the import is successful:

As you can see the EPLAN project name will be used in the configurator on the top of the window and the terminal designation is transferred from EPLAN. By the way there is no need to define the marker type in EPLAN, the configurator is placing these markers to their default positions.

EPLAN Pro Panel (3D)

To choose articles for the 3D export you can select rails, mounting plates, enclosures or layout spaces. You can select them on the project tree navigator or in the editing window.

By selecting one rail, only the rail and its rail mounted components (direct children of the rail) will be exported. HINT: Accessories like markers, plugs and bridges won’t be placed on the 3D mounting layout and are just appended to the main parts as a list.

By selecting a mounting plate, all on the mounting plate placed rails and its rail mounted components will be exported etc.

After selecting the desired rails you have to click the Weidmüller Configurator “Export” button as described at the beginning of the topic Import and choose now “Export 3D”
Import assistant (3D) on WMC side
The WMC is handling Imports from EPLAN via a certain Import assistant. In comparison to the 2D Import, in the 3D import assistant it is not necessary to map or change terminal strips, because the concrete configuration was made already in the 3D work area of ProPanel. So if faults or invalid data were detected during the import, they will be shown in this window.

In the second import assistant window is it possible to change the end bracket marking.

Typically, the end brackets get the marking information from the assigned terminal what causes that the WMC labels the end brackets with the same designation as their assigned terminals.

By setting the check mark, the end brackets will be labeled with the reference designation of the terminal strip.

The setting of the check mark is persistent, but can be changed during every new import procedure.
Working in the WMC after EPLAN Import

Now you can see your imported rails in the WMC. You have the opportunity to:

- Add some new terminal blocks and transfer it back to EPLAN
- Change placing of existing parts
- Add accessories like markers or endplates and end brackets to the terminals
- Use the auto verification function to complement needed accessories

After modifying the configuration in the WMC, the rail could look like this:
Hint:

For afterwards added articles it is possible to allocate a new “Product” designation and create with it a new terminal strip on the current rail. Therefor, you have to fill in a different “Product” name, then the current terminal strip has.

But if you just want to extend the terminal strip with new articles that are assigned to the current terminal strip, you can set the check mark in the properties of the new articles. Now it’s not possible to rename the “Product” name as shown below.

The WMC suggests articles

The configurator offers an opportunity to define which terminal series (i.e. A-Series) and connection technology (i.e. Push-In, screwed) shall preferred during the generic planning. By the way this option has also an effect on the suggested articles of the auto-solve verify function.

The function is reachable under File->Settings:

Activate “Favoured product features” and add a preferred product family and connection technology via the button “+ Add product features”.

![Properties dialog](image)

![The WMC suggests articles](image)

![Activate Favoured product features](image)
As an example: Import of the project with the terminal strip -X13:

<table>
<thead>
<tr>
<th>====== Product mapping for mounting rails of type TS 35 x 7,5 ======</th>
</tr>
</thead>
</table>
| 3 generic products will be mapped to A2C 2.5 (1521850000) by the user due to the following attributes (Reset mappings...):  
  - WMC - Eplan Transfer = 100/6/1  
  - tier = 1 |

| 1 generic products will be mapped to A2C 2.5 PE (1521680000) automatically due to the following attributes:  
  - WMC - Eplan Transfer = 100/6/3  
  - tier = 1 |

It is still possible to change this certain mapping by clicking on the blue marked article number.

**Export**

To reach the export go to the File->Interfaces->EPLAN P8 and click on export, then choose an appropriate storage directory and save this file.

The next step is to import in EPLAN the exported file from the Configurator. Click on the marked button below.
A new window is popping up.

You navigate to the exported file and click “OK” to confirm. After the import you can see in the device- or terminal navigator the new added components.

Before import:
Terminal strips - V011_Project_stakeholderTest

<table>
<thead>
<tr>
<th>Filter:</th>
<th>Value:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Not activated -</td>
<td></td>
</tr>
</tbody>
</table>

After the Import to EPLAN:
Terminal strips

<table>
<thead>
<tr>
<th>Filter:</th>
<th>Value:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Not activated -</td>
<td></td>
</tr>
</tbody>
</table>

End-brackets are added to terminal strip definition:

Afterwards, you have just to place the new terminals in the schematics if they were added in the WMC. Complemented accessories like markers, end-plates and end brackets which belongs to a certain terminal are listed on the terminal part list and added in the terminal strip definition.

The same applies for supplement of the part list in EPLAN ProPanel, but additional to that, new terminals will be placed automatically, if you used the 3D Export before.
Using Zuken E3.series

Installation

Go to the file menu of WMC and choose „Interfaces“. Here you can find an entry for E3.series. Click on the Plugin Setup, afterwards a window is popping up. Then select register plugin as shown in the pictures.

In case of having already installed the plug-in, there is no need for an update.

General information

The Interface can be used in 3 different Use cases.

1. E3.series->WMC: Start engineering in E3 then transfer the Data to WMC.
2. Roundtrip between E3.series and WMC: Start engineering in E3 then transfer some data to the configurator. The configurator supplements articles like terminals with its appropriate accessories by the verify/auto solve function. These additional articles can be transferred back to E3.
3. WMC->E3.series: Start designing components in the configurator and export these components to E3.
**Article scope**
The behavior of the transferred articles is different and depends on the used E3 module.

E3.schematics = terminals including its accessories

E3.panel = Weidmüller devices in general

---

**E3.schematics**

With reference to the transferred items between E3.schematics and the Configurator the Interface is mainly handling terminals including its accessories like markers, cross connectors, end plates and end brackets.

**Placement of bridges and accessories**
The WMC can place bridges/jumpers in order to connect terminals. Here are 2 different ways to properly define these bridges in E3.

**Generic bridges**
Draw a connection between terminals and use the wire “AutoUsedJumperTyp” from the default E3 components library. As you can see in the picture the connection between the terminal -X2:1 and -X2:2.
Bridges as additional parts
In case of you would like to place a certain bridge/jumper article, you have to assign the bridge part number (which you would like to connect) on the first connected terminal from left. After right-clicking on the terminal open the “Device Properties”, then click on the marked row and choose the option “Additional Part”.

Device Properties

Device

[Image of Device Properties]

- Attribute for use from active pin terminal
- BOM Position
- Component Group
- Customer device designation (electric)
- Data sheet
In this new row you can type the bridge/jumper article number of the desired bridge. As an example:
On X2:1 is assigned a bridge/jumper part number:

After an import to the configurator you can see the bridge part number, which is connected to the terminals X2:1, 2 and 3.
Accessories
The required accessories, which belongs to a certain terminal like an end plate, can be assigned if desired in the same way as explained before under method 2. bridge/jumper placement via the attribute additional part.

Import
At the beginning you are going to import an E3.schematics project to the configurator. The project is already open in E3.schematics. Click on the export button and the import of the Configurator is automatically in progress.

Import Assistant
The WMC is handling Imports from E3.schematics via a certain Import assistant. This allows the user to create a mapping from terminal strips (E3.schematics) to physical rails in the Configurator or to a new added rail.
Every terminal strip definition in E3.schematics got its own physical rail. If you dislike the suggested assignment, it is very easy to change the rail assignment by pulling the rails via drag and drop.

Furthermore, it is possible to add a specific rail via clicking on the yellow marked button above.

After finishing the rail assignment, you shall click on the button “next” on the right hand side corner at the bottom of the window. To start the import confirm with “ok”.

Finally, the import is successful:

As you can see the E3 project name will be used in the configurator on the top of the window and the terminal designation is transferred from E3. By the way there is no need to define the marker type in E3, the configurator is auto-suggesting these markers to their default points.
The WMC suggests articles
The configurator offers an opportunity to define the preferred terminal series (i.e. A-Series) and connection technology (i.e. Push-In, screwed). This option has an effect on the suggested articles of the auto-solve verify function.

The function is reachable under File->Settings:

Activate “Favoured product features” and add a preferred product family and connection technology via the button “+ Add product features”

Export
One of the main benefits of our WMC is the product related accessory knowledge. It gives you the possibility to add required and necessary parts to an existing rail-configuration. Here is a simple example: In the beginning we have imported E3.series project to the Configurator, now you are going to add terminals to a certain terminal strip, here the red terminals and end brackets to each end of the rail.
By the way, the easiest way to place the appropriate end bracket is to use the verify function of the Configurator. See below:

To reach the export go to the File->Interfaces->E3.series and click on export.
A new window in E3 is popping up:

This is the integrated E3.series import assistant for the interface. Here you have the opportunity to select which terminal strips shall be imported to E3. In order to select several items, click on a certain strip (blue marked) and on the single arrow. If you want to update all strips, you just have to click on this double arrow and all items are going to be placed on the right side. By the way the imported assistant provides information about changes by the Configurator. As you can see X2_MR was edited by the Configurator.
Finally, confirm the dialog with the “OK” button and the import is in progress.

In this example two end brackets were added and you can see these articles under the terminal strip definition properties (blue marked below). Added accessories like markers and end-plates which belong to a certain terminal are listed on the terminal part list.
E3.panel

In case of using E3.panel the article scope is tremendously enlarged. The import to the WMC will strictly depend on the placed devices in the E3.panel diagram. You can say E3.panel has the priority of transferred devices.

Weidmüller devices in general (terminals, power supplies, IO remote…) are going to be transferred to the Configurator in case of using E3.panel.

Im- and Export

You can use the import and export functions in the same way as explained for E3.schematics.

Sample project panel diagram:

Export of rotated terminals

In E3.panel you have the opportunity to rotate terminals via “left click+r” as shown:
The Configurator will import these terminals in the rotated position as well.

The in E3.panel defined rail length and the space between the terminals blocks, will also be maintained by the Configurator as you can see in the picture above.
Import in WMC
The import assistant from the Configurator is working roughly in the same way as in E3.schematics, with just two exceptions:

1. Weidmüller devices in general are supported (U-remote, power supplies, ...).
2. Transferred items are the in E3.panel diagram placed components on the rails including the used physical rails itself.

Export back to E3
The exporting is working in a different way compared to E3.schematics. As an example you will supplement the configuration with markers end brackets and end plates.
Now you are going to export the project from WMC (same way as schematics). You are selecting just the item with changes and confirm with “OK”.

Afterwards E3.panel has removed the placed articles on the selected rail U1.
You have to place the components again on U1, including the new imported parts by WMC.

The supplemented rail is shown below with the added end-brackets and end plates.

Finally, the E3.panel diagram is successfully supplemented by the new added articles from the Configurator.
Fast Delivery Service

With the Fast Delivery Service the WMC offers the possibility that you could configure your terminal rail or enclosure and get an automatic offer with delivery promise for the individual configuration. For more details to the Fast Delivery service, please have a look at [www.weidmueller.com/fds](http://www.weidmueller.com/fds).

Service level

For the Fast Delivery Service we offer you different service levels, that you could select in the WMC.

- **5 Days Fast Delivery - Terminal Rail:**
  We promise an automatic offer for released customer within minutes. After ordering the terminal rails will be ready for shipment in 4 days. The delivery promise is valid for 30pcs per order. If you order more than 30pcs we will deliver in parts.

- **10 Days Fast Delivery - Terminal Rail:**
  We promise an automatic offer for released customer within minutes. After ordering the terminal rails will be ready for shipment in 9 days.

- **Fast Offer - Terminal Rail:**
  We promise an automatic offer for released customers within minutes. No delivery promises for this article number. Delivery time is on request.

- **5 Days Fast Delivery - Enclosure:**
  We promise an automatic offer for released customer within minutes. After ordering the enclosures will be ready for shipment in 4 days. The delivery promise is valid for 10pcs per order. If you order more than 10pcs we will deliver in parts.

- **10 Days Fast Delivery - Enclosure:**
  We promise an automatic offer for released customer within minutes. After ordering the enclosures will be ready for shipment in 9 days.

- **Fast Offer - Enclosure:**
  We promise an automatic offer for released customers within minutes. No delivery promises for this article number. Delivery time is on request.
Depending of the selected “Sales region” in the Settings you will find the possible service levels for your region.

Working with the Fast Delivery Service
You have 2 ways to use the Fast Delivery Service with the different service levels:

1. Start directly with the service level.
   For this you select the button “Fast Delivery Service” in the start screen or select first the “Mounting rail” or “Enclosure”.
   Next you select your needed service level and start with your configuration.
   If you chose this way, the assortment and functionality of the WMC will be focused to the possibilities that we could offer in this service level. Components and functions which do not fit to this service level could not be selected.

2. Start with a new project and see in the request window in which service level we could offer your configuration.
   With this possibility you could use all components and functions which are included in the WMC. In case of request you could see in which service level we are able to offer you the configuration.

If you want to get the automatic offer, you must click the “Request” button after you have finished your configuration.

Select for the “Delivery” “Assembled product”. Now the WMC will check your configuration according to the assortment and safety rules. The best service level that we could provide to you will be shown.

You could open the dropdown menu to see the other service levels too.

You see all the service level that we are offering with the Fast delivery Service.

For the service levels “5 Days Fast Delivery - Terminal Rail”, “10 Days Fast Delivery - Terminal Rail”, “Fast Offer - Terminal Rail”, “5 Days Fast Delivery - Enclosure”, “10 Days Fast Delivery - Enclosure” and “Fast Offer - Enclosure” we offer an automatic offer for released customer. (Release could be done via your local sales)
If you select “Manual offer” the request will be forwarded to the local responsible sales team –
depending of the country that you have selected - and you will get the offer within days.

If the best fitting service level is not the one that you wish, you could select the wished one in the
dropdown menu and the WMC will check if the service level is possible.

If yes, the “Send” button will be activated and you could send the request to Weidmüller.

If no, the “Send” button will be deactivated and you will get the error message:

The current project is not compatible with the selected delivery option.
For more details close this dialog and check the messages in the output window.

Close the “Request” window and in the “Output” window you will find the information why the wished
service level is not possible.

Following messages could appear:

Terminal configuration is not valid for the selected delivery option. For more details start the verify assistant.
Your configuration does not fulfill the safety rules of the WMC.
Please use the “Verify” to see what you have to change.
If endplates, separators and/or end brackets are the reason for the error, you could deactivate for this topics the verification.

The selected delivery option requires deletion of comments. Delete comments…
In your project are comments on the components or the project properties included.
Comments could not be interpreted by the automatic system. Therefore, comments must be deleted.
All comments could be deleted by clicking on “Delete comments…”

XXX: Product (XXX) is not valid for the desired Application [Country ISO code] = [XX]
[Fast Delivery Service] = [XXX]. Replace with similar product…
This component is not part of the selected service level.
To solve, you have 3 possibilities:
- select another service level in which this component is included
- replace component with similar product which is in the wished service level
  click on “Replace with similar product…” will show similar products from the wished service level.
- delete this component from the configuration

XXX: The selected delivery option does not allow custom punching
You have selected a custom slot/hole for the mounting rail, which Weidmüller is not able to provide.
Change the slot/hole in the “Mounting rail adaptation” and take care that the checkbox “Use tools for assembly by Weidmüller only” is activated.

XXX: For the selected delivery option the length of the terminal rail has to be between 100.0 mm and 1200.0 mm
This error message will be only shown for the service level “4 day terminal strip”. Reason is that our robot, who is doing the assembly, is not able to handle smaller or longer terminal rails.
To solve, you must choose a length between 100 and 1200mm. If the terminal rail is too long, maybe divide the rail into 2 pieces.

XXX: Supply part (XXX) is not valid for the selected delivery option
Supply parts are not allowed in our automatic offer. Please see the supply parts behind the button “Supply parts” and delete them to get an automatic offer.

XXX: Product (StrippedWireEnd) is not valid for the selected delivery option.
Wiring is not allowed for the automatic offer. Please delete the wire to get an automatic offer.