

CADMATIC Electrical 2024T1 release notes

CADMATIC Electrical has three main releases annually. The release name identifies the publishing year, tertial (T1–T3), and possible patch update designation (R2 or higher). These release notes describe new features, improvements, and bug fixes made in software version 2024T1.

New features and improvements

Renewed user interface

In this release of CADMATIC Electrical, we are introducing a completely new user interface based on the ribbon. Within the ribbon, the functions familiar from the toolbars are now located in logical tabs and groups. The most essential functions are easily available, and the buttons also have the function name clearly shown. Furthermore, the buttons include a tooltip with a link to the instructions.

In addition to the new ribbon, the command line has been improved. It now takes up less space, leaving more room for the drawing area.

Other new features and improvements

Previously, we used the term "application" for the Electrical sub-applications Schematics, Layout, Distribution Board, and Cabinet Layout. We have now merged all the functions into a single Electrical application. Furthermore, we have organized the functions into toolsets based on the types of documents they are intended to create – in the ribbon, these toolsets are on their own tabs.

This software release contains the following new features and improvements. Some improvements only apply to certain application levels, and are marked as follows: ^P Premium, ^B Basic, ^L Lite.

Toolset	Category	Description
All	Terminology	<p>The following term changes have been applied:</p> <ul style="list-style-type: none"> • In Schematics, the term cable combing has been replaced with cable termination. • In Layout, the term fluorescent light has been replaced with linear light. • In Layout, the term raceway has been replaced with cableway. • In Layout, the term package symbol has been replaced with symbol group. • In Cabinet Layout, the term race-way has been replaced with duct. • In the project tree: <ul style="list-style-type: none"> ◦ Distribution boards and groups has been replaced with Distribution boards and feeders. ◦ Floors and spaces has been replaced with Storeys and spaces. • In DB Tool, the Reports function now consistently talks about reports instead of lists, for example: <ul style="list-style-type: none"> ◦ List options is now Report options. ◦ Create lists is now Create reports. ◦ Create separate lists from groups is now Create separate reports from groups.
All	Project settings	<p>Two new date formats, dd-mm-yyyy and d/m/yyyy, have been added to the Date format (default) menu options in the Common section.</p>
All	Project settings	<p>In the Common, symbols section, the new Mark 'To be deleted' cables into the drawing option</p>

Toolset	Category	Description
		allows the user to select whether to show the cables marked as to be deleted in the drawing.
All	Project settings	In the Wire markings, cable section, the new Cable termination connection data option allows the user to
All ^{P & B}	Project tree	<p>In the Documents project tree, it is now possible to close drawings via the project tree by right-clicking and selecting Close drawing.</p> <ul style="list-style-type: none"> • If you select to close the current document, the application and the drawing are changed. • If you select to close a drawing other than the current one, the application will not be changed.
All	Documents	<p>Some of the drawing types have been renamed to better indicate the significance of the drawing type versus application; the drawing type designates what can be done with that application. The main changes are the following:</p> <ul style="list-style-type: none"> • There is a new toolset called Single-line that covers the single-line functions that were previously in the Schematics application. In addition, the Distribution Board application has been incorporated into Single-line as its own toolset. • The document type associated with the Schematics application has been renamed to Multi-line. You can create all types of multi-line documents, such as connection diagrams, termination diagrams, and

Toolset	Category	Description
		<p>schematic style diagrams, with it.</p> <p>Due to the changes mentioned above, the Start a new Electrical drawing dialog has been renewed:</p> <ul style="list-style-type: none"> • You can open the function by selecting Electrical tab > Documents group > New. • The different drawing types are now grouped based on the application. • The new Single-line application drawing types, Single-line diagram and Load diagram, are grouped under Single-line. Furthermore, the former Distribution Board Schema drawing type has been renamed as Distribution board (table), and it is also located under Single-line. • The Layout application drawing types have been renamed: the former Layout drawing type is now Arrangement, and the former Layout, Schema drawing type is now Arrangement (not in scale). • The former Schematics application drawing type Schema has been renamed as Multi-line diagram.
All	Revisions	<p>You can now draw a revision cloud. The Cloud function is available on the Electrical tab, in the Revisions group.</p>
All	Symbols	<p>In the Symbols window, there is now a new button for showing the horizontal symbols.</p> <p>When inserting symbols, instead of a symbol-specific dialog (Coil insert, for example) the Symbol attribute dialog now opens regardless of the</p>

Toolset	Category	Description
		symbol type - however, the dialog naturally includes fields related to the selected symbol's type. (common > symbol_attribute_edit.htm)
All	Symbols	The following symbol editing functions are now available in the Symbols window: <ul style="list-style-type: none"> • Delete symbol • Move symbol • Move symbol and stretch wiring (not in Cabinet Layout) • Copy symbol • Edit symbol • Change symbol (not in Cabinet Layout)
All	Tables	The creation of a drawing list has been improved: <ul style="list-style-type: none"> • If there already are elements on the sheet when you start the function, the program asks if you want to create a new sheet. If you select to create the new sheet, the list is added there. • If the list continues to another sheet with elements on it, a new sheet is now created to fit the list.
All	Attributes	You can now sort the rows in the Edit values for copied objects dialog based on the desired information by clicking the column header.
Single-line	Toolset	A completely new toolset called Single-line has been added. <ul style="list-style-type: none"> • With Single-line, users can create various documents: single-line documents, load diagrams, and distribution diagrams.

Toolset	Category	Description
		<ul style="list-style-type: none"> • All the single-line functions that were previously included in Schematics are now in Single-line. Some new features, such as a new symbol library, have also been added. • The toolset includes the functions of the former Distribution Board application, as the distribution board document serves as a variant of a single-line document. • Customers who previously had the Schematics application will now automatically receive the new Single-line toolset and have access to all its functions.
Layout	Symbols	<p>The Insert symbol in operating sector function now allows users to create four types of sectors:</p> <ul style="list-style-type: none"> • Traditional sectors (angle of 1–359) • Full circle sector • Full circle sector with polygon inside it • Free form sector
Layout	Wiring	<p>With the Wire marking (automatic) function, the cable ID is now marked to the ID attribute of the marking symbol. By default, the attribute is hidden but can be shown by turning on ID attributes for symbols.</p>
Layout	Cableways (former Raceways)	<p>You can now edit both cableways and vertical cableways with the same Edit function that is located to the Cableways group on the Layout tab. The function opens the right editing function after you have selected the cableways to be edited.</p>
Layout	3D	<p>The visualization window has been renewed: The</p>

Toolset	Category	Description
		round tool menu has been replaced with a new toolbar. In addition, a viewcube tool is available for changing the view direction.
Layout	Distributions boards and groups	The Properties window did not always show the length value.
Layout	Spaces	Space information can now be read from the space objects in reference drawings.
Layout, Schematics	Integration	Information about deleted cables is now included in export. This way, it is possible to only update the cables in Plant Modeller, instead of synchronizing all changes.
Schematics	Attributes	There are two new functions in the auxiliary functions menu: <ul style="list-style-type: none"> • Hide attribute from all symbol's occurrences – With this function, it is possible to select a symbol and hide the attribute from all the symbol's occurrences. • Show attribute from all symbol's occurrences – With this function, it is possible to select a symbol and show the attribute for all the symbol's occurrences.
Schematics	Wiring	With the new Show text option in cable termination pair shield settings, you can select to either show or hide the pair shield text.
Schematics	Wiring	Removing cable terminations and cable termination occurrences has been improved: Removing the determining element also removes the connections. If the other end of the cable termination has been connected and the

Toolset	Category	Description
		other not, the reference is not removed from the unconnected end.
Distribution Board	Symbol packages	Updating symbol packages after symbols have been removed has been improved.
Electrical DB ^P	Usability	The performance of the application has been improved.
Electrical DB ^P	Usability	Drop-down menus where filtering is possible (in the grid, for example) have been improved to be case-insensitive, i.e. you now get the same search results when typing uppercase and lowercase letters.
Electrical DB ^P	Management	A new function, Type definitions , has been added to the Management tab. This function allows the user to add their own device types into the database, and then define them to the devices on the Devices tab or in the Device properties dialog.
Electrical DB ^P	Grids	It is now possible to collapse and expand all grouped data rows by right-clicking in the grid or auxiliary grid and selecting Collapse all rows and Expand all rows .
Electrical DB ^P	Terminal blocks	On the Terminal blocks tab, in the Incoming wires and Outgoing wires columns, the values are now represented as follows: [cable ID or wire type] : [wire number] [wire color] ([from/to device full ID:pin]).
Electrical DB ^P	Documents	It is now possible to change the document name from the label rows with the Rename option.
Electrical DB ^P	Documents	If a project document is not found in the project directory but it is in the project database, it is

Toolset	Category	Description
		marked with red on the Documents tab. In the project tree on the drawing side, the document is marked with gray.
Electrical DB ^P	Groups	You can now select several feeders for which you want to create the same protective device. If you select feeders that already have a protective device, they are edited according to your definitions.
Electrical DB ^P	Groups	The Schematics column has been added, and it can be selected to be shown in the grid with the Show columns function.
Electrical DB ^P	Customer IDs	It is now possible to generate the desired kind of dynamic customer ID also for cable packages.

Bug fixes

This software release contains the following bug fixes.

Toolset	Category	Description
All	Labels	When inserting label symbols, the coordinates were not always taken into account when the symbol had a language ID.
All	Settings	The symbol standard and location settings were not correctly saved if the drawing was not in a project.
All	Tables	When creating drawing lists, the rows did not always fit on the sheets, resulting in overlapping rows.
Layout	Wiring	The wiring marking settings defined in the Wiring dialog were not applied when drawing.

Toolset	Category	Description
Layout	Wiring	Starting to edit wiring information from the drawing sometimes crashed the application.
Layout	Wiring	Cable package marking was not shown correctly if there was an overlapping wiring onto the marking was added.
Layout	Wiring	Neutral conductor and protective earth were drawn even though PEN was selected.
Layout	Wiring	The Connect symbols to wiring function broke wiring marks and added them incorrectly.
Layout	3D	In 3D part generation, selecting cables and tubes to be generated crashed the application.
Layout	3D	In IFC export, editing one piece of product information affected multiple pieces of product information.
Layout	3D	All cableway types were exported to IFC even when they had not been selected.
Layout	Cableways (prev. Raceways)	Sometimes making a gap to a cableway crashed the application.
Layout	Devices	When changing device size according to an occurrence, the Z size was not taken into account for 3D symbols.
Layout	Symbols	If user saved their own symbol with special characters in the name, the symbol was saved but not available in symbol menus.
Layout	Symbols	Symbols did not always work correctly when the product model had an address as additional information.

Toolset	Category	Description
Layout	Symbols	The application was slow with a large number of symbols.
Schematics	Wiring	The wire ID was not changed when wiring through a symbol.
Schematics	Wiring	Deleting a wire in wire properties and then editing it via the project tree resulted in an error.
Schematics	Wiring	When adding a reference with the Draw this wire function, the wire data of the wire being drawn disappeared.
Schematics	Wiring	In wiring and cable combing, starting cable type management resulted in the application crashing when the drawing was not in a project.
Schematics	Wiring	The application sometimes crashed when drawing cable termination (prev. cable combing).
Schematics	CAD reports	Unnecessary rows were sometimes created in CAD reports.
Schematics	Single-line	It was not possible to insert a feeder symbol via the Distribution boards and groups project tree when the symbol was assigned to the feeder.
Schematics	Terminal blocks	When a terminal block was inserted on wiring, the wiring was not cut below the symbol.
Schematics	I/O	The station ID was not updated to the drawing if the ID had been created via the I/O card property dialog.
Schematics	References	References to contactors representing multiple parts were not shown correctly in PDFs.
Schematics	Boundaries	Adding additional information for a location boundary resulted in the application crashing.

Toolset	Category	Description
Schematics	Attributes	The length of the common attribute value was not checked which resulted in an error when opening a drawing.
Schematics	Product models	When the product model was removed from an I/O card the channels were also removed even though that had not been selected.
Layout, Schematics	Integration	User-defined system information was not shown when mapping systems.
Layout, Distribution Board	Distribution boards and groups	In Distribution board and group management , zeroes were removed from the beginning of group numbers in connection with copying.
Layout, Distribution Board	Distribution boards and groups	In Distribution board and group management , the Move to another distribution board function allowed inserting another distribution board's group to a different distribution board's drawing.
Layout, Distribution Board	Distribution boards and groups	When the drawing was not in a project, checking the group numbers did not work correctly. Therefore, when adding a group that was already in the drawing no notification was given.
Layout, Distribution Board	Distribution boards and groups	In Distribution board and group management , column headers were incorrect if Electrotechnical calculations was not selected.
Cabinet Layout	Terminal blocks	The Terminal strip to drawing function did not use the symbol defined in product information.
Cabinet Layout	Frames/Sheets	The Set sheet function did not change the scale for the drawing frame.
Cabinet Layout	3D	With product model devices, the wrong 3D symbol was used.

Toolset	Category	Description
Electrical DB ^P	Structure	It was possible to save changes even when the database structure was not up-to-date.
Electrical DB ^P	Settings	When using picking lists, the description was taken to the database instead of the value.
Electrical DB ^P	Properties	Wiring properties and circuit properties were not always saved correctly.
Electrical DB ^P	Properties	Locking of planning area and device type information worked differently in the grid and the Device properties dialog.
Electrical DB ^P	Devices	When the product model was changed in device properties, the product model information was not updated in the drawing.
Electrical DB ^P	Product models	Updating or replacing a product model sometimes resulted in an error.
Electrical DB ^P	Product information	When adding the same product information, the previous definitions were removed instead of increasing the quantity.
Electrical DB ^P	Product information	When replacing product information, a new piece of information was created when the selection included information that did not exist yet.
Electrical DB ^P	Product information	Product information was not copied from a cable along with the cable.
Electrical DB ^P	Additional information	If there were two pieces of additional information with the same attribute, they were not updated correctly.
Electrical DB ^P	Documents	Removing a document from the project sometimes resulted in an error.
Electrical DB ^P	Reports	If there were special characters in the target directory, the application crashed.

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Electrical DB ^P	Reports	Creating a report resulted in an error if another document was open in Excel at the same time.
Electrical DB ^P	Reports	If the absolute path led to the project folder or its sub-folder, reports from the project copies were also stored to the original project.
Electrical DB ^P	Modular generation	Removing already generated material in Windows Explorer and then starting generation for the same material again resulted in an error.
Electrical DB ^P	Modular generation	When several cells were selected for the Assign to template drawing function, only the first value was applied.