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Introduction

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Installation guide

How to

When installing the Weidmüller Configurator with the installation link at the Weidmüller Website, a WMC icon will be created on the Windows desktop and a WMC program group will be created in your Windows Start menu. To start WMC you double-click the program icon on the desktop. All updates will be installed automatically when you start WMC the next time.

System requirements

To run the WMC correctly you must install the most recent Microsoft.NET-Framework version. Besides there must be an active internet connection to load all updates and data sheets from the servers, and to use the online help.

First steps

When WMC has been started you will see the main window where you can choose between a new, empty project and an already existing project.

New project

With **New Project** you can create a new project with an overview of the products to start with filtered by technical characteristic. When you have selected your article to start your configuration the main workspace of the WMC opens.
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.

Template project

If you want to get an impression of possible configurations there are some template projects. You can choose a template project from the list to get a short description of it. With the button New you create a new project based on this template to view it in detail or modify it.

Application Assistants

You can directly start your project with one of our application assistants which will guide you through a detailed configuration to give you a complete solution for your application.

The different assistants will be explained in detail in a separated chapter of this manual.

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 contains all important functions to help you with the assembly of your project.

Assistants

Application

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.

The different assistants will be explained in detail in a separated chapter of this manual.
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 placed. Further this window shows the selected marker position from the grid.

At the top right position, you can select the marker type for your selected positions in the grid. Further you can find the functionalities for *Automatically generate labels* and *Automatically adjust font size* there.

The grid gives you an overview of all possible positions for markers in your project. Each white cell is a possible position to place a marker on. You can select these cells and they will be shown 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…).

Under the grid view you can find your formatting options for the labels.

If you are ready with your editing you can add all information to your project by clicking OK.
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
With this option you can verify your complete project or your current tab.

The window gives you an overview of your project and a list of all verification results. Problems are marked red in the preview.

To solve the problems, you can either go through each entry in the list or you can use the **Auto-Solve** function.

Functions

**Supply parts**
Supply parts are article 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 hit the Enter button.

Subsequently you can set the properties of your wire like colour, type, cross section, length and if you want to use 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.

**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 several articles. You can either mark an area by click and hold the left mouse button or use the combination of STRG+ left mouse button (several 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 your middle mouse button and move it by clicking 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 makes it possible for you to select which types of components you want to be shown in your 3D view. You can select different types of articles by mark them in the dropdown menu of this mode.

When you activate this mode, all types of articles which are not marked in the dropdown menu will be set transparent.

This mode can help you to get a better overview about accessory, cross-connectors, wires, etc.

**View**
In this group you can find all different options to change the view in your 3D workspace. You have the possibility to choose from pre-defined view positions and to active or deactivate the display of additional information like dimensions, comments or product information.

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 out the contact data and choose your preferred delivery type.

You can choose between individual parts with and without the terminal rail or a pre-assembled project as a delivery type. If you are registered for the Configure to Order service you can choose the service level you want to use for your pre-assembled request. Otherwise please select None in this option which will lead to a standard quotation of your project assembled by Weidmüller.

Product finder

The Product finder is located on the left side of your Weidmüller Configurator 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 using either the general search at the top or the search only 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.
Customization

You can customize the grouping and columns of the product finder to adjust it to your preferred working method.

To add an attribute to your grouping 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 the attribute from the pop up window. To delete attributes, you can drag it and drop in the 3D workspace of the WMC.

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 hit 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.

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 side 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 an enclosure. You can switch between the different views.

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 safe 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.

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°.

Add placeholder

A placeholder is an option to reserve a free slot on your mounting rail. If you want to plan a 3rd party component you can select this option and give the information on 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 on the position.

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 online product catalogue
You can jump to the article information in our online product catalogue. For this function you need an active online connection.

Open datasheet
To download a PDF datasheet of the selected article you can use this function. An active 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 gives you information relating the import and export of your project. Further it shows the validation result from the order request dialog.

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. Besides there are more options which will be explained in the following part.

Project properties
In the *Project properties* you can see and change your general project data such as your company name, an order number, the author or the file name.

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 which can help you with 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 gives you an overview of all articles which are planned in your 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 which contains 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.

You get a .ZIP Archive which contains all information about the project and the products used in it for your follow up processes.

Interfaces

M-Print PRO
M-Print PRO is the software provided from Weidmüller for labelling markers. 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.

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

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 P8
The EPLAN P8 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

You can see and change the settings of your user interface in this section like the active language. Further you can find the settings regarding the Custom.Data.csv and the favored product features which can be used for ECAD integration.

If you have any problems with your Weidmüller Configurator you can reset the complete user interface.

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.

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.

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 Configure to Order 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.

ECAD interfaces

In this section you will find the detailed descriptions of our fully integrated ECAD interfaces. You will get a list with all possible enclosures which can be filtered by the parameters shown in the dialog.

Seamless data consistency

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\(^1\) from ECAD to physical rails.
- Transfer the terminal marking designation from ECAD to the WMC on an appropriate suggested marker article.
- Generic planning\(^2\) 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

Request for quotation
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.

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

\(^1\) If E3.panel is used, all placed devices on the rail are supported.

\(^2\) Not supported in the E3.series interface.
shown below, is used by the configurator to handle these different custom article numbers. You can find this file under the following directory: %appdata%Weidmüller\WMC\CustomData.csv.

**CustomData.csv example:**

<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMC</td>
<td>CustomDataList</td>
<td>1.0</td>
<td>EUR</td>
<td></td>
</tr>
<tr>
<td>WM-Article number</td>
<td>Customer Art Favorite Tag</td>
<td>Price</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1026000000</td>
<td>SAP.4711</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8630740000</td>
<td>SAP.4811</td>
<td>A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EPLAN electric P8**

The Weidmüller Configurator (WMC) has an integrated interface with the engineering software EPLAN Electrical P8 (from version 2.5). 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.

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” 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.
General information

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.

Please note that the described 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.

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.

Afterwards there will pop-up a window:

The dialog offers 3 options to process the EPLAN Export:

1. Just “Export” the file to a certain configured directory defined under “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 under “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.

Import assistant 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 the red marked button above.

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.

**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. With this function ID WMC can suggest appropriate components (terminals).

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

![Diagram of terminal strip X13](image)

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

![EPLAN terminal property](image)

The parts list does not contain any article.
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 be 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".

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>
<tbody>
<tr>
<td>3 generic products will be mapped to A2C 2.5 (15218580000), by the user due to the following attributes (Reset mapping...):</td>
</tr>
<tr>
<td>- WMC - Eplan Transfer = 100/6/1</td>
</tr>
<tr>
<td>- tier = 1</td>
</tr>
<tr>
<td>1 generic products will be mapped to A2C 2.5 PF (15216800000), automatically due to the following attributes:</td>
</tr>
<tr>
<td>- WMC - Eplan Transfer = 100/6/3</td>
</tr>
<tr>
<td>- tier = 1</td>
</tr>
</tbody>
</table>
```

It is still possible to change this certain mapping by clicking on the blue marked article number.
Important is that you never use during this generic planning the general IDs. Mostly the second option in the list “function definitions” is wrong, for example: “Terminal, general, with saddle jumper, 2 connection points”. Instead you should choose “Terminal with saddle jumper, 2 connection points”.

![Function definitions](image-url)
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 you have imported the EPLAN P8 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->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 - Vale Projekt Stakeholder Test

Filter:
- Not activated -
Value:

After the Import to EPLAN:

Filter:
- Not activated -
Value:

End-brackets are added to terminal strip definition:

Therefore, you have just to place the terminals in the schematics. Added accessories like markers and end-plates which belongs to a certain terminal are listed on the terminal part list.
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
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.

![Device Properties](image)

**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.