clipx ENGINEER 2.2



Release notes
Change notes at a glance

Application note
111049_en_05

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1 Description

With the clipx ENGINEER engineering software, you can plan and order terminal strips, assembled mounting panels, and junction boxes. You can transfer the data to production.

The document describes the changes between versions 2.1 and 2.2 of the clipx ENGINEER software from Phoenix Contact (phoenixcontact.com/product/1272241).

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Observe these notes

Make sure you always use the latest documentation.
It can be downloaded at phoenixcontact.com/clipx-engineer-info-center.

2 Hotfixes

2.1 Hotfix 1: Important change for users of the EPLAN Platform 2025

An update of EPLAN Platform 2025 can lead to errors when exporting ECAD projects to clipx ENGINEER. The update makes changes to the API on the part of EPLAN.

If you are using EPLAN Platform 2025, an update of the EPLAN add-on for clipx ENGINEER is required.

Download and install the new version of the add-on:
phoenixcontact.com/product/1272241

2.2 Hotfix 2: Improvements for the EPLAN Electric P8 interface

The second hotfix for clipx ENGINEER contains improvements and bug fixes for the EPLAN Electric P8 interface to make data exchange smoother.

- Optimized stability of the EPLAN Electric P8 interface
- Fixed known bugs for an improved user experience

To benefit from these improvements, you need the latest version of the clipx ENGINEER add-on.

Download and install the new version of the add-on:
phoenixcontact.com/product/1272241

3 New functions

3.1 Spacing between terminal blocks

The spacing between the terminal blocks on a DIN rail may vary during placement due to different mounting types. In practice, there are basically three mounting types:

- Terminal blocks are manually mounted side by side on the DIN rail.
- Terminal blocks are manually mounted side by side on the DIN rail and, using a tool, they are pushed closer together with determined spacings between them.
- Terminal blocks are placed on the DIN rail using an automatic assembly machine.

To map these applications in clipx ENGINEER, you can now define the spacings between the terminals on the DIN rail in the settings.

There are three different settings for the spacing between the elements:

- Small = 0.01 mm
- Medium = 0.03 mm
- Large = 0.05 mm

When you create a new clipx ENGINEER project, the default settings (0.03 mm) are used, provided that they have not already been changed. If you change the settings in an active project, the arrangement of the terminal blocks is automatically synchronized in the background.

3.2 Project templates

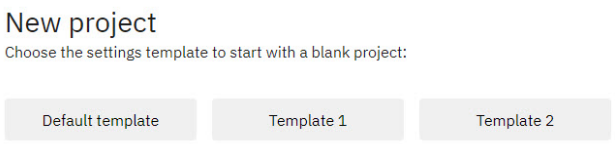
In the “Project settings” area, you can make default settings for configuring terminal strips, such as settings for marker carriers and the corresponding marking. You can now define these settings individually for each project.

When you create a new project, the default settings are initially applied to the current project. You can change them as desired and apply them to the active project. Alternatively, you can save individual project settings in a project template.

The advantage of project specifications is that the clipx ENGINEER project remains the same independent of the default settings of the active user. This also applies to projects that have been created and shared by other users.

After creating and saving individual project specifications, you can reuse this project template when creating new projects.

Figure 1 New project



You can edit project settings at any time or replace them with the default settings. To do this, use the button to apply the default settings.

3.3 Copying and moving DIN rails

In the new clipx ENGINEER version, there are extended options for using DIN rails.

Copying and pasting unmounted DIN rails

You can copy DIN rails from your active workspace.

- Select the DIN rail to be copied.
- Copy the DIN rail to the clipboard via keyboard input or the context menu.
- Insert the DIN rail via keyboard input or the context menu.

↪ The DIN rail is inserted below the original DIN rail. Equipment numbering is increased.

Copying and pasting the DIN rail placed on the mounting panel

You can also copy the DIN rails placed on a mounting panel. In contrast to copying without a mounting panel, the DIN rail can be freely placed on the mounting panel after insertion.

Removing DIN rails from the mounting panel

You can now also remove DIN rails from the mounting panel.

- Select the DIN rail.
- Press and hold down the left mouse button and move the selected DIN rail to the area outside the mounting panel and release the mouse button.

↪ The DIN rail is placed below the mounting panel.

3.4 Mechanical processing

Individual DIN rails

As of the last clipx ENGINEER version already, customizing DIN rails using mechanical processing has been possible. You can now save and reuse the DIN rails that have been adapted to individual requirements.

Drill hole matrix

When placing holes, you can now choose whether you want to place a single hole or a drill hole matrix on the rail. The matrix is defined using a drop-down menu.

- Type: The type determines the type of drill hole.
- Dimension: The diameter of the hole can be selected via a drop-down menu and specified here.
- Orientation: The orientation determines the direction in which the holes are placed on the rail.
- Position: The position defines the spacing from the rail edge.
- Spacing: The spacing defines the spacing between the holes.
- Number: The number specifies the number of holes to be placed.

A preview of the defined hole matrix is displayed in parallel. You can then confirm the placement.

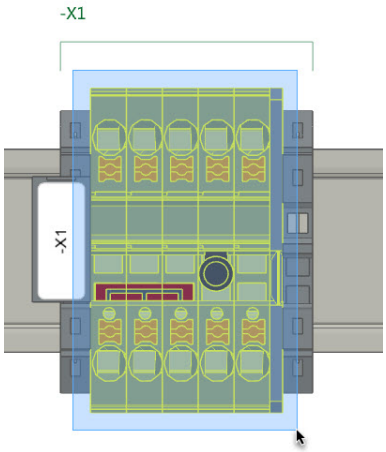
3.5 Selection in the workspace

The selection of elements and terminal strips on the DIN rail, including the accessories installed, has been revised to make configuration more intuitive.

Home mode

In “Home” mode, all items are selected by the selection frame if the items are completely within the frame. It does not matter whether it is a terminal block or an accessory for a terminal block.

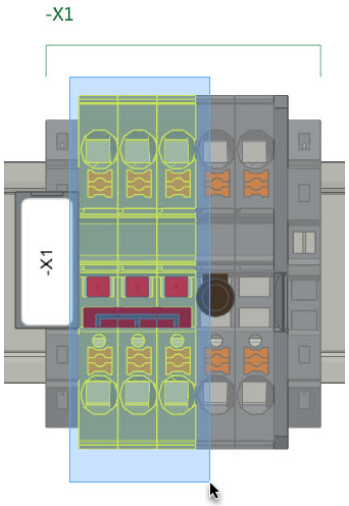
Figure 2 Home mode



Accessory mode

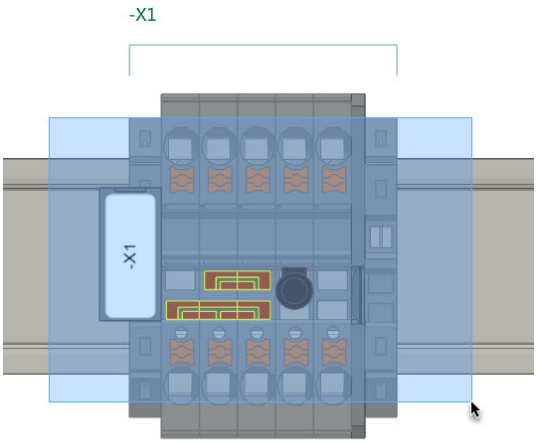
When you are in accessory mode, you can select several main elements for placing additional accessories.

Figure 3 Accessory mode



In accessory mode, you can also select the elements that correspond to the currently activated mode.

Figure 4 Accessory mode: selecting elements



3.6 Third-party articles

When creating third-party articles, you can now upload an image for the front view. The image file must not exceed the maximum size of 200 kB and must have a common format, such as jpg or png.

Figure 5 Creating third-party articles



3.7 CLM and CLXM items

CLM and CLXM items are specifically designed for automated mounting on the DIN rail. You can now activate the use of CLM and CLXM items in the settings. The difference to standard items is that the CLM and CLXM items already have mounted marking labels without printing and are sometimes fitted with a cover.

After activating one or both item types in the settings, an additional button is displayed on the START tab for converting standard items to CLM or CLXM items.

Figure 6 Button for item conversion



Once the function has been called, you can perform a conversion based on the elements currently selected. The selected elements are then converted, provided that there is a corresponding CLM or CLXM item for the relevant items.

3.8 Project documentation

Creation of project documentation has been extended to include numerous new options for customization.

In addition to the already known options for defining the format for project documentation, you can now adjust the format for the parts list.

- Quantity: The individual items of the project are listed. There is no hierarchical representation.
- Modular: The parts list is displayed based on the modules available in the project. Each module therefore has its own parts list.

You can additionally define which images should be included in the project documentation. The corresponding checkboxes can be activated or deactivated for this.

3.9 Unidirectional EPLAN Pro Panel interface

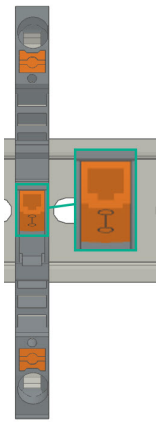
The new unidirectional interface between EPLAN Pro Panel and clipx ENGINEER allows for seamless transmission of project data from EPLAN Pro Panel directly to clipx ENGINEER.

The interface is available for EPLAN Pro Panel versions 2.9 to 2024. The required add-on must be installed separately. The installation file can be downloaded here: phoenixcontact.com/product/1272241

3.10 Displaying and changing the switching states

This function has been developed for easy-to-use test circuits and is available for selected test-disconnect terminal blocks from Phoenix Contact, such as UTME 6 or PTME 4.

Figure 7 Displaying and changing the switching states



It can be used to keep an eye on the switching state of test-disconnect terminal blocks at all times and adjust it directly in clipx ENGINEER.

Contact our team

Do you have any questions aboutclipx ENGINEER? Get in touch with your contact person at Phoenix Contact.

You can find your local partner at phoenixcontact.com.

4 Comprehensive product database

In clipx ENGINEER, you have access to a comprehensive product database from Phoenix Contact with almost 9000 items for control cabinet solutions.

The following table lists the newly added items in version 2.2 compared to version 2.1:

Item number	Item designation
3062074	AB-SK TOP INSULATED
3240223	AB-SKS 60
0790572	ATP-OTTA 2,5
0790475	ATP-OTTA 6
0790501	ATP-OTTA 25
3003224	ATP-UK
2778521	ATP-UKK 3/5
2771065	ATP-UKKB 3
0304227	ATS-GSK
3101223	ATS-MTK
0310224	ATS-RTK
0308223	ATS-RTK-BEN
0321226	ATS-URTK/SS
1115663	CAPAROC E1 12-24DC/12-20A
1524929	CAPAROC E1 12-24DC/12A
1115666	CAPAROC E1 12-24DC/16A
1524930	CAPAROC E1 12-24DC/20A
1393553	CAPAROC PM EIP
1015239	CD 40X40 330MM
2716949	D-DEK 1,5 GN
3248495	D-MP 1,5
3213690	D-PPC 1,5/S
1028592	DP-PT 6-T P/P HV-1,8
1447807	D-PT 2,5-2MTB-0,8
1083611	D-PTTBV 2,5/4
3036673	D-ST 2,5-PE/3L
2771104	D-UKKB 3/5 BU
3047455	D-UTTB 2,5/4 BU
1201662	E/AL-NS 35
0800886	E/NS 35 N
0804271	E/NS 35 N BK
1201442	E/UK
1201413	E/UK 1
1202577	E/UK-NS 35
1191986	ECM-UC-100A-MRTU
1191984	ECM-UC-100A-MTCP
1136513	ECM-UC-100A-UI
1191969	ECM-UC-10A-MRTU
1191970	ECM-UC-10A-MTCP
1136504	ECM-UC-10A-UI
1188207	EM-PSAFE-GATEWAY-IFS
0804515	EO-AB/UT/LED/DUO/20
3069055	E-UTWE 6
0203483	FBI 2-10
0201113	FBI 2-20-EX
0200059	FBI 3- 8
0201812	FBI 3-20-EX
2303226	FBR 10-5-EX
3000942	FBR 80-5-EX
3000201	FBRI 3-5 N
3000191	FBRI 4-5 N
3000515	FBRI 20-5 N
3001543	FBRN 2-4 N
3001569	FBRN 4-4 N
3001637	FBRN 20-4 N
2778550	FBRNI 2-6 N
3000159	FBRNI 4-5 N
2770626	FBRNI 10-6 N
3000609	FBRNI 20-5 N
2891042	FL PD 1001 T GT
2891013	FL PSE 2TX
1026765	FL SWITCH 1000T-2POE-GT-2SFP
2891064	FL SWITCH 1001T-4POE
1026937	FL SWITCH 1001T-4POE-GT
1026932	FL SWITCH 1001T-4POE-GT-SFP
2891037	FL SWITCH 3006T-2FX ST
1026924	FL SWITCH 4000T-4POE-SFP
1026923	FL SWITCH 4000T-8POE-2SFP
1026922	FL SWITCH 4004T-8POE-4SFP
2700689	FL SWITCH IRT 4TX

Item number	Item designation
1380654	FLT-MB-T1-264/12.5-1+1-UT
1380657	FLT-MB-T1-264/12.5-1+1-UT-R
1380658	FLT-MB-T1-264/12.5-3+0-UT
1380660	FLT-MB-T1-264/12.5-3+0-UT-R
1380661	FLT-MB-T1-264/12.5-3+1-UT
1380667	FLT-MB-T1-264/12.5-3+1-UT-R
1461299	FLT-MB-T1-264/25-1+1-UT
1461300	FLT-MB-T1-264/25-1+1-UT-R
1461301	FLT-MB-T1-264/25-3+0-UT
1461302	FLT-MB-T1-264/25-3+0-UT-R
1461303	FLT-MB-T1-264/25-3+1-UT
1461304	FLT-MB-T1-264/25-3+1-UT-R
0830292	GBS 3,5-25X12
0829126	GBS 5-25X5
1004348	KLM-A
3270543	LPO 35
3270542	LPO 35/E
3270621	LPS-16
3270620	LPS-16/E
1052463	MACX MCR-EX-RTD-I-C
2865751	MACX MCR-EX-T-UIREL-UP
2865722	MACX MCR-EX-T-UIREL-UP-C
2924799	MACX MCR-EX-T-UIREL-UP-SP
2924809	MACX MCR-EX-T-UIREL-UP-SP-C
2865654	MACX MCR-EX-T-UI-UP
2811763	MACX MCR-EX-T-UI-UP-C
2924689	MACX MCR-EX-T-UI-UP-SP
2924692	MACX MCR-EX-T-UI-UP-SP-C
1052472	MACX MCR-RTD-I-C
2811378	MACX MCR-T-UIREL-UP
2811514	MACX MCR-T-UIREL-UP-C
2811828	MACX MCR-T-UIREL-UP-SP
2811831	MACX MCR-T-UIREL-UP-SP-C
2811394	MACX MCR-T-UI-UP
2811873	MACX MCR-T-UI-UP-C
2811860	MACX MCR-T-UI-UP-SP
2811970	MACX MCR-T-UI-UP-SP-C
1157852	MINI MCR-EX-NAM-2T
3032826	PAI 1,5/4-F

Item number	Item designation
1176854	PLC-OPT- 24DC/230AC/2/ACT
1328360	PLC-RPT- 24DC/1/CB1-6
1328357	PLC-RSC- 24DC/1/CB1-6
2907922	PLT-SEC-T3-120-P-UT/PT
2907923	PLT-SEC-T3-230-P-UT/PT
2907920	PLT-SEC-T3-24-P-UT/PT
2907921	PLT-SEC-T3-60-P-UT/PT
2907929	PLT-SEC-T3-BE-FM-PT
3212696	PP-H 1,5/S/1-L RD
3212692	PP-H 1,5/S/1-M RD
3212695	PP-H 1,5/S/1-R RD
3031010	PS-3,5
3031012	PS-3,5/E
3030970	PS-4
3036709	PS-4/E
3038723	PS-5/2,3MM RD
3030996	PS-6
3038736	PS-6/2,3MM RD
3038749	PS-7,5/2,3MM RD
3031005	PS-8
3048564	PS-8/2,3MM RD
3040603	PSH 5-10/L100
2708588	PSI-MOS-RS232/FO1300 E
2708562	PSI-MOS-RS485W2/FO1300 E
1009831	PSR-MC38-2NO-1DO-24DC-SC
2981680	PSR-SPP- 24DC/URM4/4X1/2X2/B
1322453	PT 10 BK
1322456	PT 10 BN
1073992	PT 10-MT
2920065	PT 1X2-12DC/FM-ST
2920094	PT 1X2-24AC/FM-ST
2920078	PT 1X2-24DC/FM-ST
1446170	PT 2,5-2MTB
3210499	PT 2,5-3 L
3210509	PT 2,5-3 L BU
3210500	PT 2,5-L/L/N
3210541	PT 2,5-PE/L/L
2920146	PT 2X1-24AC/FM-ST
2920120	PT 2X1-24DC/FM-ST

Item number	Item designation
2856087	PT 2X1-24DC-ST
2880024	PT 2X1VA/S1-230AC-ST
2856799	PT 2X1-VF-120AC-ST
2800078	PT 4-24AC-ST
1077085	PT 6-FE
3212134	PT 6-HESI-EX (6,3X32)
3212135	PT 6-HESILED 24-EX (6,3X32)
3212137	PT 6-HESILED 250-EX (6,3X32)
3212136	PT 6-HESILED 60-EX (6,3X32)
3244410	PTIO 1,5/S/3
3244436	PTIO 1,5/S/3-LED 24 GN
3244423	PTIO 1,5/S/3-LED 24 RD
3209034	PTIO 1,5/S/3-L-R100K/O-M 120V
1349534	PTIO 1,5/S/3-L-R1K8/O-M
3244560	PTIO-IN 2,5/3-PE OG
3212455	PTTB 1,5/S/2P-PE
3213933	PTTB 1,5/S/2P-PV BU
3213881	PTTB 1,5/S/4P-PE
1467082	PTTB 2,5 BK
1459420	PTTB 2,5 BN
1459949	PTTB 2,5 YE
3210596	PTTB 2,5-PE
3211786	PTTB 4
3211793	PTTB 4 BU
3211792	PTTB 4 OG
3211791	PTTB 4 RD
3211794	PTTB 4 WH
3214496	PTTBS 1,5/S/2P/U-OG/O-GN
3214518	PTTBS 1,5/S/2P-PE
3214521	PTTBS 1,5/S/2P-PV
1079065	PTV 2,5-TG
1079069	PTV 2,5-TWIN-TG
1291928	PTV 6-QUATTRO BK
1116740	PTV 6-QUATTRO BU
1291930	PTV 6-QUATTRO GN
1291931	PTV 6-QUATTRO OG
1291927	PTV 6-QUATTRO RD
1375754	PTV 6-SG WH
1079061	PTVC 2,5-TG

Item number	Item designation
2901540	RAD-900-IFS
2702878	RAD-900-IFS-AU
3032168	RB UT 35-10
3035755	SB-ME 2-6
3034468	SB-ME 2-8
3035756	SB-ME 3-6
3032800	SB-ME 3-8
3035757	SB-ME 4-6
3034484	SB-ME 4-8
1290589	SB-MEA 2-8
1329592	SB-MEA 3-8
1329590	SB-MEA 4-8
1468048	SB-MEA 6-8
3000587	SB-MER 2-8
3000588	SB-MER 3-8
3000589	SB-MER 4-8
3042341	SC 2,5-NS/ 1-L GNYE
3061127	SP 2,5/ 6 NZ:4
3043103	SPB 2,5/ 1-L
3043116	SPB 2,5/ 1-L BU
3043129	SPB 2,5/ 1-L GNYE
3043132	SPB 2,5/ 1-M
3043145	SPB 2,5/ 1-M BU
3043158	SPB 2,5/ 1-M GNYE
3043161	SPB 2,5/ 1-R
3043174	SPB 2,5/ 1-R BU
3043187	SPB 2,5/ 1-R GNYE
3036055	ST 2,5-PE/3L
3209015	STIO 2,5/3-2B/L
3040915	STTB 2,5/2P-PE SO
1642452	TC-D37SUB-AI16-2EX-PS-ETHA
1642471	TC-D37SUB-AI8-EX-PS-ETHA/FS
1642470	TC-D37SUB-AO8-EX-PS-ETHA
1642199	TC-D37SUB-DI16-2EX-P-ETHA
1642217	TC-D37SUB-DI16-2EX-P-ETHA/FS
1642200	TC-D37SUB-DI32-2EX-P-ETHA
1159044	TRIO3-PS/3AC/24DC/20
1362791	TRIO3-PS/3AC/24DC/20/8C/IOL
0830340	UCT-EM (30X5) YE

Item number	Item designation
2775375	UDK 3
2718277	UDK 3 BU
2775016	UDK 4
2775249	UDK 4-DUR 249
2775250	UDK 4-DUR 499
2775210	UDK 4-MTK-P/P
3247446	UKH 240 1500V
3247447	UKH 240 1500V BU
3247462	UKH 70 1500V BU
1876615	UKK 3-MSTB-5,08-PE
3048030	UKK 5-2 BE
2791113	UKK 5-2DIO/O-UL/UR-UL
2791142	UKK 5-2DIO/UL-O/UL-UR
3070613	UKK 5-2R/1K4/UL-UR/10K/O-UL
2941662	UKK 5-2R/NAMUR
3048027	UKK 5-BE
2791016	UKK 5-DIO/O-U
2791029	UKK 5-DIO/UL-UR
2791032	UKK 5-DIO/U-O
3007204	UKK 5-HESI (5X20)
3007217	UKK 5-HESI (6,3X32)
3049000	UKK 5-HESILED 24 (5X20) 1MA
2791359	UKK 5-LA 230
2791320	UKK 5-LA 24 RD/U-O
3060157	UP 4/ 5
3057212	UT 2,5-QUATTRO GN
3057199	UT 2,5-QUATTRO RD
3057209	UT 2,5-QUATTRO YE
3074185	UT 4-HESILA 250 (5X20) GY
3057270	UT 4-MT-P/P GN
3057241	UT 4-QUATTRO GN
3057238	UT 4-QUATTRO YE
3057306	UT 4-QUATTRO-MT P/P GN
3057296	UT 4-QUATTRO-MT P/P YE
1466215	VAL-SPP-T2-275/40-3+1-UT
1466213	VAL-SPP-T2-275-3+1-UT
1466609	VAL-SPP-T2-385-3+1-UT
3070435	VBSTB 4-FS (6-2,8-0,8)
1446171	XTVMED 6-PE

Item number	Item designation
3246586	TPS 3/20/5
3048292	UK 5-MTK-P/P RD
3029538	UK 5-MTK-P/P OG
3048551	UK 5-MTK-P/P YE
3004087	UK 5-MTK-P/P MIT SPERRE
3048467	UDMTK 5
3048454	UDMTK 5-PL