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10.2 - Release notes

Date: 12.02.2026

Summary

Important changes

acron 10.2 introduces some important changes. These are described in detail below.

REST API now mandatory

With acron 10.2, the REST API will become an important part of the reporting system. In the course of this, the entire report output was modernized to ensure the future viability and expandability of report generation in acron. The reports are now made available to the acron modules, such as Report and Graph, via the REST API. It is therefore essential that the REST API is running and accessible if reports are to be output. The acron Designer now also checks the availability of the REST API at login. For new plants or existing plants that have not yet configured the REST API, a standard configuration valid on the host computer is automatically created. When updating the plant to version 10.2, the configuration will only be populated with default values if the REST API was inactive prior to the update.

Formula syntax adapted

All formulas now follow the Microsoft Excel syntax and will begin with an equals sign (=). Text used in formulas must be placed in quotation marks ("").

All previous formulas will be adapted to the new syntax as part of the plant update.

Conversion of the previous text box into the new WYSIWYG text box

The previous text box has been replaced by a new WYSIWYG (What You See Is What You Get) text box. All existing text boxes are automatically converted when the plant is updated.

Update Forms - Warning for font change

- CI: NG-11303
- After a plant update, the system now checks whether forms contain unsupported fonts (especially TTFs). If fonts are missing, a message is displayed and the system automatically switches to a standard font such as "Arial 12". Details of missing fonts are written to the log and a comparison is made between client and server fonts.

Unique form and report designations

With 10.2, a validation was introduced that ensures that the names for report folders and form pages within the same path are unique (analogous to the existing identification of process variables).

Automatic adjustment of existing data

- As part of the plant update, all existing ambiguous report folders and form pages will be automatically renamed to be unique.
- If the names are the same, they are numbered consecutively at the end (similar to the copy & paste behavior for process variables).

Documentation of name changes

- All changes are documented in a separate text file:
 - **File name:** [acron Plant name]_unique-report-names
 - **Storage location:** Backup path of the plant

If the backup path of the plant is not available at the time of the plant update, the text file will be saved on the desktop.

Table width

Unlike the previous report edition, the new report edition via REST API strictly adheres to the set table widths. This can now result in table columns that are slightly wider than the set size of the table being output on a subsequent page with 10.2. The previous report output ignored this and drew the table across the specified width. Relevant reports can be customized using the report designer.

Discontinuations

- The following provider drivers will be removed with acron 10.3:
 - Simulation of online values (SIMULATE.DRV; 32-bit)
 - OPC Unified Architecture Client (OPCClientUA.DRV; 32-bit)
 - OPC Unified Architecture Client with timestamp (OPCClientUA_TS.DRV; 32-bit)

It is recommended to switch to the respective 64-bit equivalents of the above providers.

- The following OPC UA security policies contain critical security vulnerabilities and will be removed in acron 10.3:
 - Basic128RSA15
 - Basic256

It is recommended to use at least Basic256SHA256 or higher.

New functions

Admin

- Restore REST API default configuration
 - CI: NG-11987
 - In acron Admin, the default settings of the REST API can be restored at the touch of a button.
- REST API connection status
 - CI: NG-11987
 - The connection status of the REST API can be checked at any time in acron Admin. This overview makes it much easier to identify the causes of any connection problems.

Basis

- **Show future values**
 - CI: NG-11245
 - Future values can now also be processed and displayed in acron, e.g. from production planning and imported via a CSV provider. This data is available in reports, in the Reporter, Graph, OPC-Server, REST API, etc. The compression of future values can be activated for each process variable (VG) and managed centrally for each plant.

Report Designer

- **Placeholders in reports**
 - CI: NG-9002
 - If a report is required multiple times for different structures, areas, etc., it previously had to be created once for each intended use. This was particularly time-consuming for reports that were identical for dozens of objects but differed in the parameters (e.g., AKZ, prefixes, suffixes, IDs, etc.) of the process variables used. With acron 10.2, placeholders (e.g., @Placeholder1@) are introduced for reports. These are used in the report at the points where they are to be replaced by a specific key later during report output. The placeholders and their replacements are maintained in a separate table in the Designer.
- **WYSIWYG-Textbox**
 - CI: NG-11434
 - The previous text box has been replaced by a new WYSIWYG text box. Text boxes in reports are automatically converted during asset updates. The new WYSIWYG text box makes editing text content much easier and faster.

- **Improve operation**
 - CI: NG-11060
 - The user interface of the report designer has been redesigned to significantly improve the user experience. New users in particular should find their way around more quickly, as the operating logic is now more intuitive and consistent. The changes are based on concrete feedback from the field and include, among other things, simplified navigation and clearer visual cues. The aim is to lower the barrier to entry and increase productivity when working with the editor.
- **Horizontal/vertical alignment of elements**
 - CI: NG-11140
 - New functions for horizontal and vertical alignment of elements have been introduced, which are based on the behavior of PowerPoint. Users can now align individual or multiple elements to each other or to the side. This function improves precision and efficiency when creating complex report forms.
- **Level shift of an element to "bottom" or "top"**
 - CI: NG-11142
 - The context menu area for layers has been extended so that elements can now be moved directly to the foreground or background. The new menu structure offers five clearly defined options for level control. This makes editing superimposed objects much faster and more convenient.
- **Undo/Undo of several elements inserted together**
 - CI: NG-11143
 - When inserting multiple elements, the process is now treated as a single undo step. This improves usability for extensive copy-paste actions. Users no longer have to undo each insertion process individually, which saves time and avoids errors.
- **Open reports with Enter key**
 - CI: NG-11237
 - Reports in the object tree of the Designer can now be opened directly by pressing the Enter key. This speeds up navigation and reduces click paths.
- **Width of columns within "fixed columns" customizable**
 - CI: NG-11396
 - The column width in areas with a fixed number of columns can now also be adjusted using drag & drop.
- **Line spacing in table increased**
 - CI: NG-11483
 - The standard line spacing in tables has been slightly increased to improve the readability of the data.
- **Recovery option for unsaved report changes**
 - CI: NG-10957
 - A recovery option has been introduced in the report designer that automatically creates backups of forms every minute. In the event of an unexpected crash, users can decide whether they want to restore the backup the next time they open the report. This protects against data loss and increases security when working with extensive reports.

- **Formula search in the report designer**
 - CI: NG-10983
 - A new search function for formulas has been integrated into the report designer, which can be activated directly from the formula ribbon. Users can search for specific formulas and receive direct syntax help, similar to Excel.
- **Move objects faster with Shift + arrow keys**
 - CI: NG-11619
 - In the report designer, objects can now be moved more quickly by holding down the Shift key and using the arrow keys. The object travels ten times the distance of normal movement, which significantly speeds up positioning.
- **Shortcuts for "next"/"previous" object**
 - CI: NG-11620
 - Navigation between child elements in the report designer is now also possible using keyboard shortcuts. Ctrl+Shift+  or Ctrl+Shift+  can be used to switch to the next or previous element without the object tree having to be in focus. This speeds up work with extensive form structures and reduces unnecessary mouse clicks. The function increases productivity and provides a better overview.
- **Configurable clickable background for advanced TextBox**
 - CI: NG-12000
 - It is now configurable whether the background of a text box is "click-through" or whether the box is selected on click.

Designer

- **Schedule recalculation**
 - CI: NG-9823
 - The recalculation of the database can now be scheduled - e.g. at night or at other defined times. The setting is made via the Plant management and allows daily or weekly intervals. This enables better utilization of resources and reduces the load during productive operating times. In addition, the recalculation can also be triggered manually, including display of the next scheduled time.
- **Additional information in the amendment report**
 - CI: NG-11337 #6100
 - The change report has been extended to include information about data exports - such as printing reports, PDF creation or configuration backups. This addition increases the transparency of system activities and helps with the tracking of data movements. The function is particularly important for audits and internal control processes.
- **Export/import reports**
 - CI: NG-11622
 - A new function allows the export and import of complete report folders between plants. Individual form pages within report folders cannot be exported/imported. However, several reports can be transmitted at the same time. The report import offers options for overwriting or inserting as new

objects and takes existing group structures into account. This facilitates the reuse of reports and saves considerable time during migration.

Help

- **Alarm for missing measured values**
 - CI: NG-11100
 - The help documentation has been expanded to explain the alarm function in the event of missing measured values. Users can now configure how long no measured values may be present before an alarm is triggered.
- **Create best practice for converting old report forms**
 - CI: NG-11226
 - New instructions describe the recommended procedure for converting old layout formats to the new system. It explains that old forms must be copied to the attachment path before the update so that they are transferred correctly.
 - This best practice prevents data loss and ensures that existing reports remain available and functional even after a system update. It is aimed in particular at customers who manage layout files manually.
- **Expand manual to include the chapter "Virtualization"**
 - CI: NG-11554 #4711
 - A comprehensive chapter on virtualization has been added to the manual. It contains recommendations for configuring acron in virtual machines (VMs), including CPU allocation, RAM, disk structure and VMware-specific settings such as shares and reservations. The aim is to improve the performance of acron in virtualized environments and to avoid typical sources of error. The information is particularly relevant for IT administrators who operate acron in complex infrastructure setups.
- **Customization WinCC TLG Provider / Data types / Documentation**
 - CI: NG-11810 #9252
 - The help has been updated to clarify which data types are supported by the WinCC TLG Provider. In particular, it is now explicitly pointed out that only numerical values can be processed.
 - This addition prevents misunderstandings during configuration and facilitates troubleshooting during data transmission. It was implemented on the basis of customer feedback from the field.

Provider

- **Modbus/TCP Provider**
 - CI: NG-11026
 - A new Modbus provider has been developed to enable the connection of energy meters and other devices via the Modbus protocol. The driver for Modbus/TCP cyclically retrieves process data from one or more Modbus/TCP slaves.

- **Reconnection after data failure**
 - CI: NG-11599
 - A new provider option (Reconnect after data loss) has been implemented, which can be configured separately for each driver (time interval for reconnection).
The provider checks how long it has been since data could last be read by the driver and cancels its registration as an active provider with the database server. Another provider can then take over, or - if no other provider is available - the original provider can resume service.
- **Browsing OPC UA servers revised**
 - CI: NG-10835 #3701
 - For OPC UA , OPC UA TS and OPC UA HA Provider, a new interactive filter dialog can be found in the Designer under "Import" → "Search control system" with which individual nodes can be imported from the OPC UA address space. To improve performance, folder contents are only reloaded when they are opened. Existing folders are merged, existing tags are ignored.
- **Status query Universal value import from text files**
 - CI: NG-11468 #6577
 - The universal value import from text files has been extended so that characters (e.g. letters) can now also be processed as status information. Previously, the function was limited to numerical values, which led to problems with certain customer configurations.
 - The help has been adapted accordingly to clearly document the new options and avoid misunderstandings during configuration.
- **System Information 64-bit drivers expand**
 - CI: NG-11680 #8037
 - The System Information Provider driver has been extended to include the compression status of the database engine and the current calculation status in days from today's date.
- **WinCC Unified Provider 64Bit / Import from control system**
 - CI: NG-11931
 - The import of measurement data from WinCC Unified control systems has been optimized for 32-bit and 64-bit drivers. The driver now ignores different runtime names during import.

Reporter

- **Performance improvements for reports on large plants**
 - CI: NG-12350
 - Report output has been optimized to increase speed, especially for reports on large plants.

REST API

- **Data queries using process variable identification**
 - CI: NG-11217

- For data queries via REST API, the process variable identifications can now be used directly in addition to the internal ID of the process variables. This greatly simplifies the use of the REST API.
 - **REST API feedback improved**
 - CI: NG-11928
 - When querying certain process variables, the response from the REST API could be misleading, e.g., if the queried process variable did not exist or referred to an external process variable. This has been improved accordingly and expanded to include clear error messages.
 - **Update external plant – connection with REST API after update to server**
 - CI: NG-11770
 - After a server update, the connection to external plants via the REST API was optimized. Communication now remains stable and reliable, even after system updates.
 - **Plant search fails due to missing REST API config file**
 - CI: NG-11780
 - The plant search has been made more robust: it no longer fails if the REST API configuration file is missing. This increases the fault tolerance for older plant configurations.
 - **Formatted time process variables from January 12, 1970**
 - CI: NG-11093
 - The formatted value of process variables with output format time now takes into account the minimum permitted time value (12.01.1970). A symbolic value is issued for times before this.
 - **ProcessVariables/GetId only works with access privileges**
 - CI: NG-11324
 - The REST API now returns an error if a user without Designer access privileges calls the ProcessVariables/GetId function. This increases security and prevents unauthorized data access.
 - **Reports as a file**
 - CI: NG-11518
 - Reports can now be generated and retrieved directly as a file (e.g. PDF) via the REST API. This facilitates integration into external systems.
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Improvements on existing functions

Admin

- **Improved status display for providers**
 - CI: NG-11262
 - The provider status display in acron Admin now clearly distinguishes between the statuses of locally and remotely started providers for redundant providers and adjusts the available buttons accordingly.

- **Language change in the view menu**
 - CI: NG-10788
 - The language switch was previously difficult to find. It has now been moved to the view menu to improve user guidance.
- **Optimization of the licensing logic**
 - CI: NG-10801
 - The error messages for license installations on non-matching systems have been revised.
- **Context menu "Uninstall" clarified**
 - CI: NG-11012
 - The name of the "Uninstall" function was ambiguous, so it was renamed "Uninstall services" for greater clarity.
- **Help text on compression levels for mirror plants added**
 - CI: NG-11021
 - The help now points out that compaction levels must be added manually for mirror plants.
- **Visual harmonization of the "Restore plant" dialog**
 - CI: NG-11251
 - The window elements were visually unified for a more consistent appearance.
- **Stopping and uninstalling services from older versions**
 - CI: NG-11260
 - Actions such as terminating services are now also possible for plants that do not correspond to the current version.
- **Fixed an error when deleting user-specific plant data**
 - CI: NG-11308
 - Problems with deleting attachment folders when OneDrive synchronization is active have been fixed.
- **Improved UI behavior when starting/stopping the REST API**
 - CI: NG-11795
 - The user interface now responds more smoothly when starting and stopping the REST API.
- **REST API configuration checked during plant update**
 - CI: NG-11804
 - For plants with an existing REST API configuration, the system now checks whether DNS/FQDN can be resolved correctly.
- **Progress indicator improved when generating report preview images**
 - CI: NG-11840
 - The progress display when creating preview images has been made more detailed.
- **Update dialog improved**
 - CI: NG-11986
 - The update dialog for attachments has been improved in terms of its appearance. It now also points out the most important changes directly. A separate plant update is also recommended.

- **REST API configuration page**
 - CI: NG-12054
 - The configuration page of a remote REST API has been expanded to include information about the certificate status.
- **Redundancy note on mirror configuration page**
 - CI: NG-12099
 - In addition to taking the REST API into account in the event of redundancy, a clear warning has been added to the mirror configuration page advising against working on the plant configuration on both servers at the same time.

Designer

- **Improved performance when logging out of plants**
 - CI: NG-9317
 - Logging out of a plant and exiting acron Designer has been significantly accelerated.

Core

- **REST API access for admin group**
 - CI: NG-11132
 - For newly created demo standard plants, the administrator user group now has access to the REST API by default.
- **Recognition of Windows on ARM**
 - CI: NG-11422
 - A system check has been added that issues a warning during setup and validation if Windows on ARM is detected.
- **Improved calculation for monthly manual labor recording**
 - CI: NG-11440
 - The calculation of monthly and annual values for monthly recording has been corrected to ensure correct aggregation.

Report Designer

- **Improve "Target" in the editor**
 - CI: NG-11086
 - The formula field in the report designer has been revised to make it easier to use. The "Target" dropdown is omitted; instead, the display condition is added as a tab below the input field. The editor name now contains the name of the selected object and formulas always start with "=", as in Excel.
- **Improved visibility of error messages**
 - CI: NG-10495
 - Error messages in the Designer, Report Designer and Admin have been visually revised to communicate their meaning more clearly.

- **Scale creation: Actual value is correctly adopted by the editor**
 - CI: NG-10914
 - When creating a scale, the actual value is now correctly adopted as the target value in the editor.
- **Insert new groups at the top of the object tree**
 - CI: NG-10923
 - New groups are now consistently inserted at the top of the object tree and automatically scrolled into the visible area.
- **Tab for modules added to the report designer**
 - CI: NG-10926
 - A new tab for modules has been added to allow access to acron modules directly from the report designer.
- **Inserting columns via column header enabled**
 - CI: NG-10930
 - Columns can now be inserted directly via the column header, which makes operation more consistent.
- **Readability of the info text for the table page improved**
 - CI: NG-10937
 - The information text on the table page has been visually optimized to make orientation easier.
- **Drag & drop of column variables between columns**
 - CI: NG-10938
 - Column variables can now be inserted between two columns or as the first column.
- **Standard display of objects with identification and designation**
 - CI: NG-10939
 - Objects are now displayed with their identification and description by default; explanations appear as tooltips.
- **Layout options moved to their own menu**
 - CI: NG-10946
 - Layout settings, such as orientation and paper size, have been moved from the file menu to a new layout menu.
- **Improved logging function in the report designer**
 - CI: NG-10968
 - The start and end of the report designer are now clearly documented in the log.
- **Hierarchical display of table columns in the object tree**
 - CI: NG-10973
 - Columns of a table are now displayed hierarchically in the object tree in the same way as text box items.
- **Snapping to grid and auxiliary lines revised**
 - CI: NG-11002
 - The alignment of elements has been improved so that snapping to corners from grid lines and guides now works correctly.

- **Selectability of visible content**
 - CI: NG-11035
 - Elements in the background no longer block the selection of other objects. Only visible content can be selected.
- **Ribbon menu remains active when selecting again**
 - CI: NG-11065
 - The specific ribbon menu remains active when an element is selected again and does not change automatically.
- **Font options moved to formula ribbon**
 - CI: NG-11067
 - The font options of the formula editor have been integrated into a separate ribbon menu.
- **Font options added to the context menu**
 - CI: NG-11070
 - Font options are now also available in the context menu of text box items.
- **Box selection supplemented with an exclusive selection**
 - CI: NG-11138
 - In addition to the inclusive selection, an exclusive selection has been introduced that only selects fully enclosed objects.
- **Line extension without coordinate shift**
 - CI: NG-11139
 - Lines can now be extended horizontally or vertically without changing the other coordinate of the line.
- **Elements inserted multiple times remain selected**
 - CI: NG-11141
 - When inserting several objects, these remain automatically selected so that you can continue working directly.
- **Undo redo stack is retained after saving**
 - CI: NG-11161
 - The undo redo stack is no longer emptied after saving, but only when the report designer is closed.
- **Editor displays focus correctly**
 - CI: NG-11180
 - The editor now correctly shows whether it is focused and allows direct typing without having to click again.
- **Process variable information can be used regardless of compaction stage**
 - CI: NG-11296
 - Information such as the identification and designation of a process variable can now be used in all reports, regardless of the summarization level.
- **"Use default" checkbox active by default**
 - CI: NG-11360
 - The font settings now use the global defaults by default, which simplifies operation.
- **Delete function added to the WYSIWYG menu**
 - CI: NG-11363
 - The context menu in the WYSIWYG editor now also contains the "Delete" option.

- **Improved font standards for new tables**
 - CI: NG-11395
 - New tables now use consistent font formats: Arial 8 Bold for groups and headers, Arial 8 Standard for data and footers.
- **Font settings for footers added**
 - CI: NG-11411
 - Footer rows now have their own font settings in the table properties.
- **Focus remains in the formula editor after drag & drop**
 - CI: NG-11425
 - After inserting a process variable using drag & drop, the focus is retained in the editor.
- **Various operating improvements**
 - CI: NG-11445
 - Various small UX optimizations have been implemented, including better scrolling behavior, keyboard control and undo behavior.
- **Improved selection behavior when moving**
 - CI: NG-11470
 - Several selected objects can now be moved together.
- **Drawing area always remains visible**
 - CI: NG-11478
 - The report layout always remains in the visible area when scrolling and zooming.
- **UX improvements in the handling of tables**
 - CI: NG-11509
 - Table behavior has been optimized, including automatic adjustment of footers, drag & drop of process sizes and improved standard formatting.
- **Standard texts for columns and footers translated into English**
 - CI: NG-11580
 - With English language settings, standard texts such as "New Column" are displayed correctly as "New Column".
- **Group selection now also selects sub-objects**
 - CI: NG-11659
 - When a group is selected, the associated sub-objects are also selected automatically.
- **Fill/Frame options in the ribbon**
 - CI: NG-11090
 - Based on the Microsoft Office product range, the options for filling and framing objects have been added to a central location in the ribbon.
- **New cell contents centered**
 - CI: NG-12060
 - By default, the vertical alignment of the table columns in a new report is set to center. At the same time, line break is activated.

Database Engine

- **Current compression level**
 - CI: NG-11239
 - The current compression level is now stored in the compression path instead of the data path to avoid inconsistencies with multiple clients.
- **New formula for hard disk performance**
 - CI: NG-11426
 - A new formula for evaluating hard disk performance has been introduced. This can now differentiate between SSDs and hard disks.

Designer

- **Extended process variable properties in export**
 - CI: NG-9566
 - Additional properties of process variables (VGs) are now available in the export, including filter names as parameters for job calls.
- **File attachments in the service area simplified**
 - CI: NG-10328
 - The handling of file attachments in the service configuration has been revised. An explicit distinction is now made between file copies and file links.
- **Import / export remote notification**
 - CI: NG-11081
 - The import and export function for remote notifications has been revised so that the monitoring flags are now also transferred correctly. These include limit value exceedances, undercutting and other types of monitoring.
- **Option for automatic logout moved to expert view**
 - CI: NG-11147
 - The option for automatic logout is now only available in expert view.
- **Optimized formula editor frame**
 - CI: NG-11233
 - The frame below the OK/cancel buttons in the formula editor has been widened for better usability.
- **Key figure template interface improved**
 - CI: NG-11335
 - The user interface for key figure templates has been revised to better display long parameters and breaks.
- **External variables with special characters**
 - CI: NG-11369
 - The use of external variables with special characters in autosizes has been improved, including automatic embedding in GetVar().
- **Horizontal scrollbar for notification triggers**
 - CI: NG-11386
 - The horizontal scrollbar has been added to the configuration area for notification triggers.

- **Message for new layouts improved**
 - CI: NG-11538
 - The message for new layouts in the old print version has been revised.
- **Unique name of report folders**
 - CI: NG-11625
 - Report folders and form pages must now be clearly named. During the update, ambiguous report folders are automatically renamed and documented in a separate file in the plants backup path.
- **Preview watermark**
 - CI: NG-12096
 - A watermark has been added to the report preview to indicate that it is not a 1:1 representation of the report.
- **Access changes for acron Visual users**
 - CI: NG-12137
 - In rare cases, changes to access to acron Visual may not have been recognized as changes, and configuration changes may not have been saved.
- **Extension of configuration check**
 - CI: NG-12092
 - In some cases, the configuration check may take longer than expected. This is primarily due to the recreation of all report preview images. Accordingly, the configuration check has been divided into two modes: "Configuration check" and "Configuration check and preview images." The former checks the configuration as usual and creates preview images if necessary. The latter option always recreates the preview images.

Help

- **Explanation of the new user display added**
 - CI: NG-11005
 - The help has been expanded to include an explanation of the changed display of users and the authorization concept from version 10.1, which is now based on group level.
- **Character limit for external variables and process variables documented**
 - CI: NG-11604
 - The maximum number of characters for the identification and designation of external variables and process variables has been added to the help.
- **Example CSVs available for download**
 - CI: NG-11629
 - The help now contains downloadable sample files for the CSV import of manual entries, value overrides and deletions.
- **Multiple recipients documented in e-mail dispatch**
 - CI: NG-11757 #9116
 - The help now describes how multiple recipients can be specified separated by semicolons when sending e-mails by job. Spaces are not allowed.

- **REST API Help**
 - CI: NG-11915
 - The help section for the REST API has been extensively expanded and updated to meet the new requirements.

Provider

- **Provider drivers may no longer write to the plant path**
 - CI: NG-9402
 - The provider drivers have been adapted so that they are no longer allowed to write directly to the local plant path. Instead, the PlantCache path is always used when importing variables from the control system. This increases security and prevents unwanted changes to local plant directories. Exceptions apply to certain discontinued drivers that are no longer supported with version 10.2.

Reporter

- **Print function for several reports at the same time**
 - CI: NG-10454
 - The print function in the Reporter has been extended so that several reports can now be printed simultaneously - a significant simplification for users who regularly need to output a large number of reports.
- **Save export settings per user**
 - CI: NG-11550
 - The reporter now remembers the last export settings used for each user so that these are automatically restored after a restart.
- **Limits of manual value entry adjusted**
 - CI: NG-11683 #8569
 - The previous limit of 250 manual process values in the input screen has been adjusted depending on the summarization level (250 annual values, 2,000 monthly values, 10,000 daily values).

REST API

- **Legacy functions added**
 - CI: NG-10823
 - Older API functions have been transferred to REST API version 10.2 to ensure compatibility.
- **Log entries optimized**
 - CI: NG-10900
 - Repeated, identical log entries are now automatically summarized to simplify logging.

- **Option for scheduled recalculation when saving**
 - CI: NG-11168
 - When saving via the REST API, you can now select whether a scheduled recalculation should take place.
- **Missing reporting functions added**
 - CI: NG-11185
 - Functions required for report output have been added to the REST API.
- **Error messages standardized**
 - CI: NG-11331
 - Different or missing error messages for access errors have been consolidated and standardized.
- **Improved inline documentation**
 - CI: NG-11700
 - The documentation within the REST API has been revised and improved.
- **REST API warning messages added**
 - CI: NG-11862
 - New warning messages have been introduced in the REST API.
- **Export certificates while REST API is running**
 - CI: NG-11845
 - A button has been added to the admin that can be used to add certificates directly to the certificate store while the Rest API is running. This makes it easier to set up an HTTPS connection between the REST API and the client, as manual import via the certificate wizard is no longer necessary.
- **REST API prohibit duplicate headers**
 - CI: NG-11860
 - The handling of HTTP headers in the REST API has been documented and optimized. Although the API accepts several identical headers, it only considers the first occurrence internally. Further headers are ignored and there is no prioritization. The client configuration can now be customized directly on the client side, which increases flexibility.
- **Use REST API client configuration, if available**
 - CI: NG-11935
 - If a client has set alternative connection parameters, these are now used preferentially. The regular parameters are only used if no alternative settings are available. This improves the connectivity and adaptability of the API for different client scenarios.
- **Improved error messages**
 - CI: NG-11965
 - The error message when calling non-existent endpoints in the REST API has been revised. Instead of a message about the version, it is now clearly displayed that the requested endpoint does not exist. This makes it easier to diagnose errors and ensures greater transparency for API requests. In addition, the clarity of other error messages has been improved.
- **REST API encoding with or without BOM**
 - CI: NG-12263
 - By default, REST API responses are encoded with UTF8 BOM. However, some programs cannot handle the first 3 bytes of JSON responses, which represent

the byte order mark (BOM). On the REST API configuration page, you can now set whether UTF8 or UTF8 BOM should be used.

Bug fixes

Admin

- **Troubleshooting for dialog windows outside the visible area**
 - CI: NG-10985
 - Dialog windows sometimes opened outside the visible area in multi-monitor setups with different scaling. This meant that users could no longer interact with the window. The calculation of the window coordinates has been adjusted. Dialogs are now always displayed in the visible area of the main window. A fix automatically moves invisible windows to the visible area.
- **Option 'Uninstall services' correctly activated/deactivated**
 - CI: NG-11072
 - The option was also active when no services were installed. The logic has been revised so that the option is only active if services are actually installed.
- **Exported certificates are now stored in the desired location**
 - CI: NG-11151
 - The certificate was not saved on the desktop as expected, but in a different directory. A "Save As" dialog is now displayed so that the path and name can be selected. Overwrite is queried.
- **Dialogs no longer expand unintentionally across the entire screen**
 - CI: NG-11517
 - Dialogs without a saved position were sometimes dragged to full screen size. The initialization of the dialog size has been adjusted.
- **Fixed NullPointerException when expanding a plant**
 - CI: NG-11611
 - A NullPointerException occurred when directly expanding a plant after starting the admin. The error has been corrected.
- **PortControl now overwrites correctly marked text**
 - CI: NG-11732
 - When entering text in PortControl, the selected text was not overwritten but added to. The behavior has been adjusted.
- **Missing license is now correctly detected**
 - CI: NG-11819
 - Despite a running REST API and database server, the Designer could not be started. The cause was a missing license, which is now correctly detected and reported.
- **Database server status is reliably displayed in the plant overview**
 - CI: NG-11870
 - The status of the database server disappeared sporadically from the overview. The display has been stabilized.

- **Certificate information made visible in Admin REST API**
 - CI: NG-11953
 - The display of certificate information for the REST API in Admin was incorrect and has been corrected. Certificate details are now visible again as expected and facilitate the management of HTTPS connections.
- **REST API Client Config is correctly hidden on the server side**
 - CI: NG-11948
 - The client configuration of the REST API is no longer displayed on the server side. The display has been revised so that only relevant configuration data is visible and the clarity in the admin has been improved.

Alert

- **Alert / Interface / Names not consistent for filters**
 - CI: NG-11675 #4711
 - Three different definitions led to inconsistent naming in the Alert module. Suggestion: Standardized use of "Identification" in the {{Variable}} field and adapt the help accordingly. Validation confirms the correctness of the assumption.

Basis

- **Icons of the system programs (e.g. Engine, Provider, Mirror, ...) have been enlarged**
 - CI: NG-11123
 - The icons have been revised and resized to ensure better visibility and consistency.

Report

- **Pie chart shows no information for missing values**
 - CI: NG-11816 #9427
 - If no values were available for a year, the pie chart was previously displayed empty. This has been adjusted: The diagram is now displayed symbolically and provided with a note so that users can recognize that no data is available.

Report Designer

- **Text editor does not update after drag & drop on table footer area**
 - CI: NG-10912
 - After drag & drop into a table footer, the editor was not updated. The updating of the editor has been improved.
- **If new footer rows are added via the properties window, the content of the table should be updated directly**
 - CI: NG-10964

- After adding footer rows via the properties window, the table was not updated. The update has been corrected.
- **Scale and labeling of the level indicator is cut off in the report preview and in Visual**
 - CI: NG-10966
 - Scales and labels were cut off. The scaling has been standardized.
- **Selecting several columns with the Shift key pressed should only select the clicked columns**
 - CI: NG-10975
 - The multiple selection with Shift did not work as expected. The selection has been corrected.
- **Insert into object list**
 - CI: NG-11018
 - Inserting objects in the layer tree was not possible when right-clicking on a layer or folder. The context menu logic has been adapted.
- **Elements with errors are not highlighted in color in the objects window**
 - CI: NG-11069
 - Incorrect elements were not marked correctly. The marking logic has been standardized.
- **Fill color visible with deactivated shapes**
 - CI: NG-11088
 - When dragging and dropping shapes with deactivated filling, the color was still displayed. The preview has been corrected.
- **View not updated after new object alignment**
 - CI: NG-11166
 - After aligning elements to the edge, the view was not updated correctly. The presentation has been adjusted.
- **LED display in the LevelIndicator corrected**
 - CI: NG-11204
 - The LED display showed too many LEDs for small value ranges. The calculation has been revised and optimized.
- **Footer of the first column appears on the second page**
 - CI: NG-11294
 - Footers were displayed incorrectly on the second page. The positioning has been corrected.
- **Column header does not remain active with longer input**
 - CI: NG-11339
 - The column header in the PropertyGrid was deactivated after the first character. The field now remains active until the focus changes.
- **Outlines in property and variable windows**
 - CI: NG-11348
 - Visual inconsistencies in the UI windows have been fixed. The presentation is now uniform and reduced.
- **Table and columns remain active after column deletion**
 - CI: NG-11373
 - After deleting a column, the associated UI elements remained active. They are now deactivated correctly.

- **Adding an SVG image generated invalid values**
 - CI: NG-11378
 - An invalid Y2 value was generated when inserting SVGs. The SVG processing has been corrected.
- **Dynamic diagrams cannot be deleted**
 - CI: NG-11381
 - Dynamic diagrams could not be deleted correctly. Compatibility and functionality have been revised.
- **Printer settings are not applied**
 - CI: NG-11388
 - Changes to the page orientation have not been adopted. The settings now work as expected.
- **State of the "Use default" checkbox for fonts was not saved**
 - CI: NG-11399
 - The setting was not applied when saving. The storage now works reliably.
- **Standard fonts are not updated after changes**
 - CI: NG-11400
 - Changes to the default font have not been applied to all objects. The update is now carried out correctly.
- **Colors in the LevelIndicator are not saved correctly**
 - CI: NG-11420
 - The settings for foreground and background color in the LevelIndicator were not applied correctly. Storage now works reliably.
- **Crash during shift selection in the object tree**
 - CI: NG-11431
 - Multiple selection with the Shift key pressed led to a crash. The selection function has been stabilized.
- **Undo function for group lines from the form wizard**
 - CI: NG-11447
 - An error in the undo function when working with group lines in the form wizard has been fixed. The undo function now works reliably again.
- **Vertical alignment in footers incorrect**
 - CI: NG-11471
 - The vertical alignment was not displayed correctly. The layout logic has been corrected.
- **plant.person shows incorrect information**
 - CI: NG-11480
 - The variable showed the plant name instead of the operator. The allocation has been corrected.
- **Toolbar inserts text constants instead of functions**
 - CI: NG-11490
 - Text constants were incorrectly used when inserting functions. The toolbar function has been corrected.

- **Crash with objects outside the page**
 - CI: NG-11491
 - Selecting multiple objects outside the page area caused the program to crash. Error handling has been added.
- **Quotation marks removed from group formulas**
 - CI: NG-11502
 - The output of report.table.groupline contained unnecessary quotation marks. The formatting has been cleaned up.
- **Table does not update after dragging and dropping a process variable column**
 - CI: NG-11510
 - When inserting a new column using drag & drop, the table was not updated immediately. An additional click was necessary. This behavior has been corrected.
- **Undo/Redo does not work when dragging and dropping variables**
 - CI: NG-11511
 - After inserting variables using drag & drop, no undo/redo stack was created. The functionality has been added.
- **Pen width for dividing line cannot be changed**
 - CI: NG-11515
 - The setting for the pen width of the left dividing line was not applied. The entry is now saved and applied correctly.
- **Group heading alignment is not saved**
 - CI: NG-11691 #8601
 - After saving, the alignment was reset. Saving now works correctly.
- **Language change is not fully applied**
 - CI: NG-11745
 - After changing the interface language, parts of the user interface remained untranslated. The translation has been completed.
- **Group functions not always active**
 - CI: NG-11746
 - The buttons for creating and deleting groups were not always available. The activation logic has been corrected.
- **Line missing in last column when "Adjust header height to group row" is selected**
 - CI: NG-11754
 - The line in the last column was not drawn correctly. The presentation has been adjusted.
- **Groups disappear after saving**
 - CI: NG-11765
 - Groups were deleted after saving. The storage was stabilized.
- **Report diagram tree represents only one group level**
 - CI: NG-11820
 - The object tree showed only one group level. The presentation has been expanded.
- **Drag & Drop uses incorrect syntax in the annual report**
 - CI: NG-11849 #9674
 - yval was used instead of mval. The syntax has been corrected.

- **"Delete column(s)" button remains active**
 - CI: NG-11868
 - The button remained active even after the second click. The UI logic has been corrected.
- **Improved footer selection for deletion**
 - CI: NG-11872
 - Deleting a footer was only possible after selecting multiple footer cells. Single cell selection has been added.
- **Dialog boxes always appear centered in the main window**
 - CI: NG-11983
 - The printer dialog and language selection dialog in the report designer have been adjusted so that they no longer appear in the invisible area, but are always displayed centered in the main window.
- **Improved logic for footers when adding new columns**
 - CI: NG-11882
 - When inserting new columns by double-clicking in the report designer, the settings of the currently selected column are now logically applied. The previously inconsistent color assignment has been corrected so that the new columns have the expected properties.
- **Undo/Redo for column width in tables corrected**
 - CI: NG-11884
 - The width of table columns is now restored correctly after undo/redo. Previously, incorrect values were displayed after Undo/Action, and the selection in the editor was not consistent with the properties of the columns.
- **Workspace in Report Designer is adjusted correctly when opened**
 - CI: NG-11886
 - When opening the report designer, the workspace is now automatically adjusted to fit the window. Users no longer need to manually click on "View – Fit to Window" to obtain the optimal display.
- **Improved visibility of rectangles in the WYSIWYG editor**
 - CI: NG-11903
 - Rectangles in the editor now remain visible even when outline and fill patterns are disabled. Selecting rectangles no longer unexpectedly changes their active status.
- **Highlighting of table columns in the WYSIWYG editor corrected**
 - CI: NG-11911
 - After deselecting a table, no columns are displayed as selected. The visual representation of the table selection is now correct and prevents confusing highlighting.
- **Crash prevented when removing from multi-selection in the report designer**
 - CI: NG-11912
 - Removing objects from a multiple selection using Shift no longer causes the report designer to crash.

- **Scaling of multiple selected objects optimized**
 - CI: NG-11914
 - Scaling of multiple selected objects is now proportional and without unwanted copies. Visual artifacts and errors during undo/redo have been fixed, so editing shapes works smoothly.
- **Copy-paste function in WYSIWYG editor standardized**
 - CI: NG-11924
 - The copy-paste function in the editor now works consistently via both the menu and keyboard shortcuts. New objects are inserted correctly and no longer appear outside the page. The logic now corresponds to the standard behavior of comparable applications.
- **Adding shapes and visualizations on small screens enables**
 - CI: NG-11959
 - The submenus in Designer no longer close prematurely, allowing new shapes and visualizations to be added even on small screens. The usability and appearance of the ribbon groups have been improved.
- **Faulty triggers in ribbon styles removed**
 - CI: NG-11968
 - The ribbon styles have been revised and faulty triggers removed. This reliably prevents display problems and resource errors when switching between compact and normal mode.
- **Mouse behavior optimized for object creation**
 - CI: NG-11978
 - When creating objects, the frame no longer sticks to the mouse pointer when leaving the canvas. Object creation now works like in PowerPoint: the element is drawn up to the respective point, even if the mouse pointer is outside the window.
- **Improved handling of guides**
 - CI: NG-12247, NG-12258
 - The handling of guides has been improved in various places. This means that the position of guides is now always saved correctly and the position of guides no longer jumps unexpectedly.
- **VG.id / VG.name in monthly reports if only daily interval is activated**
 - CI: NG-12366
 - It is now possible again to use the name or identification of a process variable in reports for which no compression has been activated. For example, in the monthly report, if the corresponding process variable is only summarized for daily values.

Designer

- **Troubleshooting incorrect number recognition in the formula parser**
 - CI: NG-11222
 - In rare cases, the formula parser incorrectly recognized numbers as functions. The pointer increment has been corrected.

- **Incorrect display of trigger settings in Designer**
 - CI: NG-10355
 - Window borders and scroll bars were missing when the window was minimized. Layout has been adjusted.
- **Standardization of icons in the designer**
 - CI: NG-11006
 - Inconsistent icons were replaced with uniform ones and made available for help.
- **Errors in comments in the formula editor corrected**
 - CI: NG-11022
 - The formula editor now supports comments in the format `/* comment */`. The help section has been updated accordingly.
- **Error with external variables containing hyphens in the formula editor**
 - CI: NG-11055
 - Hyphens were misinterpreted. The GetVar function has been adjusted accordingly.
- **SSD warning does not jump to the error location in the PropertyGrid**
 - CI: NG-11291
 - Clicking on the error message now correctly takes you to the relevant location.
- **Display problem with key figure templates**
 - CI: NG-11320
 - Text box size has been corrected so that content is displayed in full.
- **Error due to spaces in NullVal() function**
 - CI: NG-11370
 - Spaces caused syntax errors. Parser has been adjusted.
- **Incorrect storage of formulas with errors**
 - CI: NG-11380
 - Formulas with errors were not saved. Storage routine has been revised.
- **Validation error "CallbackNotSet" for calculation variables**
 - CI: NG-11385
 - Cause of error identified and validation logic corrected.
- **Alignment errors in text fields**
 - CI: NG-11532
 - Fix for correct alignment has been implemented.
- **Incorrect help for importing manually entered values**
 - CI: NG-11589 #7634
 - Timestamps in examples have been corrected.
- **Missing text resources in error message**
 - CI: NG-11603
 - Error messages have been added to provide clear feedback.
- **Problems with plus signs in key figure identifications**
 - CI: NG-11626
 - Support for plus signs in identifications has been added.
- **Missing horizontal scroll bar for triggers**
 - CI: NG-11666
 - Scroll bars have been added to make all input elements accessible.

- **Run button inactive after file selection**
 - CI: NG-11740
 - Activation has been corrected.
- **Incorrect insertion of formulas in the formula editor**
 - CI: NG-11759
 - Function is now inserted correctly.
- **Help and cursor behavior in the formula editor are incorrect**
 - CI: NG-11835
 - Tooltip, parameter navigation, and help display have been restored.
- **Truncated texts and jumping UI elements**
 - CI: NG-11871
 - UI has been stabilized and layout errors fixed.
- **Fixed UI error in ribbon when resizing window**
 - CI: NG-11985
 - Unexpected errors and resource problems occurred when minimizing or maximizing the main window in Designer. The order of styles in the ResourceDictionary has been corrected so that the interface now remains stable and error-free.
- **Fixed error when logging in after a previous failed attempt on another plant**
 - CI: NG-11913
 - After a failed login at facility A, it is now possible to log in at facility B again. Session management has been revised so that login problems no longer occur after errors in other plants.
- **Designer correctly saves window position when opening the report designer**
 - CI: NG-11919
 - When the report designer is opened, the current position, size, and status of the acron Designer are saved and restored after closing. This prevents the designer from jumping to another screen and improves user-friendliness.
- **Warning disappears again as expected after configuration check**
 - CI: NG-11930
 - A warning in the designer remained even after a successful configuration check and re-login. The behavior has been corrected so that warnings are removed after the configuration has been checked and corrected.
- **Validation of external process variables adjusted to live calculation variables:**
 - CI: NG-11936
 - External process variables are now correctly accepted in all live calculation variables and are no longer incorrectly rejected. The validation logic has been revised for greater flexibility and correct processing.
- **Validation of process data linkage**
 - CI: NG-12141
 - Fixed a bug that caused changes to the process data linkage with invalid values to not display an error message and the change to not be saved.
- **Horizontal scrolling improved for multiple selections**
 - CI: NG-12288
 - Scrolling behavior when editing selected objects simultaneously has been significantly improved.

Graph

- **Display error in settings**
 - CI: NG-11562
 - Various display errors have been fixed in the settings.

Help

- **Updating the image description help**
 - CI: NG-11454
 - The process for inserting diagrams and images has been simplified since version 10.1. The help documentation has been updated accordingly.
- **Correction of the English help for the filter condition**
 - CI: NG-11791 #4711
 - The English help for the filter condition was visually misaligned. Layout has been corrected.

Provider

- **SessionName is not recognized by the OPC UA server**
 - CI: NG-11042 #4151
 - The SessionName of the acron provider was not transmitted correctly, which led to problems with data sharing. The transmission has been adjusted.
- **Encrypted OPC UA connection fails**
 - CI: NG-11694 #8674
 - The connection to S7 1512 PLC and demo server via OPC UA HA with encryption Aes256Sha256RsaPss did not work. The cause was the certificate transmission. Error has been analyzed and fixed.
- **OPC UA HA provider lost connection and stopped reading data (T3000 OPC UA server)**
 - CI: NG-11949 #10055
 - In rare cases, connection interruptions and thus data gaps could occur on T3000 OPC UA servers. The connections are now maintained correctly and data is loaded completely.
- **Def and ini files of the providers now contain the provider number and are regularly uploaded to the server.**
 - CI: NG-10124
 - The provider configuration files (.def and .ini) now always contain the provider number and are regularly transferred from the client to the server. This prevents data loss during updates and simplifies the recovery of historical provider data.
- **Wizcon Provider: Alarm connection removed, alarm data error fixed**
 - CI: NG-11730
 - The alarm connection in Wizcon Provider has been removed because it led to errors and exceptions. The help and driver configuration have been adjusted accordingly so that only the measurement data connection is supported.

- **Fixed an error with the MQTT provider after updating to 10.1 SP2**
 - CI: NG-11941
 - After updating to acron 10.1 SP2, the MQTT provider was no longer able to record data. The source of the error has been eliminated, so data recording is working reliably again.
- **OPC UA - Nodes with long IDs**
 - CI: NG-12367
 - Fixed an issue that prevented the import of nodes with very long IDs.

Reporter

- **Missing date column for multi-day data display**
 - CI: NG-11247
 - When selecting a time range with data for one day only, no date column was displayed. The display has been corrected so that the date is now always visible.
- **Top-level exception for context menu actions**
 - CI: NG-11652 #8265
 - The reporter crashed when a context menu was reopened after closing a property dialog. Error handling has been improved.
- **Incorrect date entry in input masks for hand sizes**
 - CI: NG-11733 #8995
 - Data was assigned to incorrect days in input masks. The assignment has been corrected so that the input works reliably again.

REST API

- **Incorrect time formatting for daily data**
 - CI: NG-11150
 - The GetDayData() function returned timestamps without the time. The formatting has been adjusted so that pminm and pmaxm now contain correct times.
- **No data at AlertData despite successful status code**
 - CI: NG-11263
 - The GetAlertPriorityStatistics function did not return any data or error code. The API has been corrected so that a valid response is now returned.
- **Error due to duplicate key when starting the REST API**
 - CI: NG-11414
 - When starting the REST API, an error occurred due to duplicate keys in the SecurityLogger. Key management has been cleaned up.
- **Certificate authorization fails for methods with [AllowAnonymous]**
 - CI: NG-11552
 - The REST API was unable to perform certificate authorization when calling an anonymous method for the first time. The initialization has been corrected.

- **Double authorization for protocol queries**
 - CI: NG-11616
 - The ChangeProtocolController/GetConfigProtocol method resulted in double authorization. The logic has been cleaned up.
- **NullReferenceException in the data converter**
 - CI: NG-11703
 - A NullReferenceException occurred in several data queries. Error handling in the converter has been improved.
- **Incorrect response from GetStringCompData**
 - CI: NG-11704
 - The GetStringCompData function returned an error if the requested PVID was not in string format. The format check has been adjusted.
- **Incorrect time formatting in ServiceActionData**
 - CI: NG-11743
 - The time values were processed with incorrect properties and formatting functions. The formatting has been corrected.
- **Error in SwaggerGenerator**
 - CI: NG-11747
 - Exceptions occurred while generating the Swagger documentation. Generation has been stabilized.
- **Error message for external variables despite correct type**
 - CI: NG-11782
 - The REST API incorrectly reported that an external process variable did not have a text format. The type test has been corrected.
- **Error in the "Settings for attachment..." dialog box**
 - CI: NG-11784
 - The dialog displayed incorrect or incomplete content. The presentation has been revised.
- **Security logging always active despite start parameters**
 - CI: NG-11846
 - The logging rules ignored the startup parameter for disabling SecurityLogging. The configuration has been corrected.
- **Save without configuration changes**
 - CI: NG-12234
 - A storage request was successfully executed using the REST API, even though there were no changes to the plant configuration. This has been corrected accordingly.
- **ENUM type GetGeneralComment corrected**
 - CI: NG-12279
 - The Enum type in GetGeneralComment has been corrected and now returns correct information when converted.
- **WriteHandValComments corrected and expanded**
 - CI: NG-12313
 - The WriteHandValComments function contained four different ways to write text/comments. The function has been marked as obsolete and replaced by four separate functions:

- WriteServiceHandValComments (Comments on entities, either switching cycles or elapsed time)
- WritePvComments (process variable-specific comments)
- WritePvComments (process variable-specific comments)
- WriteHandValStringData (daily, weekly, monthly, yearly values for process variables of type text)

Service

- **Error message for empty service paths**
 - CI: NG-11684 #8495
 - Empty directories in the Service module led to error messages. The check has been adjusted so that empty paths are no longer considered errors.
- **Crash of the module Service when changing plant**
 - CI: NG-11690
 - Switching between plants with and without entities could cause the Service module to crash. Error handling has been improved.

Service life and version discontinuations

Version	Release	End of Life	End of Service*
10.2	12.02.2026	01.03.2028	01.03.2029
10.1 GMP	13.12.2024	01.01.2030	01.01.2031
10.1	12.08.2024	01.03.2027	01.03.2028
10.0	27.10.2023	01.09.2025	01.09.2026
9.4	17.03.2023	01.01.2025	01.01.2026
9.3 GMP	30.11.2022	01.12.2027	-
9.3	12.08.2022	01.01.2024	-
9.2	03.09.2021	01.09.2023	-
9.1	26.03.2021	01.09.2023	-
9.0	21.12.2020	01.04.2023	-
8.5 GMP	02.11.2020	01.12.2027	-
8.5	02.03.2020	01.01.2023	-
8.4 GMP	11.04.2018	01.05.2023	-
8.4	09.06.2017	01.04.2022	-
8.3	11.07.2016	01.09.2018	-
8.2 GMP	27.08.2015	01.02.2019	-
8.2	27.08.2015	01.02.2018	-
8.1	09.03.2015	01.03.2018	-
8.0	10.04.2014	01.12.2016	-
7.3	02.05.2013	01.03.2020	-

*End of Service is granted for licenses with acron Secure Maintenance contract

System Prerequisites

acron 10.2 is released for the following 64-Bit operating systems:

- Windows Server 2019
- Windows Server 2022
- Windows Server 2025
- Windows 10 20H2 - 22H2
- Windows 10 Enterprise LTSC 2021
(Equivalent SAC release: Windows 10 21H2)
- Windows 10 IoT Enterprise
- Windows 11 21H2 - 25H2
- Windows 11 Enterprise LTSC 24H2

Note

Windows on ARM is not supported by acron.

Microsoft .NET Supported Versions

acron uses the following Microsoft .NET and .NET Core versions:

acron	.NET
from 10.1	.NET 8
from 9.3	.NET 6.0 (LTS)
from 8.5	.NET Framework 4.8.1 (<i>REST API from 9.0: .NET 5.0</i>)
from 8.2	.NET Framework 4.7.2

[Support periods](https://learn.microsoft.com/de-de/lifecycle/products/microsoft-net-and-net-core): <https://learn.microsoft.com/de-de/lifecycle/products/microsoft-net-and-net-core>

Installation

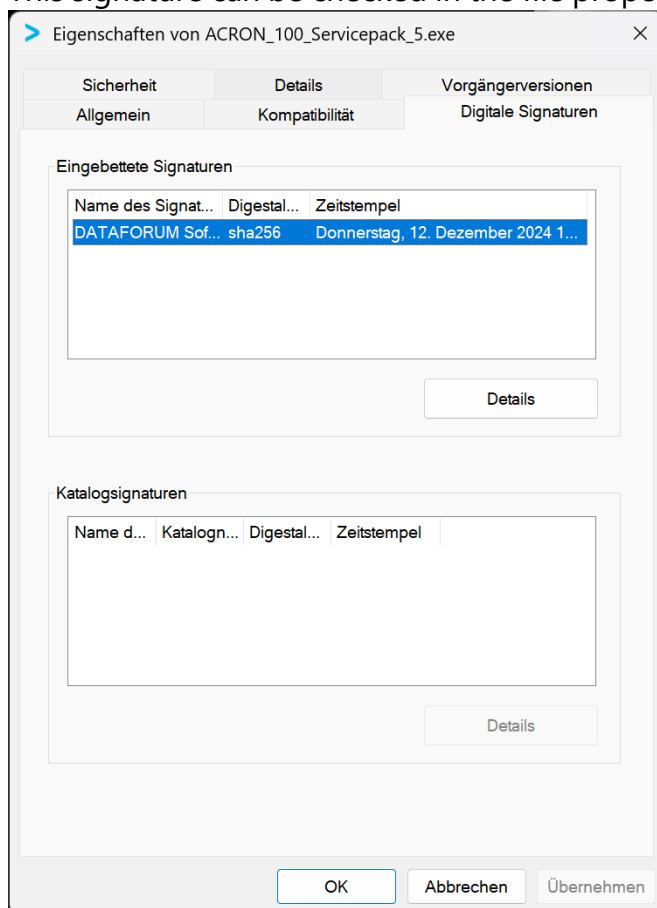
Installation instructions

- You will need administrator privileges to perform the installation.
- Never install acron into the same path of an acron installation smaller than 8.0.
- Always select the standard installation path (no specific adjustments to the installation path)

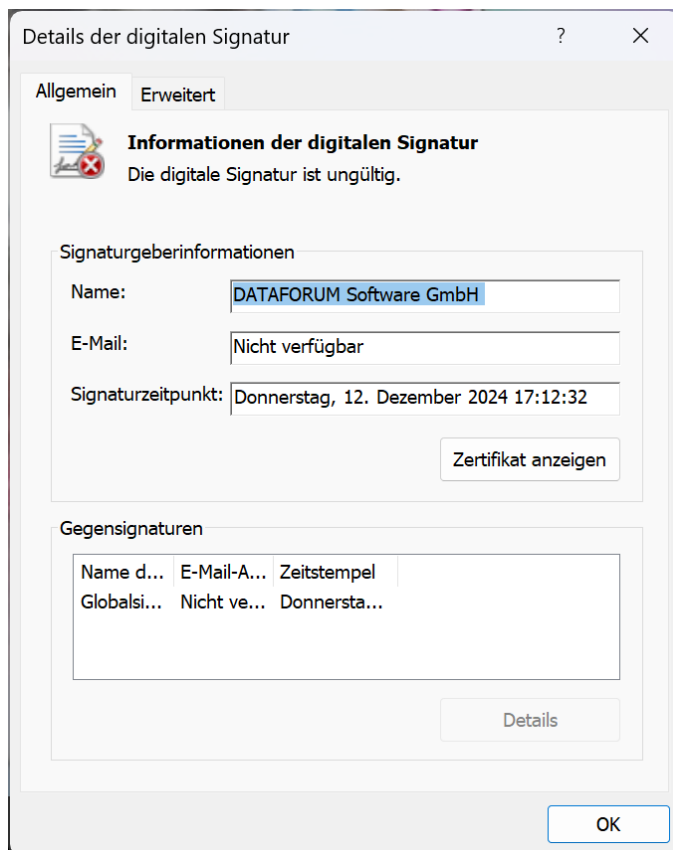
- **Antivirus and digital signature**

The acron installation files are digitally signed to ensure that they have not been tampered with.

This signature can be checked in the file properties under "Digital signatures".



If the digital signature is marked as invalid, the corresponding file may be damaged or may have been changed after being issued by the manufacturer.



Microsoft Defender is validated for all versions and should never report suspicious files in the acron installation.

Antivirus software from third parties is not validated. Suspicious files found by third-party software are to be evaluated as false positives if the digital signature of the files in question is intact.

Licensing information

- The software can be operated without restriction only together with the license module (hardlock [HL] / file license key [FLK]).
- The Hardlock / DLS must be installed on the acron server.
- acron starts as a demo version and allows the use of 25 process variables if no HL / FLK is found.
- No commercial use of the software is then permitted.

Installation procedure

- Start the `Setup.exe` program from the main directory of the installation medium.
- Language: Select your preferred language.

- Additives: After the basic installation, you can install additional add-ons (e.g. ODBC server, specific export formats).
- Restart: Restart the computer after installation.

Further installation options

- There is an `SetupStart.ini` directly on the installation medium that can be used to control the installation process. Detailed information can be found there.
- If several acron versions are installed on one computer unit, we recommend the following installation paths:

```
C:\Program Files\ACRON85  
C:\Program Files\ACRON94  
C:\Program Files\ACRON101  
C:\Program Files\ACRON102
```

Note

The setup can be adapted to your needs for automatic installation. For details, please contact VIDE [Support](#).

Uninstallation

- An uninstallation is possible in the system settings of the Windows menu "Apps and Features" user-guided, here the program `AcronUninstall.exe` is executed from the acron installation folder.
- A "silent" uninstallation can be carried out using the `AcronUninstall.exe /s` parameter. The "silent" uninstallation takes place without feedback.

Note

If you want to update plants from a version older than acron 7.3, you must first update the plant to version 7.3 with acron 7.3. You can obtain acron 7.3 as a download on request from your distributor.

For details about the update to the current acron version, please refer to the description of [acron_73_PlantUpdate](#).