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Features

Global

1. The routine for processing DataSets has been standardized. [ID 14797]
2. For the automatic backup of PLAs, a maximum time interval (MAX-Delay) can now be configured, after which the backup is forced independently of measuring point events. [ID 8129]
3. A function library for web service connections has been extended. Classes and methods for using a REST client have been added. [ID 14907]

Administration

1. Flowchart steps can now be connected to a shared measuring point via a process link to represent an integrated rework process. [ID 6099, ID 13675]
2. DevExtreme has been updated to the latest version. [ID 14403]
3. In the sequencer, orders can now also be deleted even if not all partial orders of the batch size have been started. [ID 14440]
4. A new function has been added to the Flowchart Editor: Flowcharts can now be annotated with comment nodes that store a title and text; all comments are listed in a new overview in the header bar and can be jumped to directly with a click. [ID 14553]
5. A new function has been added to the Flowchart Editor that allows a .pdf file to be generated from flowcharts using an appropriate print layout. It can be used on the flowchart overview page. The converted flowcharts can then be printed or saved as a file. Only flowcharts with a release version can be printed. If no release version exists, the print icon is not displayed. The .pdf file can optionally be generated with a variant selection. In this case, a PLA with relevant information such as component part lists of the variant is generated and incorporated into the process creation. Conditions within the flowchart are then evaluated during the flowchart run using the PLA data. [ID 12780]

Assistant

1. For conditional TAFs, the value and description of the path determined from it are displayed in the TAF text. [ID 14724]
2. In the assistant, displays can now also be shown and processed for clients without a configured area. [ID 14846]
3. The transmission of serial data from the client has been extended with mode information. [ID 14860]
4. The authorization with input type 'Login' has been extended with a user check against the ActiveDirectory. [ID 15038]
5. The WsStart has been fundamentally rebuilt in this release. The internal processing of main orders and sub-orders (products) has been separated. There is now an independent OrderService for main orders and a new ProductService for products. This separation resolves performance issues that occurred with large data volumes. Configurable database queries are now centrally managed via a new SqlStatementManager, which also detects and reports outdated configuration entries.

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The import mode is now configurable. In addition to the previous behavior, new modes allow specifying whether only main orders, only products, or both are imported, and whether serial numbers should be generated automatically. A dedicated 'Main Orders Only Import' mode has been introduced for customers who only have main orders in the database: products are only created at runtime during marriage.

External identification systems can now be integrated via a configurable .dll. The DLL implements a uniform interface for activating, deactivating, and processing signals of the IdentSystem controller. The path to the DLL is stored via the area addition IdentSystemDllFullPath. The DLL for connecting a specific IdentSystem must be created if needed and requires additional programming effort!

An external user validation can now be integrated via a configurable .dll. The DLL implements a uniform interface for checking users, with which external authentication services can also be connected. The path to the DLL is stored via the setting UserValidationDllFullPath. The DLL for a specific user check must be created if needed and requires additional programming effort! In the area of batch size production, it is now possible to set uniqueness based on the serial number. The startup behavior when a serial number field is already filled has been standardized: the entered serial number is retained and no new one is generated. Deployments can now also be loaded via variant and sample part. Additionally, future deployments were previously only activated after a manual database trigger. A new ExpiryMonitor in the DeploymentDataService now monitors deployment time windows and automatically activates new deployments at the correct time.

Bugfix: When automatically starting orders with batch sizes via a trigger signal, under certain circumstances no serial number could be determined for the next order because the internal order list was being updated. Access to the list is now thread-safe.

The AutoStart integrated in the start form now only triggers on actual changes (order/serial number change or variant scan).

Also, newly added: serial number validation via configurable regex pattern (area addition snregex), PLA additions via configurable SQL statement, and two new reports for non-startable orders (1010) and products (1011). [ID 14671, 14488, 14486, 14928, 14396, 14395, 14373, 14460]

Analysis

Controller

1. For SWA devices, bitmasks can now be configured that automatically trigger messages at certain input states. These must be set up by Armbruster. [ID 14851]

Installer

Bugfixes

Global

1. When saving PIC entries, the associated host is now correctly stored. [ID 14632]
2. The rework flag on flowcharts was not correctly evaluated in the ELAM Manager in all constellations. This led to problems with the uniqueness of measurement value designations. This error has been corrected. [ID 14982]
3. A problem has been fixed where the parser object was not correctly recreated as specified in the configuration. [ID 15083]

Administration

1. A bug has been fixed that prevented the measuring point popup from opening in the PZA and checklists from being saved. [ID 14721]
2. When changing the station type in the administration, line assignments are now correctly updated. [ID 14788]
3. The import of flowchart files has been improved. [ID 14782]
4. An area can now be opened again even if the assigned line has been deleted. [ID 14973]
5. A bug has been fixed that prevented users from changing their assigned temporary password. [ID 14958]
6. For data changes in the database via the WebApi, the logged-in user is used for the audit fields (CreatedBy/EditedBy). [ID 15011]
7. A bug has been fixed that prevented users from changing their own password via the user management. [ID 15006]

Assistent

1. The authorization check via login has been extended to be backward compatible with older password encryption algorithms. [ID 14743]
2. A bug in a SQL query has been corrected so that the authorization check with Euchner Key or Scanner works again. [ID 15036]

Analysis

1. In the dashboard, URL fields in the PLA detail views are now displayed correctly. [ID 14768]
2. In the PLA printout, entries in the task list without an assigned worker are now correctly marked. [ID 4957]

Controller

1. An incorrect log output for sensor settings in the PickingController has been fixed. [ID 14779]
2. A bug has been fixed where the status of a running tightening operation ('batch running') was not correctly processed via OpenProtocol. [ID 14503]
3. The controller has been adapted to also load older configurations without errors, even if newer settings are not present. [ID 14963]
4. A problem with the checksum calculation in the SWA controller has been fixed. Checksums are now checked independently of the character tables set in the operating system. [ID 14969]

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[Installer](#)

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