

CABLEMANAGER

NEWS DOCUMENT VERSION 8



Overview of cables and cable ways – from design phase to service & maintenance

This document is a quick walk through the new functions in Cablemanager version 8.

Developed by PCSHEMATIC A/S

Last edit June 2024



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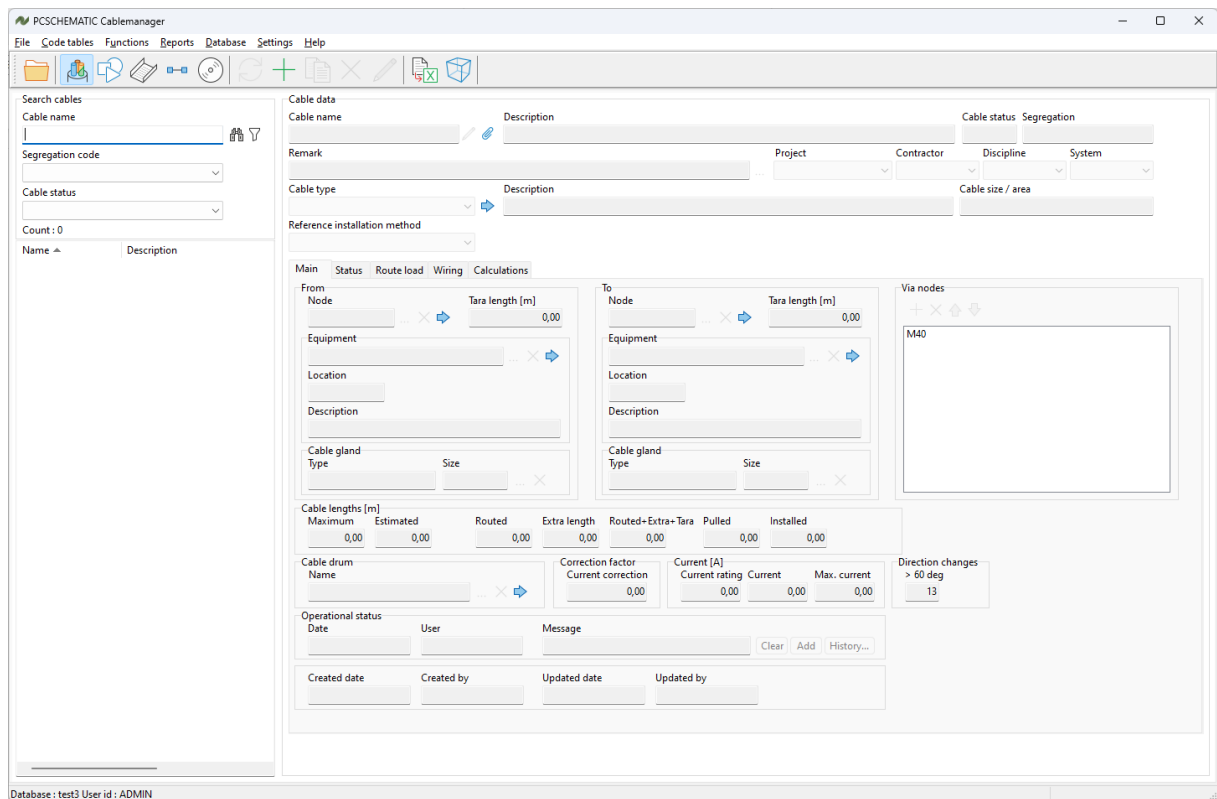
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NEW LOOK AND OTHER SMALLER UPDATES

Ver 8 has got new icons, and icons come from the same design line as we have in our Automation program. ⁱ

You can see the icons below.



DWG setup

DWG setup has been updated to newest released version 22.x, which is the same version that is included with our Automation software.

If you had installed a newer version of it before installing Cablemanager, you would get an error message during installation. The function was ok, though.

SQL-server

We now support Microsoft's OLE DB driver for SQL server. ⁱⁱ

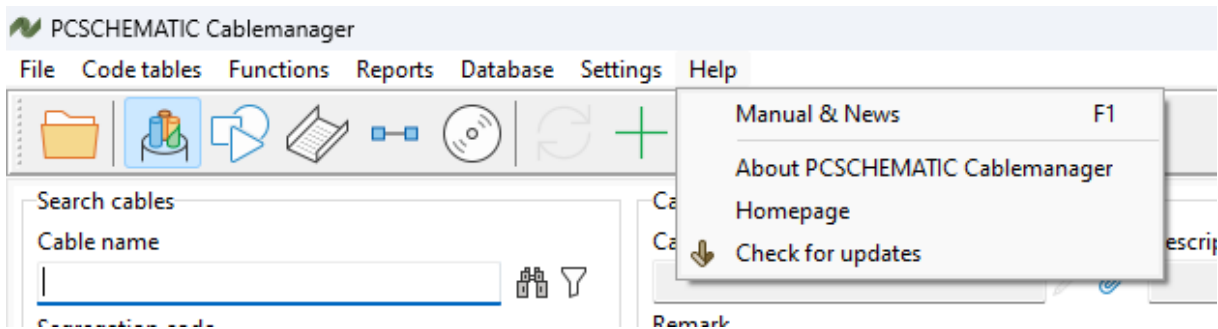
PCS License Server

PCS License has been updated to latest version. ⁱⁱⁱ

The new license will also show expire dates in the License Manager. ^{iv}

Help menu has been changed ^v

According to the new design, we have also changed the Help menu, so that it directs the user to our website instead of local documents. ^{vi}



Manuals and News

- Links to the relevant page on our website
- Manuals and news are found here. The solution allows us to update the manuals quickly.

About PCSCHMATIC Cablemanager

- Shows version number

Homepage

- Goes directly to our website

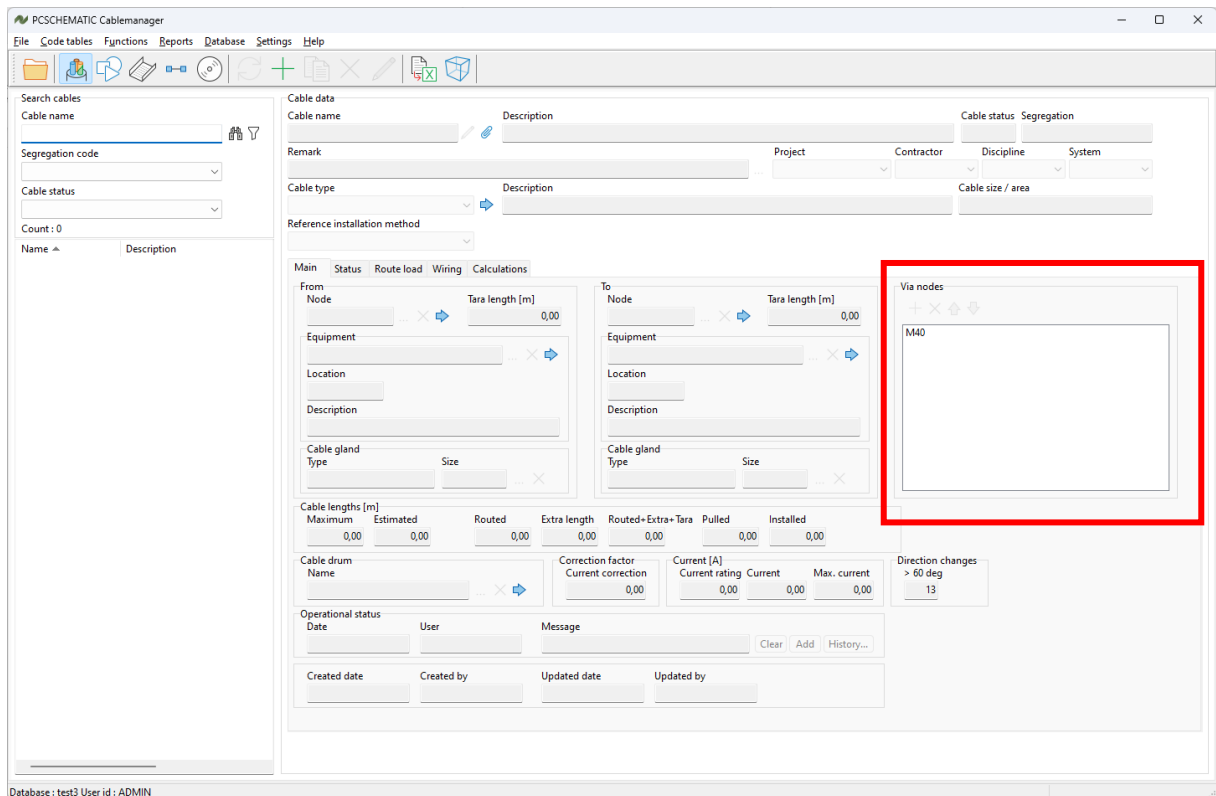
Check for updates

- Searches for updates



Via nodes is wider ^{vii}

The window in which you can see via-nodes has become wider. A lot of users have very long node names, and the window didn't have space for them earlier.



There was an error in the previous version where via-nodes weren't respected with batch route. This has been corrected. ^{viii}

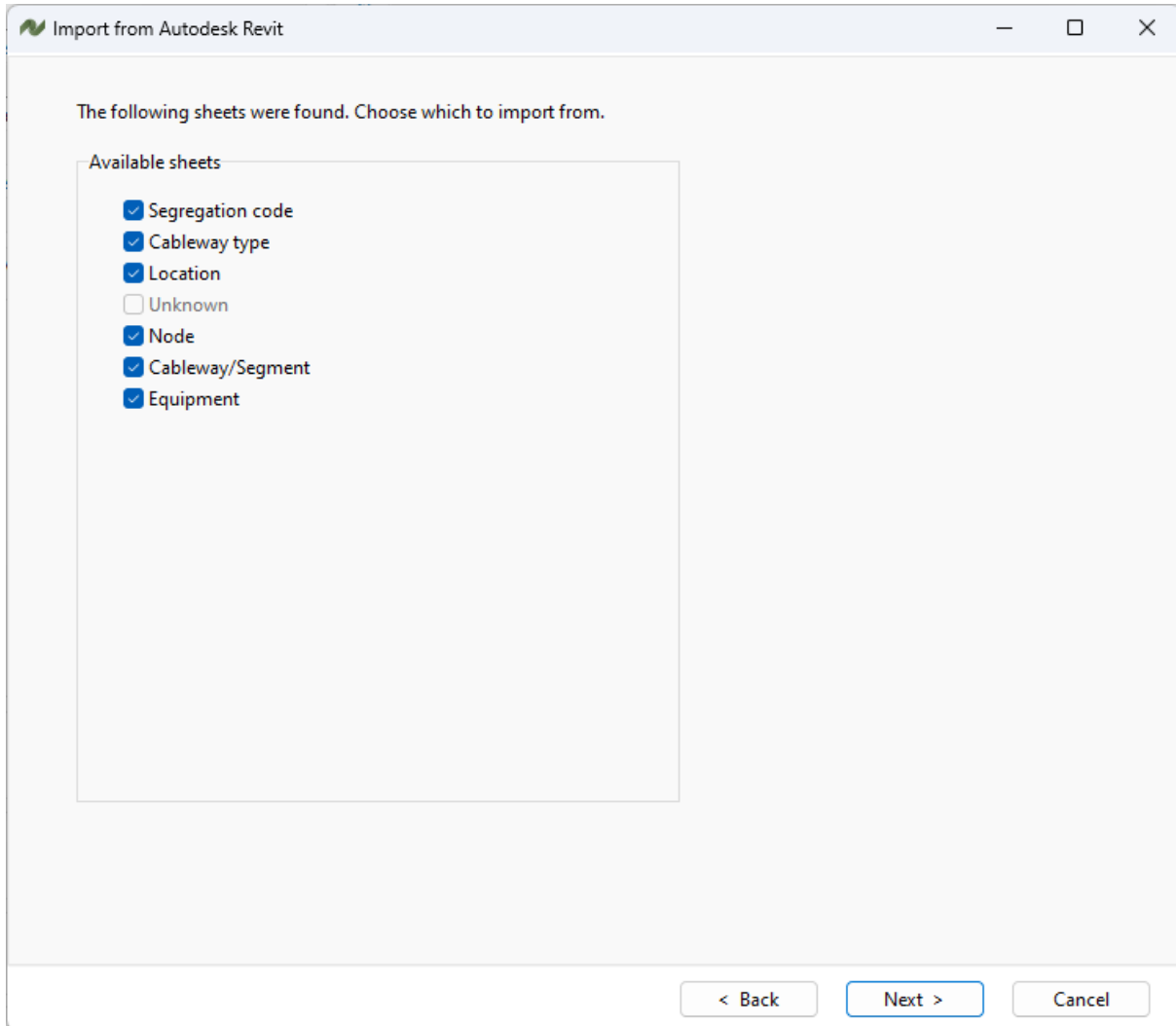
Other smaller updates

Some dialogs were not fully 4K ready. This should also be changed in this version. ^{ix}

IMPORT FUNCTIONS

It is possible to import Equipment from Revit

When you import data from Revit, you can also import Equipment from this version. If it is included in the Revit project.

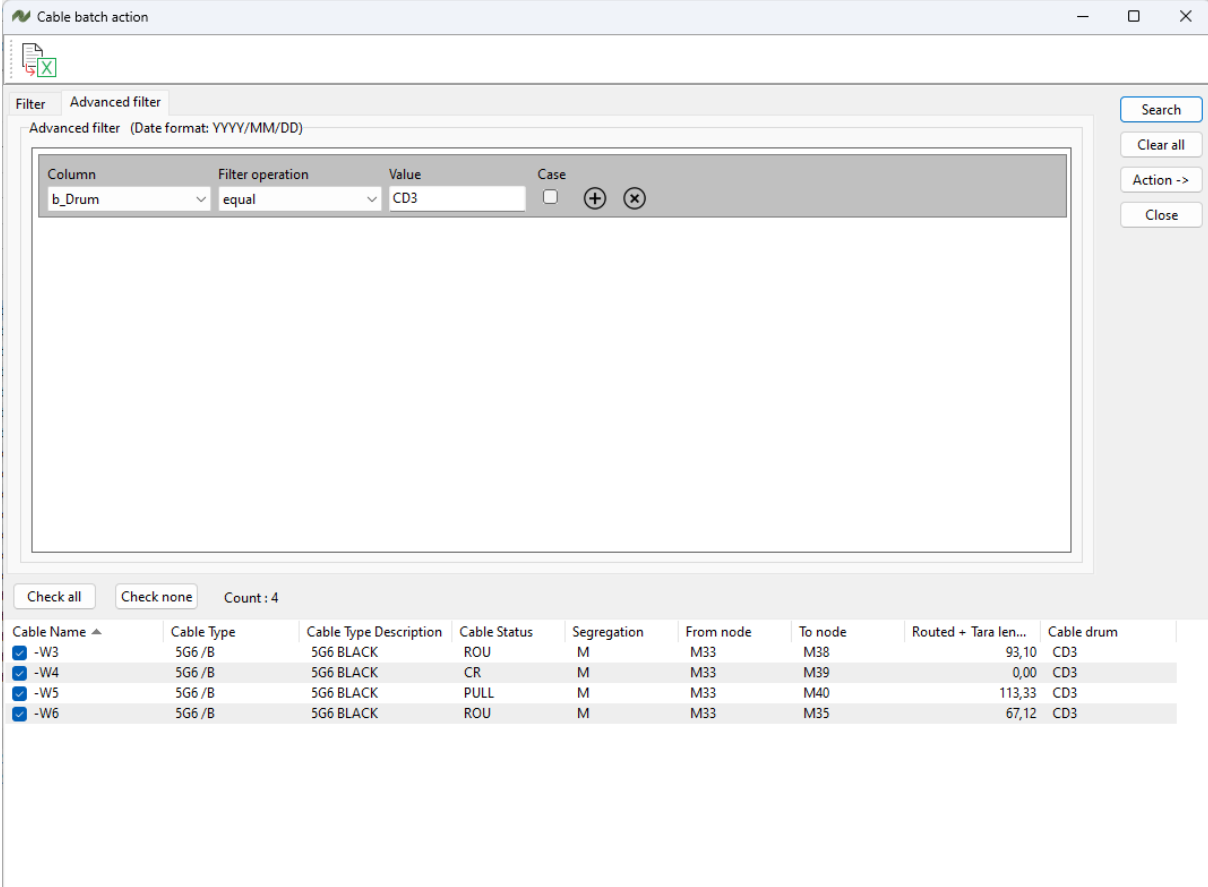


REPORT FUNCTIONS

There are always a lot of wishes for new report functions.
So most versions come with new functions in this area.

You can search for cables on specific cable drums^x

In Cable batch action, you can find cables from specific drums when using the Advanced filter:



The screenshot shows the 'Cable batch action' window. The 'Advanced filter' tab is active, showing a filter rule: 'b_Drum' equal to 'CD3'. Below the filter, there are buttons for 'Check all', 'Check none', and 'Count : 4'. A table displays the filtered results:

Cable Name	Cable Type	Cable Type Description	Cable Status	Segregation	From node	To node	Routed + Tara len...	Cable drum
<input checked="" type="checkbox"/> -W3	5G6 /B	5G6 BLACK	ROU	M	M33	M38	93,10	CD3
<input checked="" type="checkbox"/> -W4	5G6 /B	5G6 BLACK	CR	M	M33	M39	0,00	CD3
<input checked="" type="checkbox"/> -W5	5G6 /B	5G6 BLACK	PULL	M	M33	M40	113,33	CD3
<input checked="" type="checkbox"/> -W6	5G6 /B	5G6 BLACK	ROU	M	M33	M35	67,12	CD3

Segment list reports ^{xi}

A Segment list report can contain a lot of data regarding the Cableways / Segments.

In this view you select the Segments you want to list, and when you click OK, you select more details for the PDF report.

General data

Node connection name: Segment name: Segregation: M Main

From location: Cableway type: CM_TRAY1 Cable tray 50 x 450

Count : 32

Node connection name	Node connection description	Segment name	Cableway type	Segregation co...	From node	To node	Offset from [m]
<input checked="" type="checkbox"/> M1-M2	M1M2	Segment	CM_TRAY1	M	M1	M2	z:0,3
<input checked="" type="checkbox"/> M1-M2	M1M2	Segment	CM_TRAY1	M	M1	M2	
<input checked="" type="checkbox"/> M2-M3	M2M3	Segment	CM_TRAY1	M	M2	M3	
<input checked="" type="checkbox"/> M3-M4	M3M4	Segment	CM_TRAY1	M	M3	M4	
<input checked="" type="checkbox"/> M4-M5	M4M5	Segment	CM_TRAY1	M	M4	M5	
<input checked="" type="checkbox"/> M6-M7	M6M7	Segment	CM_TRAY1	M	M6	M7	
<input checked="" type="checkbox"/> M6-M9	M6M9	Segment	CM_TRAY1	M	M6	M9	
<input checked="" type="checkbox"/> M7-M100	M7M8	Segment	CM_TRAY1	M	M7	M100	
<input checked="" type="checkbox"/> M9-M10	M9M10	Segment	CM_TRAY1	M	M9	M10	
<input checked="" type="checkbox"/> M11-M12	M11M12	Segment	CM_TRAY1	M	M11	M12	
<input checked="" type="checkbox"/> M11-M100		Segment	CM_TRAY1	M	M11	M100	
<input checked="" type="checkbox"/> M12-M13	M12M13	Segment	CM_TRAY1	M	M12	M13	
<input checked="" type="checkbox"/> M13-M14	M13M14	Segment	CM_TRAY1	M	M13	M14	
<input checked="" type="checkbox"/> M14-M15	M14M15	Segment	CM_TRAY1	M	M14	M15	
<input checked="" type="checkbox"/> M15-M16	M15M16	Segment	CM_TRAY1	M	M15	M16	
<input checked="" type="checkbox"/> M16-M17	M16M17	Segment	CM_TRAY1	M	M16	M17	
<input checked="" type="checkbox"/> M17-M18	M17M18	Segment	CM_TRAY1	M	M17	M18	
<input checked="" type="checkbox"/> M18-M19	M18M19	Segment	CM_TRAY1	M	M18	M19	
<input checked="" type="checkbox"/> M20-M21	M20M21	Segment	CM_TRAY1	M	M20	M21	

And from ver8, you can list all cables, and details for them. ^{xii}

Save to folder: C:\KH-dokumente\CM8-test\

Document number: Language: English

Revision:

Project no:

Project name:

Extra footer:

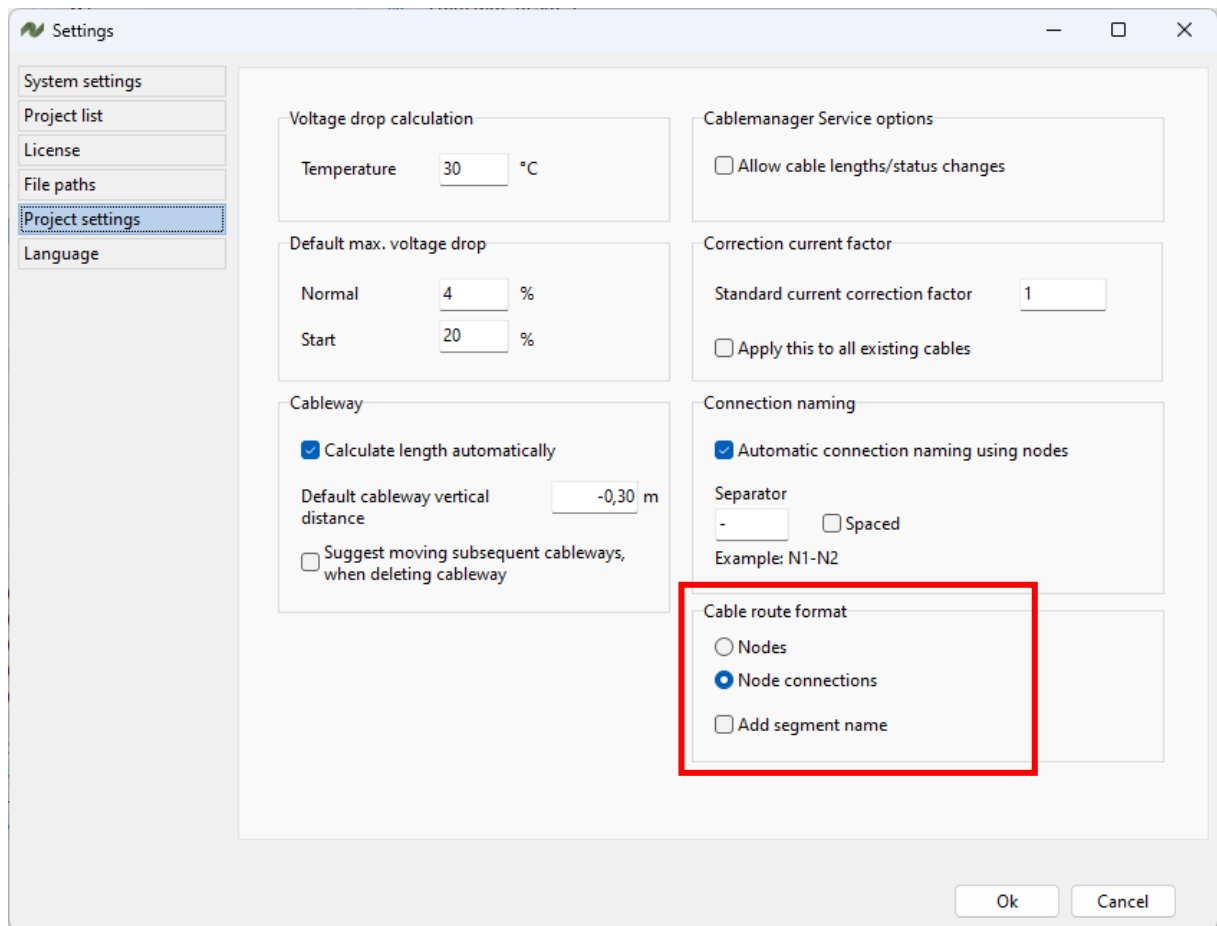
List cables
 Cable details



Cable report route format ^{xiii}

When you make Cable pulling cards and Cable list reports, you may want to see the route in different ways.

The Project Settings now include a selection of the desired format.



Logos in reports

Problem with logos on Cable batch reports has been fixed. ^{xiv}

Remember, that logos are in *.bmp-format.

MORE INFORMATION

When customers start using the program, a lot of wishes to extra functionality comes up. Below are the new functions on the main categories.

More information on cables

We show how many bends >60 ° are on the cable

This makes it possible to identify cables, where you might add extra length.

The screenshot shows the PCSHEMATIC Cabledmanager software interface. The main window displays cable data for a specific cable, including its name, description, status, and segregation code. A table on the left lists various cable segments with their descriptions. The central part of the interface shows detailed cable data, including cable type, reference installation method, and route fill/load options. Below this, there are sections for cable lengths (Maximum, Estimated, Routed, Extra length, Routed+Extra+Tara, Pulled, Installed) and cable drum information (Name, Correction factor, Current rating, Current, Max. current). A red box highlights the 'Direction changes > 60 deg' field, which shows a value of 13. The bottom of the interface includes operational status, user information, and creation/update dates.

Name	Description
-W1	From MDP to SDP 1
-W2	From MDP to SDP2
-W3	From MDP to LP1
-W4	From MDP to LP2
-W5	From MDP to MCP1
-W6	From MDP to MCP2
-W7	From MDP to E1 (in A1)
-W8	From LP1 to E2 (in A3)
-W9	From LP1 to E3 (in A3)
-W10	From LP1 to E4 (in A3)
-W11	From LP1 to E5 (in A3)
-W12	From LP2 to E6 (in A2)
-W13	From LP2 to E7 (in A2)
-W14	From LP2 to E8 (in A2)
-W15	From SDP1 to machinery M1 (...)
-W16	From SDP1 to machinery M2 (...)
-W17	From SDP1 to machinery M3 (...)
-W18	From SDP2 to machinery M4 (...)
-W19	From SDP2 to machinery M5 (...)
-W20	From MCP1 to machinery M1 (...)
-W21	From MCP1 to machinery M2 (...)
-W22	From MCP1 to machinery M3 (...)
-W23	From MCP2 to machinery M4 (...)
-W24	From MCP2 to machinery M5 (...)

Maximum	Estimated	Routed	Extra length	Routed+Extra+Tara	Pulled	Installed
0,00	0,00	180,03	0,00	187,03	0,00	0,00

Name	Correction factor	Current [A]	Current rating	Current	Max. current
	1,00	0,00	0,00	0,00	0,00

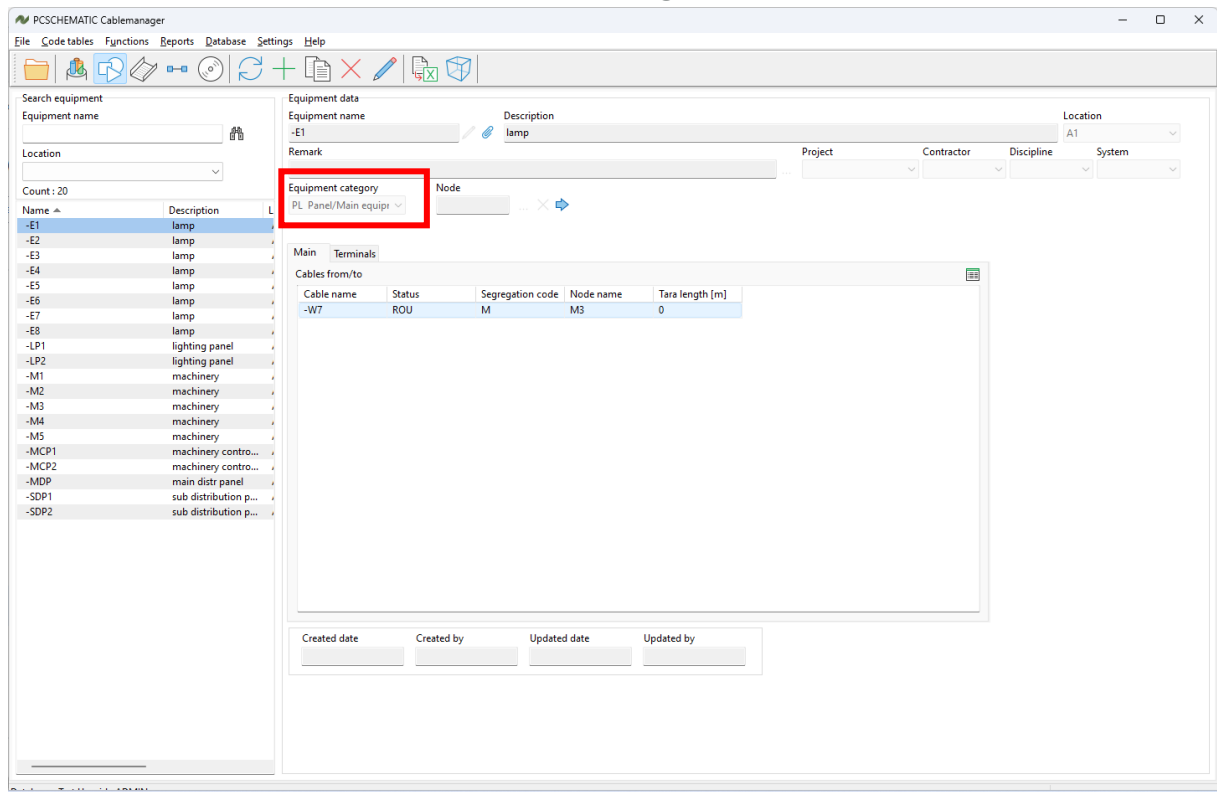
Direction changes > 60 deg: 13



Equipment categories

We have introduced equipment categories, to be able to setup rules for different types of equipment.

We haven't made a lot of rules – yet – but the categories are here.



More functionality on cableways

Project setting: Deleting cableway

There is a new option in Project settings:

When you delete a cableway, you can choose whether Cablemanager moves the subsequent cableways or not. This depends of the checkbox.

The screenshot shows the 'Settings' dialog box with the 'Project settings' tab selected. The 'Cableway' section contains a checkbox labeled 'Suggest moving subsequent cableways, when deleting cableway', which is highlighted with a red rectangular box. Other settings include 'Calculate length automatically' (checked), 'Default cableway vertical distance' (-0,30 m), 'Voltage drop calculation' (Temperature: 30 °C), 'Default max. voltage drop' (Normal: 4 %, Start: 20 %), 'Cablemanager Service options' (Allow cable lengths/status changes: unchecked), 'Correction current factor' (Standard current correction factor: 1, Apply this to all existing cables: unchecked), 'Connection naming' (Automatic connection naming using nodes: checked, Separator: -, Spaced: unchecked, Example: N1-N2), and 'Cable route format' (Nodes: unselected, Node connections: selected, Add segment name: checked). The 'Ok' and 'Cancel' buttons are at the bottom right.



Change shape of a cableway with routed cables ^{xv}

If the cableway has more than 1 segment, it is only possible to change to height/width or width alone. Pipes and Frames cannot be divided into different segments.

Until this version, you could only change shape on empty segments.

When you define a cableway type, you select its shape. The shapes are:

- Width/height
- Width
- Diameter
- Frame
- Unlimited

The screenshot shows the 'Cableway Type' configuration window. The 'Cableway type' is 'CM_PIPE1' and the 'Description' is 'Pipe 100 mm'. The 'Routing' section shows the 'Shape' set to 'Diameter' and the 'Size [mm]' set to '100,0'. The 'Normal span [m]' is 0,000, 'Normal load [kg/m]' is 999,990, 'Def. fill factor' is 1,000, and 'Def. weight factor' is 1,000. The 'Calculated area' is $\text{Pi} * (\text{diameter} / 2)^2 = 7853,982 \text{ mm}^2$.

Type ^	Description	Shape	Size [mm]	Normal span ...	Normal load [kg...	Def. fill factor	Def. weight fac...
CM_CHAIN	Chain	Width/Height	80 x 80	0,000	45,000	1,000	1,000
CM_HOLE	Open hole 1110 x 300 mm	Diameter	0	0,000	999,990	1,000	1,000
CM_JUMP	Jump (unspecified connection)	Unlimited		99,900	999,990	1,000	1,000
CM_LADDER1	Ladder 450x1 mm	Width	450	3,000	100,000	1,000	1,000
CM_LADDER2	Ladder 600x1 mm	Width	600	3,000	150,000	1,000	1,000
CM_LADDER3	Ladder 900x1 mm	Width	900	3,000	180,000	1,000	1,000
CM_PIPE1	Pipe 100 mm	Diameter	100	0,000	999,990	1,000	1,000
CM_TRANSIT1	Multi-cable transit 3 x 3 cables (50x50...	Frame	50 x 50 x 9	0,000	999,990	1,000	1,000
CM_TRANSIT2	Multi-cable transit 3 x 3 cables (75x75...	Frame	75 x 75 x 9	0,000	999,990	1,000	1,000
CM_TRAY1	Cable tray 50 x 450 mm	Width/Height	450 x 50	3,000	100,000	1,000	1,000
CM_TRAY2	Cable tray 50 x 600 mm	Width/Height	600 x 50	3,000	150,000	1,000	1,000
CM_TRAY3	Cable tray 50 x 900 mm	Width/Height	900 x 50	3,000	250,000	1,000	1,000

What if more users work on the same project

There is now a warning, if more users work on same node. ^{xvi}



MY NOTES

A large grid of small dots arranged in a regular pattern, intended for taking notes. The grid covers most of the page area below the header and above the footer.

