AUCOTEC
Create Synergy – Connect Processes

RUPLAN

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1 Installation of RUPLAN 2023 - General

Starting with version 4.82, the setup was changed to MSI. But neither the general procedure, nor the type of the installation has been changed!

More information can be found in the installation guide.

Please check also the Readme files for the particular version.

Please note:

If you have RUPALN 2023PR installed, you must uninstall this version before you can install RUPLAN 2023 on this computer. See 1.1 below

Please note:

For multi-user access, it is mandatory to have a central MAIN area (**one** lock management for all users). If this is not considered, data can be corrupted.

Please note:

If you want to transfer data from RUPLAN to EB, please read the appropriate documentation. For example you have to choose mapping files to match your projects and run the necessary checks for the projects.

Please note:

If you license RUPLAN via FlexNet, you must install the current FlexNet license server!

This new FlexNet Server also supports the older RUPLAN versions that can be licensed with FlexNet.

1.1 How to proceed with an installed RUPLAN 2023

In this case, you must uninstall RUPLAN 2023PR before you can install RUPLAN 2023 on the same computer.

You can do this as follows:

1. Use Windows Explorer and rename the installation directory of the RUPLAN 2023PR version - for example to R2023PR_rett.
2. Uninstall the version via "Add or remove programs".
3. Install RUPLAN 2023.
4. Copy all your important data from the renamed directory (e.g., R2023PR_rett) to the newly installed version.
5. Once you are sure that you have copied all the necessary data, you can delete the old directory (in the example R2023PR_rett).

2 New Features/ Add-ons

2.1 Standardization of read-only fields in masks

Reason

Bug 168438: Wrong background color in the labeling mask for online-protected texts.

Bug 242315: Editing Symbol: online protected texts are not copyable with &KENSORT

This initially affects the symbol labeling, but then also resulted in a consistent revision of the group labeling.

Analysis

- The text protection property was only observed in the TAB view of the labeling mask. In the EVU module, this feature is not active.
- In the EVU module, the texts could be changed, but the change was rejected with an error message after submitting the mask.
- In the EVU module the background color of the field was not red, but the font was oblique (Italic).
- In the labeling mask with TABs, the read-only fields were neither selectable with the cursor keys nor clickable with the mouse.

  Therefore, nothing could be marked in these fields, and nothing could be copied out.
- The read-only fields in the column area behaved differently than the read-only fields in the header because they were clickable.

  Only if the read-only fields are clickable, a text can be selected and copied.

Changes

The behavior of read-only fields in the column area of masks has been adjusted to that of the header fields:

- In an input column, all fields are "enabled", i.e., they can be selected with the cursor keys or the mouse. This allows marking and copying.
- All read-only fields in this column are highlighted in red, but with "normal" font (not italic) and it is impossible to make an entry.

Notice

This removes the reason for not using TABs in the symbol drawing in the EVU module.

2.2 Enhancement for AWT masks

As part of the revision of the behavior of read-only fields, the options for masks in AWT have also been enhanced:

2.2.1 Header rows in E& masks can now be write-protected.

For this purpose, the setting for C&_xxROF now also works for header rows in connection with A&KOPDEF. However, this can only work if each header field is assigned its own (AWT) buffer line in the E& definition, i.e., the line numbers are different.

2.2.2 A "Multicolumscrollist" should have read-only, i.e. non-selectable rowsPreliminary remarks

A "Multicolumscrollist" can also be described as a table without input columns. It is used, for example, in the EVU module when assigning conductor material; in doing so, a desired row is selected.

To prevent the selection of individual rows, you can now define them as "read-only" in the AWT:

Aktion	Ident	Text	Erläuterung
D	A&MCASPA	1	Action column is the first column
D	A&SPADEF	XX	Definitions for the first column via identifier XX
D	A&MCSMOD	S	Display as list with single select
D	C&_XXROF	POS:(142:142)	Identifier XX: ROF is at position 142

2.3 Revision of different group actions

2.3.1 Preliminary remarks

Reason

In the past, bugs have been collected and requirements have been expressed on this topic.

For example:

Bug 339537: IEC: Changes to the polygon reference of a RKZ group cause errors when symbols with and without online reference are in the polygon.

or

Requirement 167629: IEC RKZ group with symbols with object reference not solved or handled sensibly.

or

Requirement 339548: IEC: When marking a RKZ group, texts which cannot be changed should be marked.

or

Bug 338587: EVU: IEC: When moving a RKZ group, the corresponding marking on symbols disappears.

Analysis

The analysis showed that errors could occur not only in IEC projects, but also in DIN projects.

Especially when changes were made to the enclosing polygon reference and some of the symbols inside had object references.

Terms

In this description, the group frame is referred to as a polygon or polylines. The terms group, reference tag group or location group always refer to the group frame with the contained graphic.

Polygons (polylines) exist in RUPLAN both in the free graphics (there also sometimes called point clusters) and as polylines with logic.

Polylines with logic are also used in the switchboard module, among other things for the representation of cable channels. In this usage there is a property "Protection" which prevents placing symbols inside such a protected polygon (=cable channel).

Polylines with logic can be entered into the plan in different ways. For group frames, the entry as a rectangle is usually used, for reference indicator groups the one via a menu item (AWT).

The form of the entry is important for the marking and also AWTs, because it decides about the numbering of the corner points. If a rectangular polyline is entered "by hand" and one starts at the bottom right, then the second corner point is, depending on the direction, the point at the bottom left or top right. In the RUPLAN installation files, however, the corner point number 2 is defined for the texts to be entered, assuming that this is the point at the top left.

The entry of a group frame as a rectangle or via the menu for RKZ groups ensures that the corner points are numbered consecutively in the clockwise direction starting at the bottom left!

Changes

As explained in the following, the behavior when marking and deleting the polygon and when moving a corner point has been changed.

This affects all projects, not only IEC!

2.3.2 Entry Changed behavior when labeling

When displaying the labeling mask of polylines, a check is made for every existing polyline text to see whether it is protected.

IEC project:

A text at a reference symbol group may not be changed if the associated (inherited) text at the symbol within the group has a write protection because it is under online control.

If, for example, the product aspect is agreed as uniqueness, this is protected for symbols with online reference. Nevertheless, the function aspect can then be changed.

DIN project:

The same is valid in DIN projects, for example for local groups. Here, the location text cannot be changed either if it is protected as a uniqueness at a symbol.

These protected texts are now write-protected in the labeling mask.

2.3.3 Changed behavior during deletion

Changes to the polygon reference (group) are applied to the symbols contained in the polygon via internal automatics. A text protection by the online control is considered, but the change at the polygon is carried out anyway.

Especially in IEC projects the reference labels deposited at the symbol then differ from the label visible in the plan!

Change in IEC and DIN projects:

When deleting the polygon, it is checked before deletion whether symbols in the group have online reference. If yes, the polygon will not be deleted!

2.3.4 Changed behavior when moving a corner point

Previously, when a corner point was moved, not only the polygon course was deleted and re-entered, also the internal automations were triggered at all symbols in the group twice:

1. at all symbols within the old polygon the group labels were deleted.
2. at all symbols within the changed polygon the group labels were newly entered (DIN) or the reference labels were inherited (IEC).

Also, in this case this caused errors if symbols had object reference (Bug 339537)

Change in IEC and DIN projects:

1. When moving a corner point, it is checked whether symbols change their affiliation to this group, i.e. whether they are added or dropped out.
   If no symbols are found, only the polygon is changed and nothing else happens.
2. All symbols that change their membership are checked for object reference. The polygon will be changed only if the necessary text changes can be made to the symbols concerned.
   Then only these symbols are changed, all others in the group remain untouched.
3. If the top left point is moved, all texts on the polygon are moved as well. It is irrelevant if another reference point was defined in the installation file!
4. **Only in the EVU module:**

   If one of the two left corner points is moved, a placed associated text symbol will also be moved.

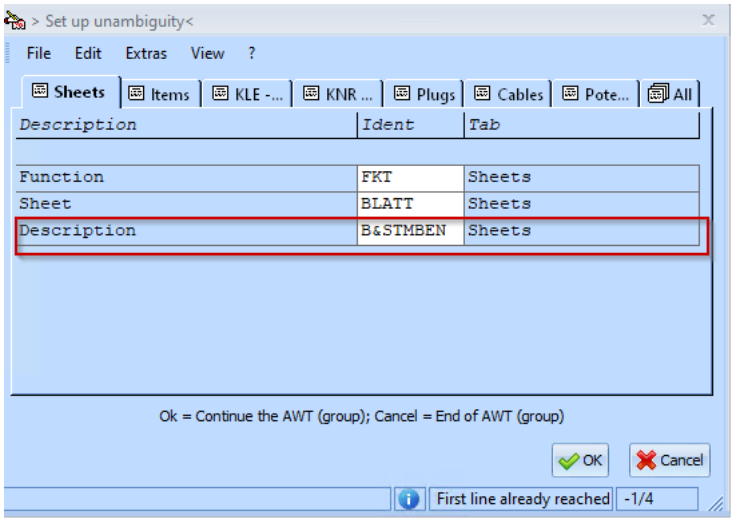
   If the upper or lower border is moved, symbols placed on the border (insertion point on the border) are also moved.

2.4 Innovations in Multipage-PDF

2.4.1 Improved input of settings

2.4.1.1 Setting the uniquenesses

In both **Options: Unamb. with nav.** and **Options: Unamb. without nav.** there is a third parameter for the settings for the sheets, the sheet name:



The other settings have not changed compared to the older versions.

Changes to these presets only take effect if the **Tree from frame texts** checkbox is selected in the general settings (see the following chapter)!

2.4.1.2 General settings

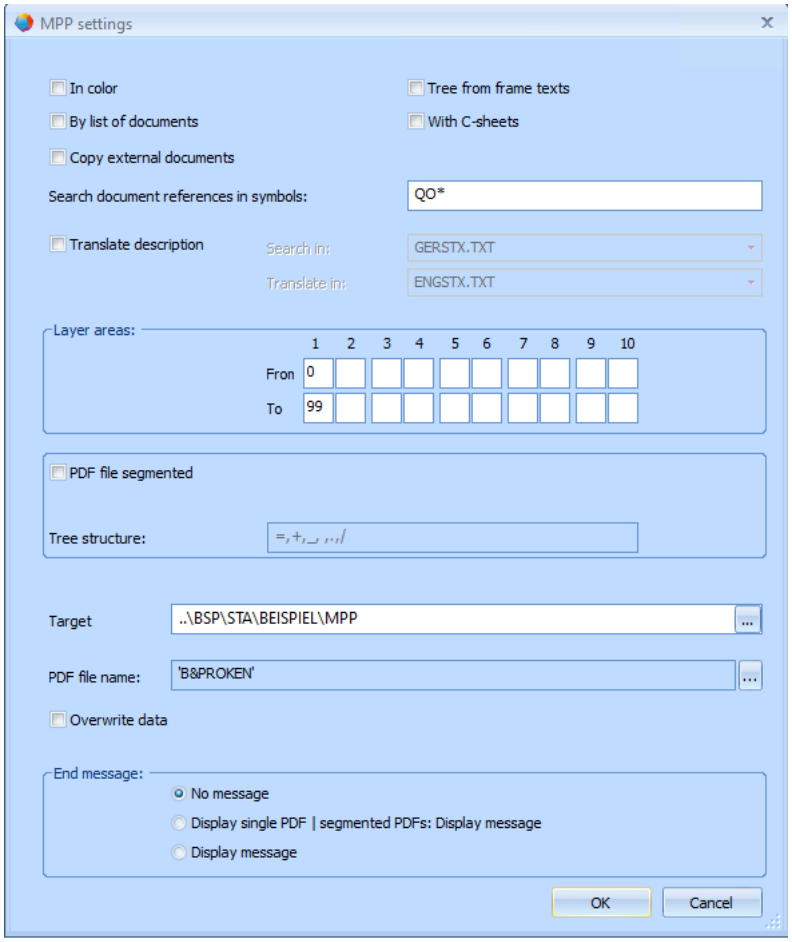
The **MPP settings** window offers - with three exceptions - the same setting options as in the previous RUPLAN versions, but in a modified and more convenient arrangement.

The three differences in content to the previous setting options are the following points:

1. New is the input option for the **target** of the PDF file(s).
2. Also new is the input option **PDF file name**: With this function the name of the result file can be configured flexibly and individually, incl. inclusion of the date as part of the name; the previous setting option "PDFs with date" thus becomes superfluous and is no longer applicable.

   This fundamental and significant innovation is described in detail in the chapter New: Configure output file names..
3. **PDFs present** is replaced by **Overwrite data**. The new performance works similar to the old one and is described below.

The **MPP settings** mask is called up via the **Output** menu: **Export MultiPage PDF**, **Options: General**:



2.4.1.2.1 Description of the settings

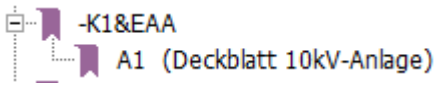
In color

☐ The plans are output in black and white.

☑ The plans are output with the colors in the RUPLAN graphic.

Tree from frame text

☐ The tree sheets in the PDF file is built up in 2 steps: RUPLAN function and name of the sheet in the counting part. The address name is given in brackets as additional information:

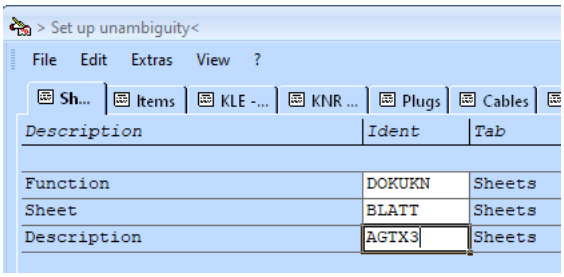


☑ The values for the uniquenesses for sheets for the structure of the tree and the supplementary information in brackets are used.

If you have not changed anything here, you will get the same result in the PDF as if you had deactivated the switch.

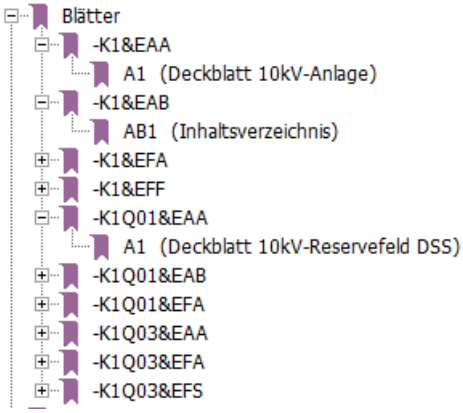
If you have entered values that differ from the default, this will affect the sheet tree. Example:

Different settings of uniqueness for sheets:

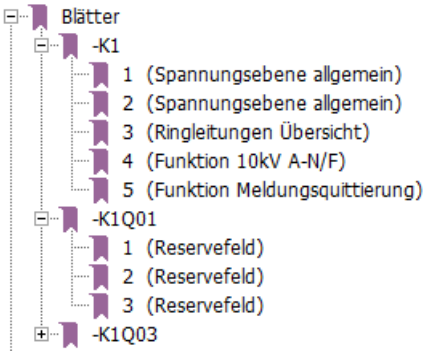


Result:

Tree from frame text= ☐
Funktion / ZTEIL (Sheet naming)



Tree from frame text = ☑
DOKUKN / BLATT (AGTX3)



By list of documents

☐ The plans are output in the order in which they are listed in the address display.

☑ The plans are issued in the order corresponding to the plan list of documents.

With C-sheets

Only relevant in the EVU module. Will no longer be selectable in the standard in RUPLAN 2024.

Copy external documents

For MPP files without navigation this switch has no effect.

☐ The external files referenced in the RUPLAN plans are not copied.

The external files are entered in the PDF and in the navigation area with a link to their original location.

☑ The **ExDFiles** directory is created in parallel with the PDF file. All external files referenced in the RUPLAN plans are copied to this directory.

Search document references in symbols

Here you define in which symbols Office links are searched for. It is possible to restrict the search to certain symbol names; the default is the restriction to Office symbols QO*. Links to external documents are only searched in symbols that match this restriction.

If you are not sure which symbols in your plans carry an Office link, enter the wildcard * in this field.

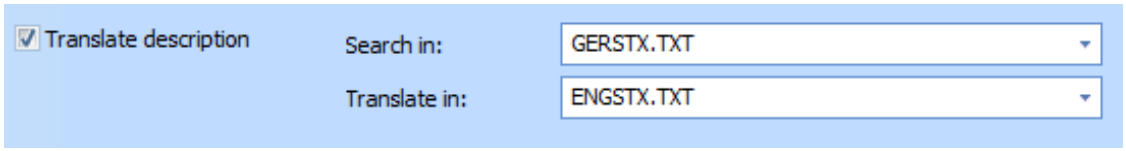
Translate description

This setting is only relevant if you work with standard text files.

Since no standard text abbreviations can be used in the naming of plans, you can use this switch to have the names translated for the PDF output.

☐ The description of the plans are transferred to the PDF without any changes.

☑ The description of the plans are translated with the help of the selected standard text files:



The selection fields for the standard text files are normally grayed out and are only activated when **Translate description** is checked.

Layer areas

Up to 10 layer areas can be specified for PDF output.

Preset is layer area 1 for all layers (0-99), i.e. all graphical elements in the plans are output.

PDF file segmented

☐ All marked plans are output to a PDF file. This file is named according to the name configuration from the settings.

☑ The selected plans are divided according to the specifications in the **Tree structure** field (see below) and stored in separate files.

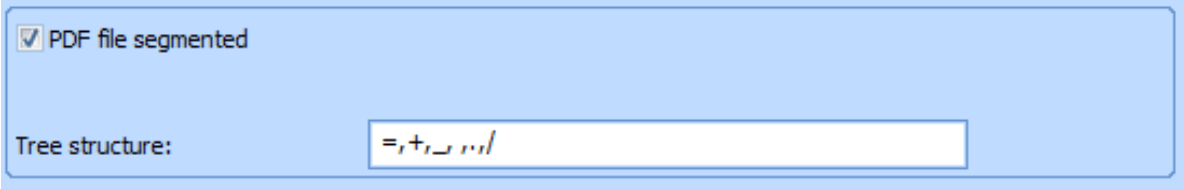
The name configuration under **PDF file name** is irrelevant in this case and will be grayed out.

Tree structure

If **PDF file segmented** is checked, the output data will be split.

In **Tree structure** you define which characters in the RUPLAN functions are used for this split.

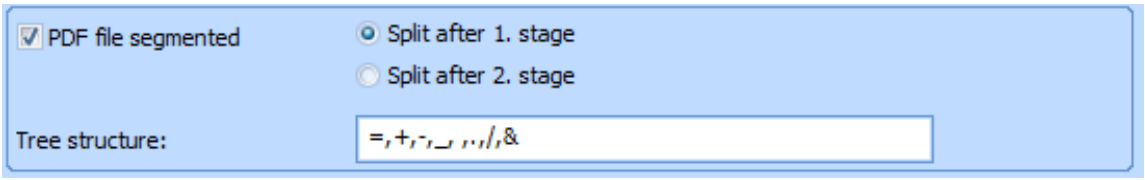
Input for DIN projects:



The division of the files is done according to the setting for the structuring of the fields, i.e. according to '=' or according to '+'. Examples:

Project DIN 40719 structure '='	Project KKS structure '+'
MPP Name =E01.pdf =E02.pdf	MPP Name +B1GKH10.pdf +B1GKH20.pdf +B1GKH30.pdf

Input for IEC projects:



The splitting of the files is done according to the setting on which level of the function structure the splitting should be done.

Project IEC 81346

Split after 1. Stufe	Split after 2. Stufe
MPP Name -K1.pdf -K2.pdf	MPP Name -K1.pdf -K1.Q03.pdf -K1.Q05.pdf -K2.pdf -K2.Q03.pdf

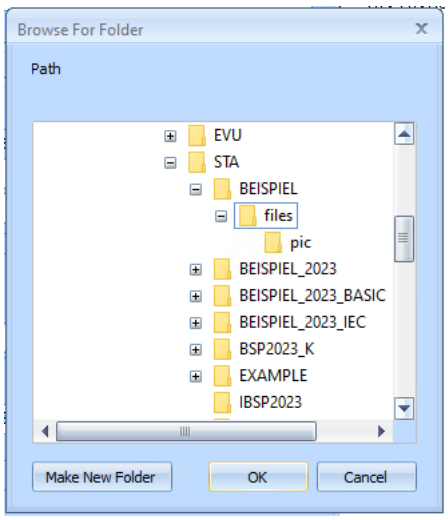
The division by stages only works if each stage in the RUPLAN function is set off from the previous stage by one of the defined tree structure characters or by the aspect sign.

Attention: <blanc> does not work in this context

Target

If no specifications have been made yet, the **MPP** folder is offered below the project directory.

Press ... to open a folder selection; if the desired target directory does not yet exist, it can be created in this dialog:



It is also possible to select a destination path that is not in the project directory, e.g. if the PDF outputs from different projects are to be collected in a central directory.

If the project name is part of the path, then in the it is saved in the form of a text automatic. This ensures that even after copying or renaming a project, the newly created MPP files are saved in a path with the current project name.

This also applies if the target path is not in the RUPLAN directory..

PDF file name

Press … to open a window for configuring the name of the result file. This window is described in detail in chapter Configuration of the output file name.

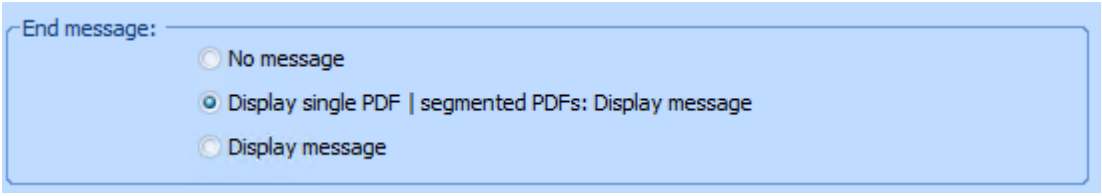
Overwrite data

☐ If the file to be created already exists, then a corresponding message appears with the option to select overwriting of the file.

☑ If the file to be created already exists, it will be overwritten without further query.

If **PDF file segmented** is checked, then this message will pop up when PDF files with any name are found in the destination path. If it is unchecked, then a file with the set name will be searched explicitly.

End message



- **No message**
  After the completion of the PDF file(s), the MPP output is terminated without any feedback to the user.
- **Display single PDF | segmented PDFs: Display message**
  - If **PDF file segmented** is not enabled, the finished PDF file will be opened.
  - If **PDF file segmented** is enabled, multiple PDF files will be created. After their completion, the message "Creation of PDFs finished" will pop up
- **Display message**
  After the PDF file(s) are finished, the message "PDF creation finished" will pop up.

The message window is often pushed into the background by other windows. However, if you look at the taskbar, you can quickly see whether the message has been sent; it is entered in the taskbar with the following icon:

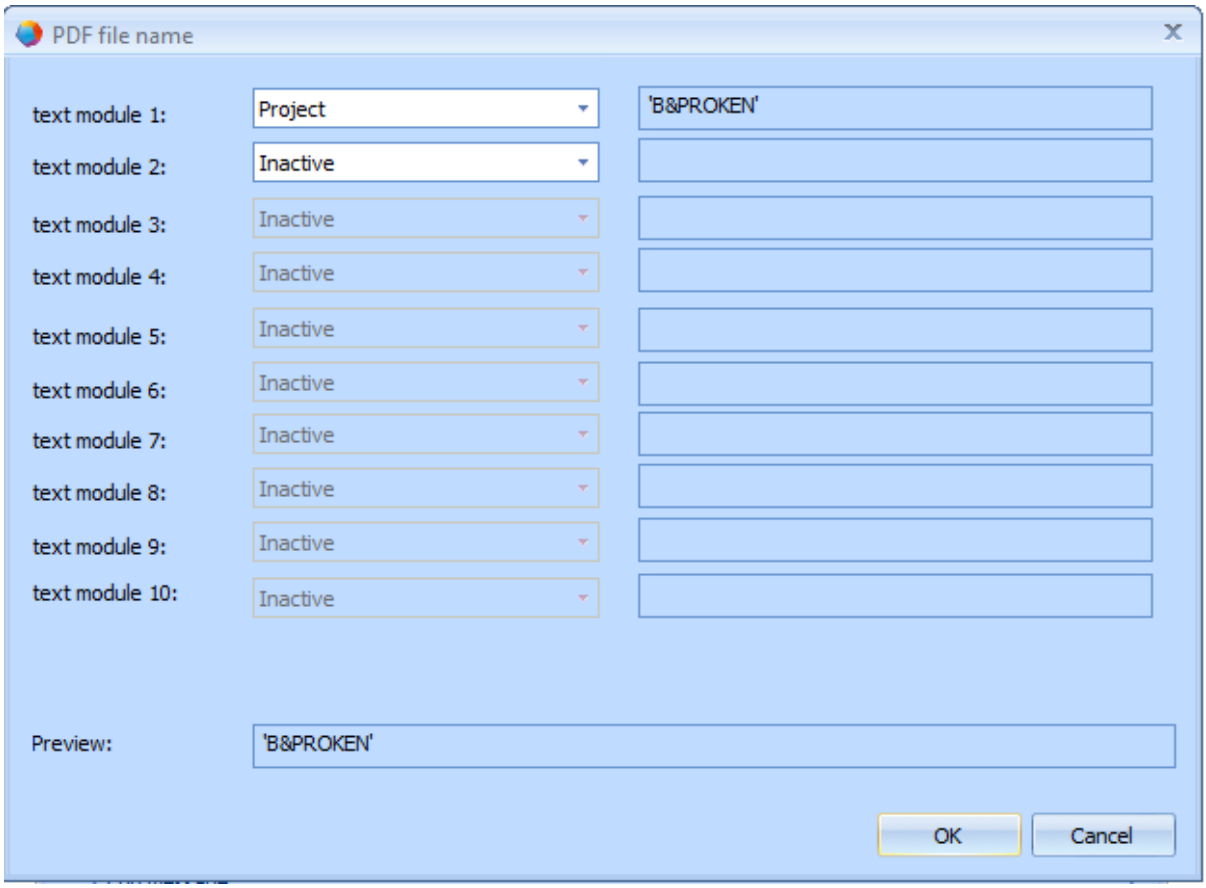
2.4.2 New: Configuration of the output file name

The following explanations apply in the event that all plans are written to one output file. If the PDF file is segmented, this configuration has no effect.

Up to now the name of the result file was fixed to the project name, which could be supplemented by the date by a switch in the settings.

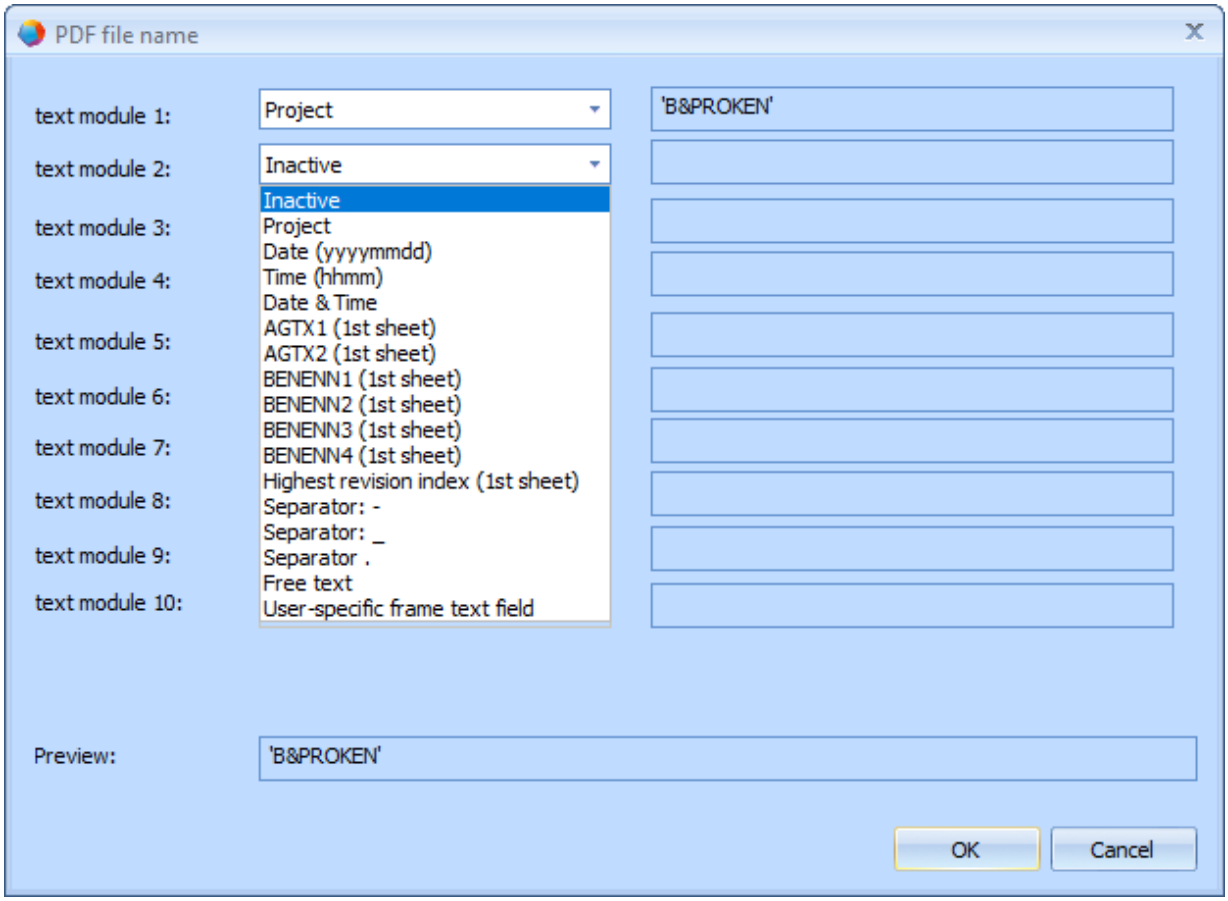
With RUPLAN 2023, the name of the results file can be composed of up to 10 text modules. The current configuration is displayed in the **MPP settings** window in the Name PDF file field.

Via ... the user reaches the dialog for revising the name configuration:



If the user has not yet made any specifications, only the first text module is preassigned with the project name.

Each of the 10 text modules can be assigned by the user. The following terms are available for selection:



Inactive	No contribution to the file name This text module and all those below it do not contribute to the file name.
Project	Name of the project
Date (yyyymmdd)	Date in the format YearMonthDay Example: 20230124 (i.e. 24 January 2023)
Time (hhmm)	Time in the format hoursminutes Example: 1033 (i.e. 10:33)
Date & Time	Format: YearMonthDayHoursMinutes Example: 20230124-1033 (i.e. 24 January 2023 at 10:33)
AGTX1 (1st sheet)	Content of the frame text field 'AGTX1' of the first marked sheet
AGTX2 (1st sheet)	Content of the frame text field 'AGTX2' of the first marked sheet
BENENN1 (1st sheet)	Content of the frame text field 'BENENN1' of the first marked sheet
BENENN2 (1st sheet)	Content of the frame text field 'BENENN2' of the first marked sheet
BENENN3 (1st sheet)	Content of the frame text field 'BENENN3' of the first marked sheet

BENENN4 (1st sheet)	Content of the frame text field 'BENENN4' of the first marked sheet
Highest revision index (1st sheet)	Content of the frame text field 'AEZUn' of the first selected sheet. The text field 'AEZUn' with the highest "n" is read. Only text fields with content are considered. For a drawing frame, the text field with the highest "n" can be at most 'AEZU3', for a cover sheet frame 'AEZU40'.
Separator -	-
Separator _	_
Separator.	.
Free text	Plain text, entered by the user Example: in advance
User-specific frame text field	Frame text field, entered by the user Example 1: UNR Example 2: OWN01 The content of this text field is also read from the first selected sheet.

The name of the file must not be longer than 60 characters in total!

At the start of the MPP output the file name is determined and the length is checked. If the length is > 60 characters, a corresponding message is displayed, then the output is terminated.

2.5 Improvements in the distributed .rclx files

- RUP$CONF is now also found under RUP_DISK (SysEnv.rclx)
- RUP$PROC is now also found under RUP_DISK (SysEnv.rclx)
- KBM (user menu before catalog) also (Ruplan.rclx)
- In error messages with "... does not exist" a correct path is output now.

2.6 167396: In the project configuration take over the filter content at TAB change

Up to now, the filter settings for the individual databases were independent of each other. Now, when changing the tab, filter settings that have been made once are taken over.

2.7 341778: Library composition should be automatically adjusted by the system according to the norm switch

This affects the preset databases in the installation file. Up to now, for projects with reference designation ("IEC projects"), especially in the EVU module, the X00 banks with the addition _IEC had to be appended in the project in each case. Especially when changing the RUPLAN version, one could not rely on the automatic of the installation file, but had to adapt this for the project in each case.
Now the syntax for the preset databases in RUINST (VDB&) has been extended:

- The name of the database can contain a string of the form [...IEC...].
- At the project start, when the preset databases are added to the database compilation, a name with such a part is handled depending on P&RKZ:
    - If P&RKZ= 1 or 2 or 3, then RUPLAN treats this project as an "IEC" project. Then the database name is obtained by omitting the two square brackets.

      Example: X002023[_IEC] => X002023_IEC
    - If P&RKZ=0 or undefined, the complete content including the enclosing brackets is omitted.

      Example: X002023[_IEC] => X002023
- The EVU installation files have been adapted accordingly.
- The project file of the EVU example project for IEC has also been adapted.
- "341784: EVU: Symbols: Transfer graphic symbols for function block diagrams FJ5* to IEC symbol databases".was realized in this context.

3 Fixed (and not fixed) errors

3.1 336905: RUPLAN 2022 QA Tools. Print file is empty although errors are present.

The AWTs have been changed and now give the file name to be printed with suffixes. The name then passed by the print procedure "DruAWT.cmd" (for example: D:\Ruplan\2021\TempAWT\"FehlDat.txt") is not processed correctly by the print program (RupPri).

The procedure has been modified and tested for RUPLAN 2023 so that now not only this will work, also printers like "Microsoft Print to PDF" can be predefined.

Possible values for the printer:

- DEFAULT (Default printer)

- DIALOG (Printer selection)

- Printer name or share name (also "Microsoft Print to PDF" possible)

3.2 338009: IEC: In EVU project problems with truncation of prefix at B&RKZ=3

If the reference identifier started with a number, the following sign was not omitted when converting to the short form.

Example: -08-CF returned -08-CF instead of -08CF.

This resulted in the generation of an incorrect resource identifier that did not match the others.

Fixed.

3.3 338009: Drag from Item diagram: Irritating second prohibition sign flashes up

When dragging from the item diagram, another red prohibition sign flashes to the lower right of the black prohibition line cursor.

Fixed.

3.4 338009: Drag from Item diagram: Inaccurate tooltip text

When dragging from the item diagram, a warning appears if a drop cannot occur. This was often

"Symbol is not a part function of the item".

and not the real reason (wrong uniqueness).

Fixed.

3.5 338009: Drag from Item diagram: Did not work in IEC!

A drag from the item diagram did not work in IEC projects!

1. identify a symbol with object reference
2. display in the item diagram
3. release symbol (partial function becomes free in the item diagram)
4. drag partial function (or also operating device) to the solved symbol
5. the action is not allowed

Fixed.

3.6 338009: Drag from Item diagram: Ignores the setting for display in IEC.

If a drag from the item diagram was successful, an entry is made at the symbol, which complements itself with the entry at encircling groups to the reference identifier.

This (automatic) entry should respect the project setting for display.

Fixed.

3.7 338009: Drag from Item diagram: Difficult association of partial functions with line symbols

When dragging partial functions, both a symbol fix and an associate are possible.

During symbol entry, the enclosing rectangle is checked for overlaps using the gridded crosshair coordinates; these gridded coordinates were also used for the association check. This made it easy to erase a wrong line symbol.

Now the non-gridded mouse coordinates are used for the association check.

Fixed.

3.8 338239: IEC: Project setting for aspect selection does not work for RKZ icons.

In IEC projects there are icons for entering and changing RKNZ groups.

For these icons the project setting "Skip aspect selection at AWT start" is not considered.

Fixed.

3.9 339077: When working in clipping, messages about raster graphics are irritating.

The message

"RTRGVW 590-I-001 Rastergrafik liegt außerhalb des Arbeitsbereichs".

is now suppressed in the section because, for example, the logo is rarely found in the section and the message - even as *only* information - is irritating.

Fixed.

3.10 341286: MPP CZE: Czech characters are wrong in the outline area (tree) of a multipage PDF

Background information (from https://www.ibm.com/docs/en/cognos-analytics/11.1.0?topic=performance-pdf-file-settings)

> PDF character encoding determines the character set that is used to create PDF files. You can choose to use Windows1252 encoding, the standard Microsoft Windows operating system single-byte encoding for Latin text in Western writing systems, or unicode (UTF-16) encoding. By default, PDF character encoding is determined automatically, based on the characters found in the file.

In other words, Windows 1250 - as set for Czech (Central European) - is not supported in PDF. The means of choice is therefore UTF-16.

Therefore, RUPMPP, the program that assembles the individual PDFs and provides them with the tree, and the controlling VBScript that converts the tree file were converted

Fixed.

3.11 335373: Crash of RUPLAN in project view (Tree)

Opening a project in the tree view caused RUPLAN 2022 to crash.

Fixed.

3.12 167570: When moving the labeling mask in the AWT bank, the new position is not saved

Fixed.

3.13 Bug 336353: Adjust paths in project configuration no longer always works in RUPLAN 2022

Fixed.

3.14 Bug 343655: STD: Recycle bin cannot be deleted for a project with 17,000 sheets

Fixed.

3.15 Bug 343950: Hybrid graphic is not placed in the grid

If you place the symbol QR001 manually, it will be fixed on the next grid point.

However, if you work with the toolbar and select Enter hybrid, the symbol is placed where the cursor is, the grid is not taken into account. If you select the symbols for the Inner or Outer Blanking Area in the toolbar, the symbol will be placed in the grid.

Fixed.

3.16 337084: RCL editor: RUP$DRU and RUP$ADRU cannot be set in a reasonable way

In the RCL editor, RUP$DRU and RUP$ADRU are now also customizable as defined in 3.1.

4 Unsorted hints

1. the "UserConfig Id" in the rclx files is always numeric!
   Letters are not allowed (also no hexadecimal numbers or similar).
2. the selection "Export VNS" in the menu always outputs level 1!
   To output VNS level 2, the project must be selected with user menu. Only then the old masks with the selection of the VNS version come.
3. RUPLAN version numbers can be found
   a. In the title line (example: "RUPLAN 2023PR" or "RUPLAN 2023")
   b. In the info about dialog in RUPLAN (example: "Version 6.30PR")
   c. In the file dialog of RUPLAN2023.EXE in Details (example: "File version = 6.3.0.71")
   d. In the Windows dialog "Apps and Features" (example: "6.30.71.0706")