



# CADMATIC Electrical

Release information | 2021T1

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## Release information

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The release notes for CADMATIC Electrical version 2021T1 are described in this document.

The following conventions apply to these release notes:

- Filenames, pathnames and environment variables are in *italics*.
- Commands, options, dialog names, and menu choices shown in the user interface are in **bold**.

# Cabinet Layout

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## New and improved features

Race-ways	<p>Drawing and modifying installation rails have been improved.</p> <ul style="list-style-type: none"><li>• In the <b>Draw installation rail</b> dialog, you can enter the rail length. Alternatively, you can choose to indicate the length from the drawing.</li><li>• An option to modify installation rails has been added to the toolbar and in the context menu.</li><li>• The modifying function opens the <b>Modify installation rail</b> dialog, which is similar to the drawing dialog.</li></ul>
Help	<p>The help functionality has been renewed.</p> <p>A new help technology has been taken into use. The technology used previously showed help topics in a separate help window, which was installed with the CADMATIC software. The new technology shows help topics in user's default browser (Edge, Firefox, or Chrome, for example ). The help topics are now easier to read, and especially the search operations are much more comprehensive than before. In terms of using the software, the help works as before: the help topics open with the <b>Help</b> buttons in the dialogs and the <b>Context Help</b> command.</p>

## Fixed bugs

- When inserting devices from the project tree, device's size information was not taken into account.
- Inserting user's own terminal strips did not work.
- When using Draw Lite, downloading Electric.dll did not work.

# Distribution Board

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## Bug fixes

- Changing the drawing frame to the default did not work correctly. The drawing frame language is now primarily based on the distribution board schema template, instead of the design language.

# Layout

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## New and improved features

Scalable symbols	<ul style="list-style-type: none"><li>• When defining a scalable symbol, you can now select whether to show the ID attribute or not. Selecting this will automatically show the ID for lighting fixtures, for example.</li><li>• A number of new scalable symbols are now available.</li></ul>
System selection	In system selection, you can now select <b>Only user's systems</b> to show only your own systems in the list.
System ID	The system ID has been removed from the list of systems in the whole user interface (in the English user interface only).
Storey settings	<p>The storey settings are now more comprehensive:</p> <ul style="list-style-type: none"><li>• You can now define more than one file for one storey, and separate them with the planning area information- You can then divide the planning areas into separate files, and different users can work on the same storey at the same time.</li><li>• You can create storeys without defining files for them. This way, you can create the storey settings into the project in advance and add the file later.</li><li>• The form of the planning area text (= system) is free. You can only have one document for each system per storey but you can several different systems.</li></ul>
3D drawing functions	The toolbar for the 3D drawing functions has been renewed. The toolbar now includes buttons for the functions that are most often used, such as easy ways to switch between the 2D and 3D views.
Reference drawings	When a reference drawing, PDF reference drawing or an IFC reference drawing is inserted from the reference drawing tree, it is placed to the AREF layer.
Setting files	<ul style="list-style-type: none"><li>• The new E_2021T1 settings file colors match YTV2012.</li><li>• Latvian and Lithuanian settings files have been renamed to Latvian.ase</li></ul>

	<p>and Lithuanian.ase.</p> <ul style="list-style-type: none"> <li>• The Estonian settings file has been updated with the same settings as in the other files, and the colors have been changed to match Estonian requirements.</li> <li>• Three printing styles have been added (Finnish and English): black &amp; white, black &amp; white PDF, and color.</li> </ul>
Help	<p>The help functionality has been renewed.</p> <p>A new help technology has been taken into use. The technology used previously showed help topics in a separate help window, which was installed with the CADMATIC software. The new technology shows help topics in user's default browser (Edge, Firefox, or Chrome, for example ). The help topics are now easier to read, and especially the search operations are much more comprehensive than before. In terms of using the software, the help works as before: the help topics open with the <b>Help</b> buttons in the dialogs and the <b>Context Help</b> command.</p>

## Bug fixes

- Drawing a race-way did not always stop when right-clicking.
- Continuing a race-way with the + sign did not work correctly when AltGr was pressed down.
- A part of the product model icon was not shown in product model management.
- When inserting a label in a layout, the scale of the preview icon was incorrect.
- Opening a project prompted an error: Index was outside the allowed area.
- In 3D generation, the layers of race-ways were not turned on after generation.
- In some situations, the position attribute was turned on instead of the ID.
- The preview for inserting a symbol showed the position sign.
- When exporting to IFC, the + sign cannot be removed from the distribution board name. Exporting location and ID data to IFC has been changed so that the prefix is taken from the project's settings.
- The width of attribute text for a scalable lighting fixture STPVALNX was not good. The width scale was changed to 0.85.
- Fire detector diagram did not work, if device had an address in the general attributes.
- Inserting a symbol in wiring opened the **Other symbols** menu.

- There were problems with copying a symbol when adding information for an occurrence in a drawing.
- Changing the product model to the product model of a scalable symbol caused problems.
- Showing the information text for a reference drawing was slow.
- Opening the symbol package function was slow.
- The electrical symbol descriptions worked slowly.
- A symbol converted to an Electrical symbol lost elevation data afterwards.
- Copying symbols from product models to the clipboard and undoing removal created product model duplicates.

# Schematics

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## New and improved features

Drawing lines	In line drawing functions, such as cable combining and cable schema, polyline is now used instead of a line.
Excel links	<p>Creating Excel links has been improved:</p> <ul style="list-style-type: none"> <li>• You can copy links to the clipboard.</li> <li>• Only the row numbers found from Excel are listed.</li> <li>• Linked fields are remembered.</li> <li>• The numbers already in the template drawing are shown.</li> <li>• Selecting a field by double-clicking in both the field list and the row number list is possible.</li> </ul>
I/O	The width factor of I/O symbol attributes has been changed to 0.85, which is in use for other schema symbols.
Help	<p>The help functionality has been renewed.</p> <p>A new help technology has been taken into use. The technology used previously showed help topics in a separate help window, which was installed with the CADMATIC software. The new technology shows help topics in user's default browser (Edge, Firefox, or Chrome, for example ). The help topics are now easier to read, and especially the search operations are much more comprehensive than before. In terms of using the software, the help works as before: the help topics open with the <b>Help</b> buttons in the dialogs and the <b>Context Help</b> command.</p>

## Bug fixes

- Unnecessary functions have been removed from the context menus.
- In SQL queries, the WHERE clauses were missing the uni-code prefix N in SQL Server usage.
- Drawing frame position lost the prefix when generating a CAD list.
- Attaching a drawing to a project removed part numbers from attachment symbols.
- Linking of location boundary and cable marking did not work correctly.



- Previewing the drawing module only did not work.
- Modular generation of drawings only did not remove temporary drawings.
- Sometimes generating with drawing modules only caused all sheets to go on top of each other when changing the sheet.
- Duplicate locations were created when modifying locations from the project tree.
- Clearing the date did not work in DB Tool.
- There were errors in inserting/copying I/O symbols.
- When saving and closing a drawing, the symbol folder was not created for the project.
- If there were no drawings in the project database and you tried to rename project's drawing file, an error about the file being in use was shown.
- Problems in copying I/O card channel occurrences has been fixed.
- Adding a symbol to a product model caused problems with the pin order.
- Cross-reference information added with the **Insert object info to drawing** function did not work correctly.
- The + sign for the device pin is not shown in cable combining.
- The **Move to other end of reference** function has been fixed in Electrical Lite (when reference made with Pro or Standard).
- The SL queries related to updating and removing project's product information pins and additional information did not work correctly.
- Drawing of cable combining with pair shield has been fixed.
- Queue printing was only able to combine drawings with sheets. Now you can have drawings with or without sheets in the same PDF.
- Showing customer ID on terminal blocks has been fixed.

## Electrical DB

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### New and improved features

I/O and I/O cards	<p>Managing I/Os has been renewed. The I/O functions have been moved from the separate configuration tool to the DB tool, which takes the usability to a new level.</p> <ul style="list-style-type: none"><li>• The user interface is similar to other functions in the DB tool.</li><li>• I/O cards are defined as product models, so they connect to product information better than before. In project conversion, the old I/O card definitions are copied to the projects and converted to product models automatically, if the old card definitions are available.</li><li>• When defining I/O cards, you can also utilize other product model features, such as symbols and additional information.</li><li>• You can connect I/Os with the I/O card channels using drag-and-drop, in the same tool as other project management functions.</li><li>• It is also possible to create I/O cards in Schematics, with the new database function <b>Create a new I/O card</b>.</li></ul>
Import functions	<p>The import functions have been renewed. Especially the clearer import definitions offer better usability.</p> <ul style="list-style-type: none"><li>• The import definition management user interface is similar to other management functions.</li><li>• You can easily share definitions from one project to another either directly or via the shared database. It has been possible to share other project definitions, such as product models, in the same way.</li><li>• Importing different object types is more versatile than before. The different object types are on their own tabs in the user interface. The tabs are the same as in other DB Tool functions.</li><li>• The information to be imported from an Excel file can be on separate sheets. This makes sorting of information easier, and reduces the amount of recurring data.</li><li>• You can define the new device to be created according to a product</li></ul>

	<p>model. This way, importing a list of device IDs only creates lots of information to the project, when some items, such as the symbol to be used, is created from the product model information.</p> <ul style="list-style-type: none"> <li>• When reimporting updated lists, you can see in the preview what the import will create. You can then decide whether to replace project information with the imported information. The user interface will also tell you if the source data is deficient, so that you can fix it before importing.</li> </ul>
Editing and copying cables	It is now possible to indicate the <b>From</b> and <b>To</b> information from the drawing when editing cables in the <b>Cable properties</b> dialog. Indicating is also possible when selecting to copy cables from the project tree.
Cable type details	The <b>Replacing product</b> column has been added to the <b>Cables</b> tab. You can use that column to change the cable label. You can also define the new value in the <b>Cable type details</b> dialog, in the <b>Replacing product</b> field.
Reports	You can now edit reports in any language regardless of the original project and report language.
Management tools	In the management tools, it is now possible to move rows from <b>Other project</b> to <b>Shared database</b> by right-clicking and selecting <b>Add to shared database</b> .
Help	<p>The help functionality has been renewed.</p> <p>A new help technology has been taken into use. The technology used previously showed help topics in a separate help window, which was installed with the CADMATIC software. The new technology shows help topics in user's default browser (Edge, Firefox, or Chrome, for example ). The help topics are now easier to read, and especially the search operations are much more comprehensive than before. In terms of using the software, the help works as before: the help topics open with the <b>Help</b> buttons in the dialogs and the <b>Context Help</b> command.</p>

## Bug fixes

- If a circuit was in a label, the occurrence did not show in DB and it was possible to delete the circuit.
- Copying projects as temporary did not work.
- It was possible to select incorrect customer ID fields for cables. These fields were removed.
- When importing from a clipboard project, I/Os were incorrectly connected.
- Importing to the shared database did not clear the file value for SQL Server.
- The cleaning function did not clean the duplicates from the Hierarchy binding table.
- Changing pin values in Excel was not updated to the drawing.
- It was not possible to replace device's product information, when the replacement had the same product information label but a different reference.
- It was possible to enter forbidden characters for the ID in device properties.
- When using Access database engine 2016 with Office365 installed, changing of database structure was not possible.
- In SQL Server, the product databases created by the user were not imported.
- Copying product database additional information from MDB to SQL did not work.