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## Features

### Global

1. The plugin interface for framework plugins has been extended to process measurement points transmitted as grouped elements. [ID 12752]
2. A new function has been integrated into the scanner controller that allows converting disallowed control characters in Base64-encoded values. This function can be configured in the module settings for a specific processing type. [ID 12113]
3. Conditions can now define result values as size comparisons with paths. For example, it is possible to specify  $\leq 5$ ,  $\geq 12$  or  $5 < @@Value@@ < 12$  to evaluate the result accordingly. If the result is not a number, the else branch is used. [ID 12195]
4. SQL queries from service brokers have been adjusted and will now retry up to three times in case of a deadlock. [ID 12450]
5. The manager has been adapted to expand the rework concept within the ELAM system. [ID12873]

### Administration

1. The test plan creation for question lists has been optimized, the page no longer scrolls. [ID 11001]
2. The version history icon has been changed to prevent confusion. [ID 12404]
3. Flowchart validation has been extended to check for valid RegEx in conditions. [ID 11822]
4. A new function allows selecting a print path within a flowchart. [ID 12284]
5. Another new function allows viewing references in other flowcharts. If a flowchart is used as a sub-flowchart in others, it is now possible to see in which versions a reference to a specific version exists. [ID 11166]
6. In rework, the status column now includes more colors and a status text. [ID 11161]
7. In the Flowchart Builder, multiple images can now be selected at once during import. [ID 12751]
8. In multi-database setups, it is now possible to preselect a default database. [ID 11162]
9. New configurations have been added to rework for controlling displayed PLAs. [ID 11160]

### Assistent

1. The key management system has been completely revised to improve display and usability. Existing users are now displayed in a data grid containing additional information for correct entry identification. A filter function for users has been added, and assignments can be created or removed without the corresponding key. [ID 9870]

### Analysis

1. The visualization and flowchart version can now be viewed in the PLA dashboard. [ID 11387]
2. A dashboard page for production times has been added. [ID 10942]
3. The dashboard now has permission settings and can be hidden for individual groups. [ID 11830]

### Controller

1. The Open Protocol Controller has been extended to evaluate error statuses for screwing results of MID 61. Processing has been expanded up to revision 7. [ID 12776]
2. A scan's result measurement point now includes all values from the applied filter specification. This allows tracking which filter condition led to a scan's status. [ID 12370]

### Installer

1. During an update, service brokers in the SQL database are now always cleaned up. [ID 11888]

## Bugfixes

### Global

1. Fixed an issue where the manager did not write the Visu-Event *Completed* entry to the PLA. [ID 12109]
2. Fixed a bug where a reworked PLA did not receive a current completion timestamp. [ID 12119]
3. Fixed an issue that prevented processing multiple simultaneously arriving PLAs. [ID 12452]
4. Fixed an issue in the module library that prevented multiple identical controllers from functioning correctly at different stations. [ID 12721]
5. Improved configuration for setting a log path using the current Windows username as a subfolder. [ID 12656]
6. Fixed behavior in rework so that PLAs from assemblies or pre-assemblies cannot be modified if they have already been integrated into PLAs for other products. [ID 11879]

### Administration

1. The settings button was removed from PZA since it no longer had a function. [ID 4655]
2. Fixed a display issue in rework. [ID 11899]
3. Fixed a bug that prevented correlations from being changed. [ID 12269]
4. Fixed an issue where correlations in master data could no longer be copied. [ID 12786]
5. The representation for preset signals in a TAF has been completely revised to address various issues that occurred with the old representation. The input popup is now more compact and adapts to the number of input and selection fields. Fields no longer scale beyond the edge of the page when there is a lot of text in an input field. Optional selection fields always contain a blank entry, allowing a selection to be removed again. Fields that are automatically populated with results from SQL queries and selection options related to database values always show the correct current values depending on already made selections or inputs. [ID 8867, 9081, 9483]
6. Fixed a bug that prevented flowcharts from being edited. [ID 12869]

### Assistent

1. Improved performance when many clients are connected, reducing high CPU load. [ID 12230]
2. Fixed incorrect display of FotoGxt on the screen when multiple users were logged in. [ID 11917]
3. Improved scaling in the PZA view. [ID 12658]
4. Fixed an issue with displaying additional texts in PZA. Older PZA versions using rich-text format now display correctly. [ID 12575]

### Analysis

1. PLA printing was optimized to speed up printouts of large PLAs. [ID 12254]

### Controller

1. Fixed an error when sending info data from the Open Protocol Controller. [ID 12100]
2. Fixed an issue with determining the correct configurations for processing incoming scans. [ID 12105]
3. Adjusted the scanner controller to improve compatibility with older filter specifications. [ID 12393]
4. Fixed links for complex elements such as pre-assembled PLAs in PLA details within the evaluation, ensuring they open the correct detail page. [ID 12556]

### Installer

## Contact

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