WEBCON BPS 2025 R1

history of changes for version 2025.1.1.105

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1. Before upgrading WEBCON BPS

1.1. Important information

- To upgrade to **2025 R1**, you need to have active **Software Assurance** for perpetual licenses or an **active subscription license**. After the upgrade, you should update your license package to avoid system interruptions. To do this, make sure that your WEBCON BPS licenses have been updated – check the availability of **WEBCON BPS Server 2025** licenses in the license report available in **WEBCON BPS Designer Studio (system menu in the upper left corner of the application -> Licenses**. If necessary, download the updated licenses.

- If the changelog contains a section titled "Changes to existing features", please verify whether the changes will impact your implemented system in any way.

2. Security fixes

2.1. Updated components

- A security feature has been introduced to prevent users without administrator privileges from performing the **Generate an HTML printout** action.

3. Bug fixes

3.1.   General

- Fixed a bug that occurred during the platform update. The bug resulted from an incorrect script that updated the content of the database.

3.2.   Portal

- Improved the display of **Navigation menu** elements when searching for and opening a workflow instance in an application for which the user does not have privileges.

- Fixed a bug where selecting additional **Form types** in the configuration of a dashboard-embedded report resulted in deleting its **Calculated columns** and clearing the applied filters.

3.3.   Form

- Fixed a bug where after renaming an attachment and trying to add another attachment with the same name as the first attachment before the change, a message would appear stating that an attachment with the same name already existed.

- Fixed an error that allowed attachments to be overwritten even when the **Allow attachment editing** option was disabled in the workflow configuration.

- Fixed a bug that resulted in incorrect coloring of a **Chart** form field if the **Use data series color** option was selected for the chart color in WEBCON BPS Designer Studio and translations of the series names were added, and then the language in Portal was switched to one of the translation languages.

3.4.   Designer Studio

- The scaling of the **Exchange server connection test** window in the **HotMailBoxes** configuration has been improved so that the **Account** field is always visible regardless of the screen resolution.

- Fixed an issue with **Proxy** connection handling to Exchange Online – Microsoft Graph.

- Fixed a bug that prevented application import due to incompatible IDs of navigation menu items in the source and target environments.

- Fixed a bug that prevented the generation of process documentation if the process contained a **Choice list** that was previously configured as a **Choice field (Popup search window)**.

3.5. Actions

- Improved **Global automations** to save defaults for actions that do not require user configuration (e.g. **Send standard email**, **Finish editing a file using OneDrive**).

- Fixed a bug that prevented the **Add attachment to another workflow instance** action from being configured within **Global automation**.

3.6. Service

- Updated the barcode recognition component to a version that supports operation within Docker containers. Fixed the bug-handling mechanism in the barcode recognition component.

- Optimized the memory consumption of the Webcon WorkFlow Service when executing the **Teach OCR AI** action.
  Improved handling of low memory conditions during Webcon WorkFlow Service operation.

- Improved behavior of the WEBCON BPS Workflow Service in case of **HotMailBoxes** failure. After the change, attachment files saved as a result of such a malfunction are automatically deleted from the temporary files directory of the service.

WEBCON BPS 2025 R1

history of changes for version 2025.1.1.94

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1. Before upgrading WEBCON BPS

1.1. Important information

- To upgrade to **2025 R1**, you need to have active **Software Assurance** for perpetual licenses or an **active subscription license**. After the upgrade, you should update your license package to avoid system interruptions. To do this, make sure that your WEBCON BPS licenses have been updated – check the availability of **WEBCON BPS Server 2025** licenses in the license report available in **WEBCON BPS Designer Studio (system menu in the upper left corner of the application -> Licenses**. If necessary, download the updated licenses.

- If the changelog contains a section titled "Changes to existing features", please verify whether the changes will impact your implemented system in any way.

2. Bug fixes

2.1. General

- Fixed a bug that prevented WEBCON BPS version upgrades if the names of content/attachment databases contained special, non-Latin characters, e.g. ö, ä.

2.2. Portal

- Improved layout responsiveness of the **Recent activities** widget. After the change, the widget dynamically adjusts to fit the width of the column in the dashboard or the width of the home page. If the username does not fit in the space provided, it is displayed when the cursor hovers over the user's profile picture.

- Improved the display of **Table report** values when a form field that is not a **Data source column** is defined as a **Standard filter** for that report.

- Fixed the display of the **Total** row in the **Item list** so that it does not overlap other rows in the list when **Limited height of the control** is enabled.

2.3. Designer Studio

- Fixed an issue that caused deleted Microsoft Teams groups to be synchronized to the group list in the system.

- Fixed an issue with logging user synchronization in scenarios where a user was removed from Microsoft Entra ID.

2.4. Actions

- The bug with counting the number of pages remaining under the ABBYY FineReader license when performing the **Add a text layer** action has been fixed so that it does not interrupt document processing.

- Fixed an error in the execution of the **Teach OCR AI** action when the **Attachment selection mode** is specified using an SQL query.

2.5. Rules

- Fixed an issue in the configuration of the **Default value** of a form field that contained a **Business rule** with the **DATA SOURCE VALUE** function. The error occurred after cloning such a form field.

2.6. Service

- Optimized mechanism for reloading the configuration and restarting the WEBCON BPS WorkFlow Service for long-running operations of the task recalculation module.

WEBCON BPS 2025 R1

history of changes for version 2025.1.1.87

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1. Before upgrading WEBCON BPS

1.1. Important information

- **A bug has been discovered that prevents WEBCON BPS version upgrades if the names of content/attachment databases contain special characters outside the Latin alphabet, e.g. ö, ä.
  WEBCON is working on a solution for this issue.**

- To upgrade to **2025 R1**, you need to have active **Software Assurance** for perpetual licenses or an **active subscription license**. After the upgrade, you should update your license package to avoid system interruptions. To do this, make sure that your WEBCON BPS licenses have been updated – check the availability of **WEBCON BPS Server 2025** licenses in the license report available in **WEBCON BPS Designer Studio (system menu in the upper left corner of the application -> Licenses**. If necessary, download the updated licenses.

- If the changelog contains a section titled "Changes to existing features", please verify whether the changes will impact your implemented system in any way.

2. Security fixes

2.1. Updated components

- In the **WEBCONAPPS SaaS** environment, a mechanism has been introduced that forces the user to re-enter the password stored in the **Admin panel** after changing the SMTP server address.

- A mechanism has been added to the page containing a redirect to the login address for WEBCON BPS on a mobile device to connect only to trusted sites. For untrusted sites an appropriate message is displayed.

3. Information

3.1. General

- Updated the footer information in documents containing process documentation, personal data report, and the WEBCON BPS license usage report. This update applies to the PL, EN, and DE language versions.

4. Changes to existing features

4.1. General

- If **Content-Security-Policy** was added to the **Custom response header** list, **blob** support next to **img-src** will be added automatically. This is because OCR requires blob image loading to function correctly.

4.2. Portal

- Added the ability to configure private views in KPI reports for non-administrator users.

- Aligned task counter names across Portal. As a result, the **My** phrase has been replaced with **Active**.

4.3. Form

- Optimized form loading by skipping the query that retrieves tasks for a user's subordinates when unnecessary.

4.4. Designer Studio

- Modified how the **Data table** form field presents links. Previously, if the **Instance hyperlink** checkbox was selected for a column but the data source did not return a valid hyperlink, no value was displayed. Now, in such cases, the column shows the returned data as text.

5. Bug fixes

5.1. General

- Fixed an issue in the address redirecting the help manual (F1) in the configuration database.

- Fixed an error that occurred when transferring translations between the dashboard and a report during a version upgrade.

- Fixed a bug that prevented removing a newly created or cloned **Report view** if it had not been saved yet. The bug occurred in both WEBCON BPS Designer Studio and Portal.

5.2. Portal

- Improved layout responsiveness of the **Recent activities** widget. After the change, the widget dynamically adjusts to fit the width of the column in the dashboard or the width of the home page. If the username does not fit in the space provided, it is displayed when the cursor hovers over the user's profile picture.

- Corrected the message displayed when the **Instance numbers** in the **Dictionary process** are conflicting during application import.

- Improved filtering of column values in a report with the **SearchIndex** source if these values contained space and tab characters or 2 or more spaces next to each other.

- Fixed a bug where the application background was not retrieved and a user login window was displayed after opening a publicly shared instance.

- Fixed a bug that prevented filtering the values of a report based on **SQL data source** from being filtered by **Business entity**.

- Fixed a bug that prevented saving the report after adding a new **Calculated column**. The bug occurred when the column was used to specify the row coloring conditions prior to its saving.

- Fixed a bug that occurred when changing or adding a step, workflow, or form type in an existing report configuration. Such modifications resulted in the removal of all process columns from the report configuration.

- Fixed a bug where the **Absence chart** report excluded day-offs in the next calendar year, despite the applicable configuration.

- Fixed a bug where the dropdown list opened by clicking the **Add new filter** (**Searching structures** -> **Archive**) did not contain any selectable options.

- Fixed a bug that blocked the display of translations for name and description of the current workflow step. This issue occurred when the name or description was inserted into the form field using a context variable. The translation is now correctly retrieved based on the user's selected language in WEBCON BPS Portal.

- Fixed a bug in the **Searchindex** source report that prevented sorting of values in its columns.

- Fixed an error that occurred during application import. The error was caused by opening the node containing the system dashboard in the import wizard.

- Fixed a bug that prevented chart labels from displaying the defined translation for a given step.

- Fixed a bug that occurred when searching within a **SearchIndex** report containing the **Attachments** system column in an en-GB application. In such cases, users can now search for attachments in Portal by typing the text they contain.

- Fixed a bug that prevented dashboards with the **Application supervisor** widget from opening due to missing translations for the supervisor's name.

- Fixed the saving of header names in the **Quick paths** column in reports. The header name was not saved correctly if the report was added as a part of a dashboard.

- Fixed a bug that occurred after selecting the **No color** value for the **Border color** option in the data series style configuration of the line chart. The bug appeared when a user had previously set a value for the **Lightening / darkening** parameter. As a result of the fix, this parameter is no longer available after selecting the No color value.

- Fixed a bug that caused the sorting defined in the report's **Views** tab to be removed. The issue occurred after adding an additional filter at the report level and clicking the **Save view** button.

- Fixed a bug that caused the **Anomalies** report (the **Analysis** node) to display empty objects referring to already deleted or archived instances.

- Fixed a bug that occurred when users searched a report using a column hidden in the report's default view.

- Enhanced the mechanism used for searching icons in the **Navigation grid** widget and adjusted layout names in the widget configuration panel.

- Improved loading of a library for entering formatted text that is used, for example, in the **Multiple lines of text** form field in **Append mode**, in the **Comment** field, and in **Dashboard** widgets.

5.3. Form

- Fixed an error that prevented text from the clipboard from being pasted as an attachment on the form.

- Fixed a bug that caused OCR data to load when initiating a form, regardless of whether the form was displayed in the OCR verification view.

5.4. Designer Studio

- Fixed an error that occurred when rearranging form fields on the form template after disabling **Workflow phases**.

- Fixed a bug that caused form fields to double after importing an application. This occurred when the application was imported with a related process from a different application, and the process was exported without its original application.

- Fixed a bug that caused an incorrect error message to be displayed when testing an SQL query. This message contained redundant and incorrect information: **Object reference not set to an instance of an object**. The bug occurred only in WEBCON BPS installations where no low-privilege users were defined.

- Fixed a bug that occurred when selecting a node with an empty name in the selection tree which allows users to choose elements included in the application export process. Now, in such cases, the system automatically assigns the node a name corresponding to the type of element it refers to.

- Fixed a bug that prevented editing the **Business entity** in the previously saved configuration of the **Start** button. In addition, editing this button now results in an asterisk icon next to its name.

- Fixed an error that blocked application importing and returned the "KeyNotFoundException" error message. The error occurred when establishing differences between environments when one of the applications was not available on the target environment.

- Fixed a bug where step names in emails were not displayed in the recipient's language despite the corresponding configuration. The issue

occurred when the context variable referring to the workflow step name was used in the email title or content.

5.5. Actions

- Improved the handling of translations for variables used in the **Send custom email** action. Variables used in the message body were translated to the recipient's language, now variables in the title will also be translated.

- Fixed a bug that occurred when executing the **Generate/Update a Word file** action. The issue arose if the **Download after file generation** checkbox was selected in the action configuration window, and the action was initiated through the **Menu button**.

- Improved creation of the **Unicode content and attachment databases** from the Installer. During the version upgrade, the corresponding columns of the content/attachment database are now automatically updated. This allowed to optimize the **OCR AI recognition** action so that the recognition of logos and non-Latin characters on invoices no longer generates errors.

  NOTE: if the size of the **ATF_FRData** column of the attachment database exceeds 3 GB, automatic database update is not possible. In this case, the Installer will display a message informing the user that a manual update is required, with instructions on how to proceed. For more information, see the article: https://community.webcon.com/posts/post/manual-database-update-prerequisites-and-procedure/515/3.

- Fixed an error of the **Invoke REST Web service** action. If multiple sub-collections were added as part of a single collection in the value mapping, only the last one was sent to the service.

- Fixed a bug that allowed the **Invoke SOAP Web service** action configuration to be saved with an incorrect **WSDL address**.

- Fixed an error that prevented correct execution of an action (e.g. **Replace item list**) created on the basis of an action of another type with configured filtering of **Data source** values based on a **Business rule**.

- Fixed the formatting of new-line characters in the **Multiple lines of text** field when it is included in e-mail messages.

- Fixed an issue that prevented the opening of action configurations within a **For each** operator. This error occurred when the operator's collection was an **Item list** that contained overlapping IDs for the list itself and one of its columns.

5.6. Rules

- Fixed an error where the value of the **Rating scale** form field in rules was treated as a text value rather than a numeric value. After the change, the form field values can be used to create valid arithmetic operations. Improved handling of the **Single line of text** global field values in **Form rules**.

- Fixed a bug in the rule editor where testing a rule containing the **DATA SOURCE VALUE** function caused an exception. The issue occurred after pasting the function into the rule editor and pressing the **Test** button.

- Fixed a bug where an incorrect value was entered after selecting the **Mark as required** or **Mark as not required** function for the **Item list**. The bug occurred in the form rule editor operating in the **JavaScript mode**. Currently, an Item list ID number is entered as a parameter of a function inserted into a form rule.

- Improved the handling of **Business rules** in the configuration of **REST Web Service** data sources. The {PickerVal} and {PickerCol} variables will now return correct values when used in parametrized Business rules in data source configuration.

5.7. Add-In

- Fixed an issue with adding tables (**Item list**, **Data table**) to documents via the **Word Modern** add-in.

- Fixed a bug that prevented users from logging in to Portal using the **Word Classic** and **Word Modern** add-ins. The issue occurred for a **Single-Use Access** license used in the **WEBCONAPPS-SaaS** environment.

5.8. Service

- Improved calculation of the next execution of the **Timer** action in case of a validation error on its previous execution.

5.9. API & SDK

- Fixed an issue in an endpoint of the public API: /api/data/{ver}/db/{dbId}/workflows/{wfIdguid}/associatedFormTypes/{idg uid}/admin/privileges
The business entity will be correctly taken into account when assigning privileges to the form type.

WEBCON BPS 2025 R1

history of changes for version 2025.1.1.44

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1. Before upgrading WEBCON BPS

1.1. Important information

- To upgrade to **2025 R1**, you need to have active **Software Assurance** for perpetual licenses or an **active subscription license**. After the upgrade, you should update your license package to avoid system interruptions. To do this, make sure that your WEBCON BPS licenses have been updated – check the availability of **WEBCON BPS Server 2025** licenses in the license report available in **WEBCON BPS Designer Studio (system menu in the upper left corner of the application -> Licenses**. If necessary, download the updated licenses.

- If the changelog contains a section titled "Changes to existing features", please verify whether the changes will impact your implemented system in any way.

2. Security fixes

2.1. Updated components

- The DotNetZip component has been replaced with System.IO.Compression in version 4.0.0 due to the vulnerability patches:
  - CVE-2024-48510, CWE-22
    https://security.snyk.io/vuln/SNYK-DOTNET-DOTNETZIP-8376680.

3. Information

3.1. Important information

- Changes introduced in this version will break the compatibility of the Export-Import mechanism. Exported process packages created in versions **2025.1.1.23** and older cannot be imported to the newest system version. In order for an import to be possible, update the environment to the newest version and export the processes again.

3.2. Updated components

- Updated the **SOLR Search Server** component to version **9.6**.
  The Installer will verify that **Java 11** or newer is installed.

4. Changes to existing features

4.1. General

- When updating to Solr 9, if the option to skip the export of user activities was chosen, the installer will not attempt to export the user activities during future updates. Skipping the export is noted in the AdminDBScriptInfos table.

- Due to a change in nomenclature by Microsoft, any use of the **Azure Active Directory (AAD)** name in the system has been replaced with the current name: **Microsoft Entra ID**.

- Logs of cyclical actions older than one year will be removed from the **AutomationSessionExecutions** table. Additionally, deleting logs from the AdminServiceLogs and WFRecurrentActionsExecutions tables has been optimized.

4.2. Portal

- Made minor adjustments to the appearance of the **Description panel** and **Navigation grid**. The modifications included, among other things, adding the widget name to the upper part of its side configuration panel, improving the image scaling mechanism within columns, and reducing the gap between the text column and the image.

- Added an expiry date check for the **Working on behalf of substituted person with full access** substitution. If the expiry date has passed, the **Substitute** is prompted that they do not have the privileges to perform operations for the **Replaced person**.

4.3. Form

- Added the ability to capitalize all file extensions added in the **Attachments** section of the workflow instance. In the case of MS Excel files, documents with .XLSX extension will be correctly imported, e.g., into the **Item list**.

4.4. Designer Studio

- In the **System fields** -> **Connected business entities** node of the **Variables editor**, a **REGON** variable (**{COM_REGON}**, Polish State Statistical Number) has

been added to be used when creating **Business rules**.
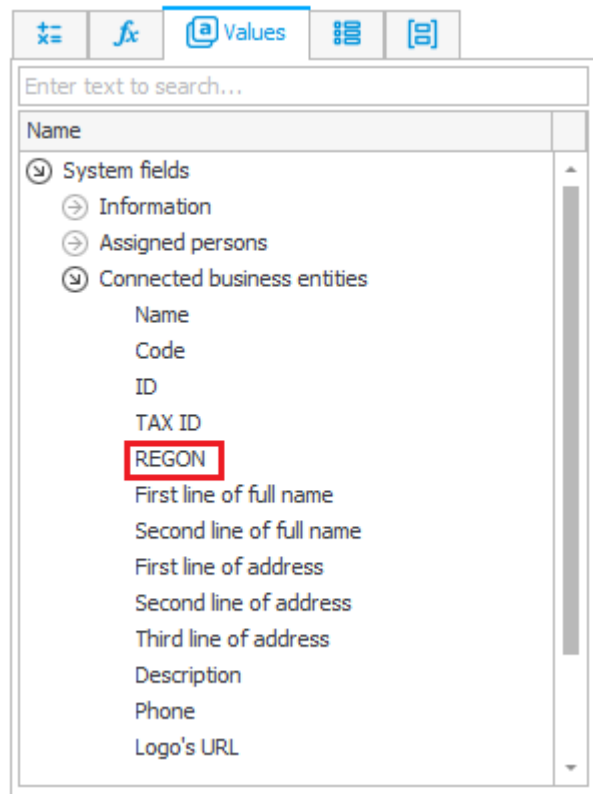
- Changed the system behavior when no license is available for a newly created **BPS user** profile. In this scenario, the system now registers the exception, records it in the database, and displays an appropriate message in the Designer Studio tool.

- Added an option to the **Import wizard** to select whether to overwrite the application page (**System dashboard**).

- Changed the way in which the **Single-Use Access License** is checked and used when a subworkflow is initiated by the parent workflow started by an external user. In such cases, two Single-Use Access licenses will be used: the first one as a result of initiating the parent workflow, and the second one due to the initiation of the subworkflow. Previously, the initiation of the subworkflow was interrupted by a message indicating that no license was assigned.

4.5. Designer Desk

- A preloader icon animation has been added, which is displayed when a prototype is published to WEBCON BPS Designer Studio, indicating that this operation is in progress.

5. New features

5.1. New authentication type – SDK

A new authentication type, **SDK**, has been added in the configuration of **REST Web Service**, **MSSQL database,** and **Oracle database** connections. After selecting it, authentication to a given server can be performed with the previously configured SDK plugin.
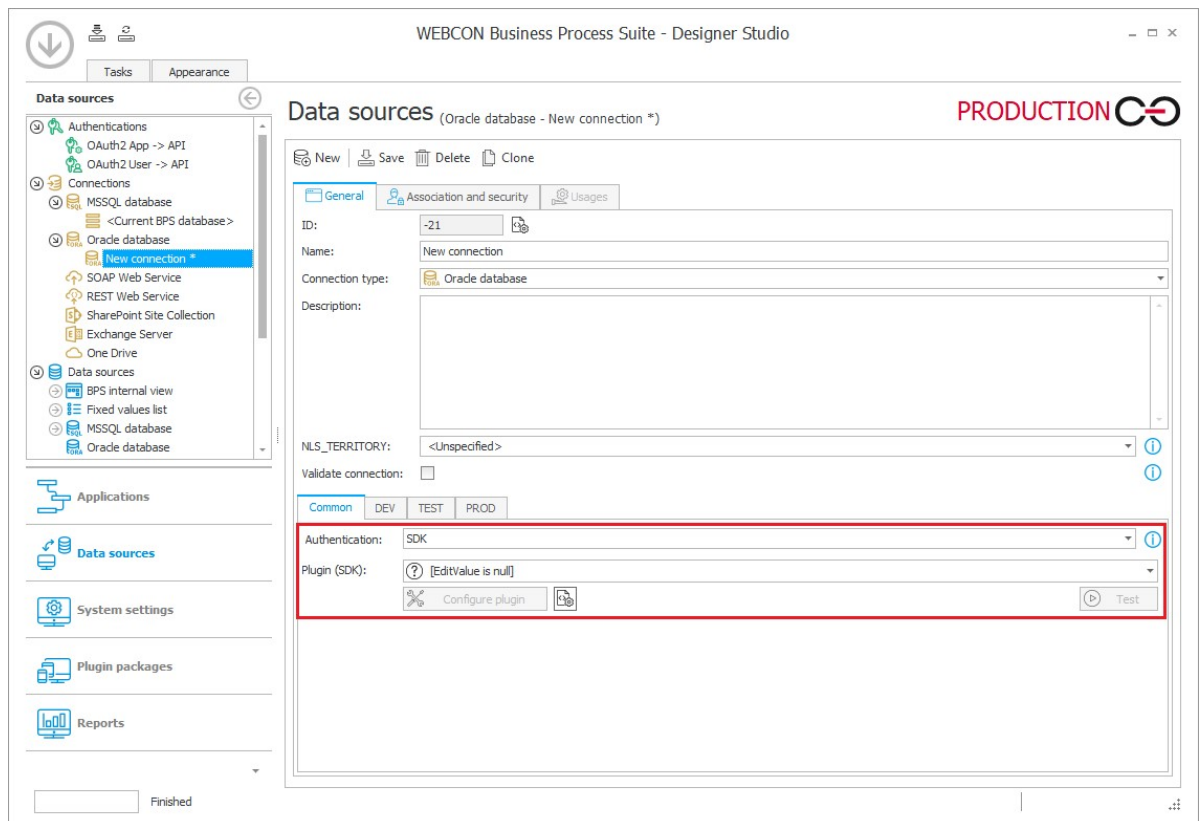
This solution will allow users to set custom authentication parameters for the **REST Web Service** data sources and **Invoke REST Web Service** actions used in the system, and also to define connection strings for **MSSQL database** and **Oracle database** data sources and connections, accordingly.

Moreover, due to the above update of **Oracle database** connections, the corresponding http methods: GET, POST, and PATCH have been changed in API beta.

```
"oracle": {
    "common": {
        "serviceName": "string",
        "connectionType": "SqlLogin",
        "user": "string",
        "password": "string"
    },
```

5.2. Portal

- Added a tooltip that displays the full name of the report embedded in the **Dashboard**. The tooltip appears when hovering over the shortened report name within the widget.

5.3. Form

- Added a tooltip that displays the full name of the path in the **History**. The tooltip appears when hovering over a path button with a shortened path name.

5.4. Service

- A WEBCON BPS Workflow Service telemetry metric, **webcon-workflow-ocr-finereader-licence-remaining-pages**, has been added to count pages that can be subjected to optical character recognition (OCR) under a valid ABBYY FineReader license.

5.5. Designer Desk

- Added the new option **Encode dangerous HTML tags** which allows users to specify whether dangerous HTML tags, i.e. the ones that allow for initiating a JavaScript code, are to be deleted or are permitted. The new option is available and selected by default for the form fields **Data row** and **Data table** whose **Advanced configuration** now includes respective column with checkboxes. Additionally, the option is available for the **Item list** columns **Data row** and **Calculated text value** in the form of respective checkbox in their Advanced configuration which selected by default.

  NOTE: after updating the existing installations to the newest version, the Encode dangerous HTML tags option is by default selected for all columns of the Data row and Data table form fields. For the Item list columns Data row and Calculated text values, the respective checkbox remains unchecked after updating the installation to the newest version.

6. Bug fixes

6.1. General

- Fixed an issue in the mechanism that waits for form operations to finish. The mechanism is supposed to ensure that operations executed on the form in the background (e.g. setting fields with rules) are executed correctly. The error caused the mechanism to not work correctly if the fields were set to an invalid value (e.g. a target choice field was set to an empty value) and would prevent path transition in such cases.

- Improved parameter validation during WEBCON BPS installation using **Service Principal** authentication (Microsoft Entra ID) to SQL Server.

6.2. Portal

- Fixed an error that occurred when importing dictionary items if two form fields had the same name.

- Fixed an error in the document template report that occurred when the system column, **Attachment name**, was deleted, preventing further editing of the report.

- Improved responsiveness of the **Recent activities** widget. The widget now dynamically resizes to fit the width of the dashboard column or the home page.

- Fixed a bug where the filtering configuration was not cleared after switching the **Absence chart** view.

- Fixed an error that prevented exporting an application if one of its elements was a **Table** report for which **Quick paths** were configured. The error was caused by the presence of an invalid tag retrieving the path ID in the Quick paths configuration.

- Improved mouse scrolling on the **Absence chart** page. Scrolling speed is now the same across the entire page.

- Fixed a bug that prevented going to the workflow instance preview via a link when the database context was missing, such as when searching for an instance on the Portal home page.

- Improved sorting of **My tasks** by **Days in step**.

- Fixed a bug that prevented editing a report view with misconfigured row coloring. The error was also present in WEBCON BPS Designer Studio.

- Fixed a bug where a workflow instance could still be edited and modified after it was deleted and would still appear in search results.

- Fixed a bug that caused the running address to be removed from the Portal URL in **Service mode**.

- Fixed an issue where cancelling the creation of a new **Data source** for a report embedded in the **Dashboard** did not result in its deletion.

- Improved the display of the **Navigation button** and the **Navigation menu**. After the change, these options are displayed alternately depending on the set browser's window width. The position of the active Navigation button is adjusted so that changing the window width does not reduce its visibility.

- Fixed an error when switching between report **Views** if the same numeric column was used in their configuration. The error occurred if the coloring for that column was set to **Color scale** mode in one View and the column was hidden in the other View.

- Improved the display of the application name and color on the **History** banner when the History is accessed from the workflow instance in the **My tasks** section, rather than in the context of that application.

- Fixed a bug that prevented the new **Absence chart** view from being set as the default.

- Improved editing of translations in the text fields of the **Description panel**, **Navigation grid**, and **Start** widgets.

- Fixed a bug in the **Absence chart** if its configuration used a data source based on the **Vacations history** or **Days off** template where dates were expressed as decimal values.

- Improved the display of the **My tasks** number badge in the **Navigation menu**. After the change, this badge is vertically aligned with the arrows of the sections below.

6.3. Form

- Fixed an issue that caused only one of many selected attachments to be added to a workflow instance. The error occurred if the workflow instance already had an attachment with the same name as one of the files to be added.

- Fixed the behavior of panels with many tabs on the form. An error caused the tabs to switch into dropdown mode unnecessarily, even when there was adequate space on the form.

- Fixed an error that caused the checkout of an instance in the parent workflow to be forcefully removed. The error occurred when going through a path in a subworkflow.

- Fixed an issue in the **Calculated floating-point value** column that caused the formula to divide by zero. The mechanism for detecting such operations has been improved.

- Limited the number of exceptions logged from Aspose to only those related to fonts. The error caused an excessive number of entries in the Event Viewer originating from Aspose (related to e.g. generating attachments or attachment preview).

- Improved the display of the "i" icon with the form field description so that it does not extend beyond the configured **Field group** or **Tab** area for long form field names.

- Improved the display of the default font name in the **Multiple lines of text** form field editor.

- Improved cache loading of TinyMCE plugins. This fixed a bug in the **Multiple lines of text** form field that prevented it from being edited (and adding images to it).

6.4. Designer Studio

- The error message that appears when a task is not assigned to a person has been enhanced to include **the name and ID of the path** for which the error occurred.

- Added info about the **BPS_ID** to logs concerning the user's profile picture synchronization.

- Fixed a bug that prevented **BPS user list synchronization with Microsoft Entra ID** (previously Azure Active Directory) from being configured if the extension attributes in the **Columns mapping** column had an underscore "_" in their name.

- Fixed a bug where after removing the **Dashboard** from WEBCON BPS Designer Studio, translations of its text fields were still available in the system, preventing the export of the entire application.

- Deleted an erroneous message that appeared when saving the **REST Web Service connection** configuration if different **Authentication types** were specified for different environments (**DEV/TEST/PROD/Common**).

- Fixed a bug where a **Business rule** created in the configuration of the **Waiting for sub-workflows** step in the **Parent workflow** replaced tag values from the context of the current **Subworkflow** instance.

6.5. Actions

- Fixed a bug that prevented changing the **Priority** in the **Teach OCR AI** action configuration in WEBCON BPS Designer Studio.

- Fixed a bug in the **Invoke SOAP Web service** action that returned the phrase "System.Byte[]" instead of Base64 format values when mapping values returned by the Web service to **Item list** columns. The values mapped from the form fields to the **byte[]** request field as a result of the action are now also in Base64 format.

6.6. Rules

- Fixed an error caused by using **SQL COMMAND** and **DATA SOURCE VALUE** functions when configuring the visibility of form fields. The error occurred when attempting to send an email whose body contained variables that referenced these fields.

6.7. Data sources

- Fixed a bug that occurred when trying to remove a non-existent association of a **Connection** with an application.

- Improved filtering of **Data source** values based on a condition, so that the configuration of the Data source itself (e.g., limiting the value to a selected process) is also taken into account.

6.8. Add-In

- Fixed an issue with adding tables (**Item list**, **Data table**) to documents via the **Word Modern** add-in.

- The **Word Modern** add-in's behavior when switching content databases has been fixed. Form values will be loaded after selecting the database and pressing **Search**.

6.9. Mobile app

- Improved the display of the navigation menu in the mobile application. By default, this menu is hidden so that it does not interfere with the application elements.

6.10. Service

- Fixed a bug where the phrases "%BodyContent%" and "%Content%" were placed in the body of the e-mail together with the form field values corresponding to these parameters in the **HotMailBox** configuration.

- A protective measure was added to ensure that the WebCon WorkFlow Service is not stopped when attempting to read a barcode from a PDF document containing pages with invalid sizes.

- Optimized logging of the WebCon WorkFlow Service. If the logged operation was carried out in a context that was not the database (e.g. PowerShell actions), the levels of service logging were not considered (e.g. „info" was mixed with „importantinfo").

- Optimized sending of PUSH notifications for task counter updates to iOS mobile devices.

- Optimized the number of entries added to the SOLR indexing queue for a workflow instance when executing the **Add privileges** and **Remove privileges** actions.

6.11. Designer Desk

- In the publicly available **Designer Desk** version, the option to generate documentation in MS Word has been disabled.

6.12. API & SDK

- Fixed an issue with the API endpoint, **/api/data/{ver}/admin/groups**.
  It will no longer require additional permissions for the API account. Each of the required scopes will suffice to load all groups.

WEBCON BPS 2025 R1
history of changes for version 2025.1.1.23

Table of Contents

1. Before upgrading WEBCON BPS

1.1. Important information

- To upgrade to **2025 R1**, you need to have active **Software Assurance** for perpetual licenses or an **active subscription license**. After the upgrade, you should update your license package to avoid system interruptions. To do this, make sure that your WEBCON BPS licenses have been updated – check the availability of **WEBCON BPS Server 2025** licenses in the license report available in **WEBCON BPS Designer Studio (system menu in the upper left corner of the application -> Licenses**. If necessary, download the updated licenses.

- If the changelog contains a section titled "Changes to existing features", please verify whether the changes will impact your implemented system in any way.

- Changes introduced in this version will break the compatibility of the Export-Import mechanism. Exported process packages created in versions **2024 R1** and older cannot be imported to the newest system version. In order for an import to be possible, upgrade the environment to the newest version and export the processes again.

- Changed the way of defining and the range of variables that can be set for **Color themes** in Portal. In connection with this change, all custom color themes have been disabled and using them requires their reconfiguration. The predefined **WEBCON White** color theme has been removed.
  If users utilize the removed or disabled color theme, the default theme in which Portal will be displayed after the upgrade will be **WEBCON Light**.

- Starting with version 2024 R1, the required component to be installed on the server running SOLR is **Java 11** or later (the recommended distribution is OpenJDK). This component will be installed as part of a standard system update in the C:\Program Files\Java\jdk-22.0.1 folder.

  It is permissible to install the Java component independently, outside the standard WEBCON BPS installation. In this case, it is necessary to set the environment variable **JAVA_HOME** with the path to the directory where the Java component is installed.

- Due to the discontinuation of the **Sign an attachment with CoSign** action, it is necessary to remove all existing uses of this action before upgrading the system. The installer will not allow an upgrade if the system has this action configured.

2. Security fixes

2.1. Updated components

- The following components have been been updated:
  - System.IdentityModel.Tokens.Jwt to version 6.35.0,
  - Microsoft.Identity.Client to version 4.61.3,

  due to vulnerability patches:
  - CWE-362

    https://security.snyk.io/vuln/SNYK-DOTNET-AZUREIDENTITY-7246762

    https://security.snyk.io/vuln/SNYK-DOTNET-MICROSOFTIDENTITYCLIENT-7246763.

- The tinymce component has been updated to version 6.8.4 due to the vulnerability patches:
  - CVE-2024-38356

    https://github.com/advisories/GHSA-9hcv-j9pv-qmph
  - CVE-2024-38357,CWE-79

    https://security.snyk.io/vuln/SNYK-PHP-TINYMCETINYMCE-7278051.

- The System.Security.Cryptography.Pkcs component has been updated to version 7.0.3 due to the vulnerability patches:
  - CVE-2024-38095, CWE-20

    https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMFORMATSASN1-7443633.

- The System.Text.Json component has been updated to version 8.0.4 due to the vulnerability patches:
  - CVE-2024-30105, CWE-400

    https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMTEXTJSON-7433719.

- The fast-xml-parser component has been updated to version 4.4.1 due to the vulnerability patches:
  - CVE-2024-41818, CWE-1333

    https://security.snyk.io/vuln/SNYK-JS-FASTXMLPARSER-7573289.

- The MimeKit component has been updated to version 4.7.1 due to the vulnerability patches:
  - CVE-2024-29857

    https://www.cve.org/CVERecord?id=CVE-2024-29857
  - CWE-770

    https://cwe.mitre.org/data/definitions/770.html.

- The following components have been updated:
  - Azure.Identity to version 1.11.4,
  - Microsoft.Identity.Client to version 4.61.3,

  due to the vulnerability patches:
  - CVE-2024-35255

https://www.cve.org/CVERecord?id=CVE-2024-35255
- CWE-362
https://cwe.mitre.org/data/definitions/362.html.

- The micromatch component has been updated to version 4.0.8 due to the vulnerability patches:
  - CVE-2024-4067, CWE-1333
  https://security.snyk.io/vuln/SNYK-JS-MICROMATCH-6838728.

- The react-native component has been updated to version 0.75.3 due to the vulnerability patches:
  - CVE-2024-4067, CWE-1333
  https://security.snyk.io/vuln/SNYK-JS-MICROMATCH-6838728.

- The dompurify component has been updated to version 3.1.6 due to the vulnerability patches:
  - CVE-2024-45801, CWE-1321
  https://security.snyk.io/vuln/SNYK-JS-DOMPURIFY-7984421.

- The path-to-regexp component has been updated to version 6.3.0 due to the vulnerability patches:
  - CVE-2024-45801, CWE-1321
  https://security.snyk.io/vuln/SNYK-JS-PATHTOREGEXP-7925106.

- The System.Text.Json component has been updated to version 8.0.5 due to the vulnerability patches:
  - CVE-2024-43485, CWE-407
  https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMTEXTJSON-8168848.

- The System.Runtime.Caching component has been updated to version 8.0.1 due to the vulnerability patches:
  - CVE-2024-43483, CWE-407
  https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMRUNTIMECACHING-8168846.

3. Information

3.1. Portal

- The introduction of a new graphical user interface entails modifying the HTML structure of the Portal pages and adjusting the CSS that these pages employ. This is particularly relevant when using the **Global CSS styles** functionality, which may not function as intended following the system upgrade, potentially impacting the Portal's visual appearance. Altering the HTML structure may also influence the operation of the **HTML code** widget on the application dashboards and the **HTML form field**, if system CSS styles were incorporated into these controls.

- Optimized memory consumption of WEBCON BPS Portal.

- Improved the data retrieval mechanism for reports. Now, SQL queries are limited to columns visible to the user in the report view, as well as system columns essential for proper functionality, instead of fetching all columns defined in the report's data source.
  Note: Reports with coloring configurations are the exception — in these cases, all columns will still be retrieved to enable accurate coloring based on complete data.

- Introduced a series of efficiency improvements when loading the main Portal and application pages. Improved how data about user privileges is verified and sent.

3.2. General

- To run Designer Studio remotely (launched on a local machine from the User menu in Portal), a symmetrical connection with a transfer of at least 100Mb/s is recommended.

- Optimized he basic roles of the service, user synchronization, and Mail Approval. The changes that were implemented include:
  - the timeout for loading an individual piece of data during user synchronization has been set to 15 minutes (with no option to change it),
  - the mechanism for calculating AI analysis is limited to 3000 instances and 3 million historical versions,
  - the handling of signed emails containing attachments with no extension (but having a correct mime-contenttype based on which it can be defined) has been improved.

3.3. Add-In

- As per the "Platform compatibility roadmap", the **Outlook Classic** add-in will only work on the 64-bit version of Outlook.

3.4. API & SDK

- **API v4.0** has been removed, while version **5.0** has been marked as deprecated. The **api/login** endpoint used for authentication has been removed and replaced

with the **/api/oauth2/token** endpoint. Therefore, if a REST Web Service connection is configured in Designer Studio and WEBCON BPS is specified as the authentication type, the connection will be automatically updated to **Application (oAuth)**. Additionally:

   - if the connection to WEBCON BPS versions 2022 and higher is established by an application (Connect as -> Application), no further action is required,

  - if the connection to older versions of WEBCON BPS is established by an application, the settings must be changed to **Connect as -> Application (obsolete)**,

   - if the connection to WEBCON BPS 2025 is established by a user (Connect as -> User), it is necessary to reconfigure the connection to use the **oAuth2 User -> API** authentication type, or connect as **Application (oAuth)**.

4. Changes to existing features

4.1. Important information

- The **Users and groups synchronization** mechanism has been changed significantly. The change overhauls the handling of accounts loaded from external sources that do not have mandatory attributes required by the synchronization mechanism (the attributes considered mandatory are listed at the bottom).

  Handling user accounts with missing mandatory attributes.
  Until now, accounts that were missing attributes were synchronized anyway and marked for later correction. After a period of time defined by the HoursToKeepFaultySyncObjects global parameter, if the missing info was not added, the user was automatically deleted during the next incremental synchronization.
  From now on, only users with all mandatory attributes will be synchronized to the database. New accounts with missing data will not be synchronized. Accounts that lose mandatory attributes will be deleted from the database during synchronization.

  Deleting user accounts as a result of OU connection error during incremental synchronization with the AD.
  Until now, when running an incremental synchronization, if the system failed to read data from the defined OU, its users that were already synchronized would remain unchanged.
  From now on, a failed connection to the OU will result in its users being removed. The users from the OU will be treated as if they no longer exist (not found in the synchronization source), and will therefore be removed from the database.

  Note: This change may affect the integrity of the user synchronization structure.
  Therefore, it is recommended to use the **Interrupt synchronization on any Active Directory error** option in Designer Studio (*System settings -> Global parameters -> Users and groups synchronization -> Configuration -> Advanced*). With this configuration, an OU connection error will cause the synchronization to fail, and the user structure will remain the same as before the synchronization.

  List of mandatory attributes.
  If any of the following attributes are missing during the synchronization, the affected object (user or group) will be skipped during synchronization. Such an object will not be found in the BPS users list or will be deleted from it.
  AAD:
  - UPN (UPN may not contain # characters)
 - Azure ID

  AD:
  - distinguishedname

- samaccountname
- objectclass
- UserPrincipalName (for users)
- useraccountcontrol (for users)
- samaccounttype
- objectsid (for groups)

LDAP:
- objectclass
- useruniqueidentifier (for users)
- groupuniqueidentifier (for groups)

4.2. Changes to the Workflow designer

A web-based version of the **Workflow designer**, previously known from WEBCON BPS Designer Desk and Portal, has been introduced in WEBCON BPS Designer Studio. As part of this update, a number of changes have been made to the workflow design tools.
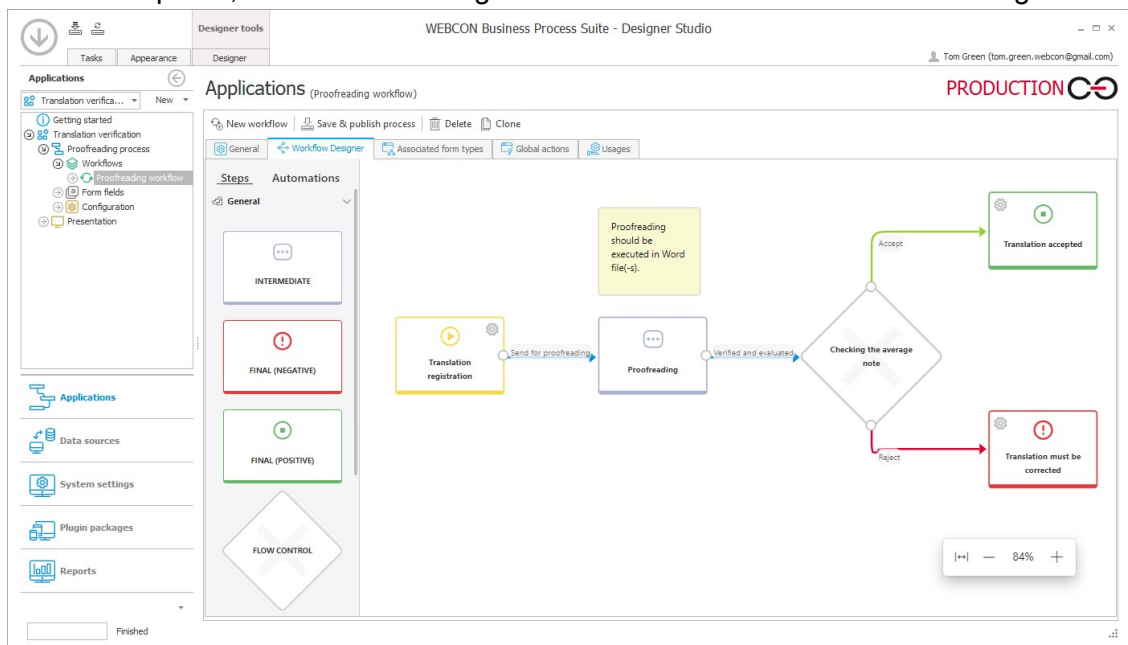

Steps and Automations

Each newly created workflow is automatically configured with one start step and one positive final step connected by a path. Users have the option to extend the workflow by adding **General** steps, as well as the steps associated with **OCR and scanning** operations available from the menu on the left. Note that adding workflow steps is now <u>only</u> possible from the Workflow designer. The new **Automations** tab allows users to add process and global automations by dragging and dropping them onto the step entry/exit and the path.

Path/Step context menu and Designer tools

The **Show analysis** option has been added to the context menu of steps, replacing the **Analysis** parameter previously available in **Designer tools**. When the **Hide on diagram** option is used in the context of a step or path, the selected workflow design element is highlighted in grey and, for steps, *[HIDDEN]* appears next to the step name.

At the same time, the Designer tools have been restricted to the **Diagram management** tab, where the **Save preview** and **Grid** options are available.
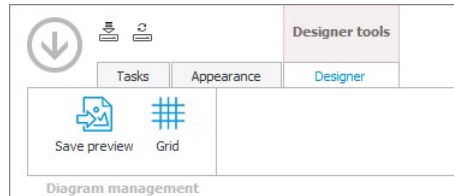
Notes

All notes added in Designer Studio are now visible in the **Workflow designer** in Portal, where it is also possible to edit their content, move them freely, and resize them in the diagram. All notes added will be visible in the generated documentation.

Notes can now also be created and edited in WEBCON BPS Designer Desk.

Buttons for resizing the workflow preview

The menu for zooming in and out of the Workflow designer has also been changed. The diagram size is now given as a percentage, and there is also a **Fit to screen** button which, when pressed, automatically adjusts the diagram size to the current window size. The appearance of this menu has been standardized in all places where the workflow preview is available: in the **Workflow designer** in Designer Desk and Portal, in the **Workflow heatmap** report, and in the workflow preview on the form. In addition, the zoom status and position in the preview are remembered and saved in the browser.

4.1. Timers replace Timeouts and related functional changes

The latest system release introduces numerous changes and improvements to the operation of **Timers** (formerly known as **Timeouts**). Among other things, it is now possible to configure timers for **immediate** initial activation and subsequent activations at a specified **Interval**, as well as to remove activated timers from related workflow instances. These changes have been made by extending and customizing the **Timer details** configuration window.

As part of the functionality, the configuration associated with the handling of validation/execution errors of timer-related actions has also been enhanced by introducing two additional parameters: **Acceptable number of consecutive errors** and **Number of minutes to retry after error**.

Additionally, a **Test** button has been added to allow users to check the planned execution dates of their configured timer via an additional **Planned timer executions** window. The view contains a maximum of 10 scheduled timer executions.

### 4.2. Configuration of the Widget form field in the Process design tool

Expanded the configuration options for the **Widget** form field within the Portal's **Process design** tool. As a result, after navigating to the **Advanced settings** of the form field and opening the **Configuration** tab, users can now configure most options that were previously available only in Designer Studio. Consequently, users can modify various settings, including widget type and color, define the visibility and location of the form field name, as well as enable color scale.

4.3. Changed author of related workflows (MailApproval)

The information recorded in the instance **History** when a path transition has occurred via the **MailApproval** functionality has been changed. The full information in this case will now read "path transition – mail approval".

Additionally, if such a path transition using the MailApproval command triggers a subworkflow as a result of executing an action configured on the path, the user who went through the path will be shown as the author of such a change in the related workflow's History. Previously this was always the **WebCon Workflow Service**. The information "path transition – other workflow" will also be displayed there.

The change relates to starting/modifying related workflows using the actions: **Start a subworkflow**, **Start a subworkflow (SQL)**, **Move workflow (SQL), Update related workflow instance**, and **Add attachment to another workflow instance**.
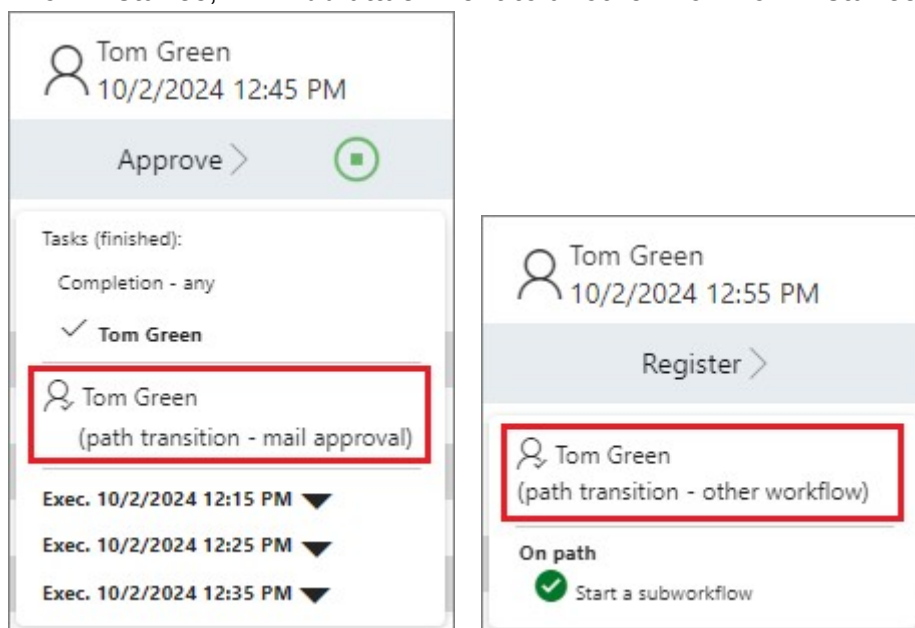
4.4. Changes within the Verify attachment's signature action

Modified the names of some parameters in the configuration window of the **Verify attachment's signature** action to better reflect their function. Additionaly, refined the description in the hint (the "i" button) for the **Regular expression** option.

4.5. Portal

- Updated and unified how suggested elements are selected to be displayed on the main application page. The **Suggested dashboards and reports** section will only display tiles for views, not entire reports. In situations where the user has not used the report (not enough activity data to make a view suggestion), the default view will be suggested.

- When running WEBCON BPS Portal via the CMD console, the returned logs will now contain a date and time stamp at the beginning of each line.

- Introduced the ability to integrate logs and logging tools with OpenTelemetry in WEBCON BPS Portal.

- Changed the approach to the type of response returned when entering Portal operating in the maintenance mode. Currently, in such cases, the 503 code is returned for all the endpoints whose address begins with the "/api/" prefix. For other endpoints, the page informing about active maintenance mode is displayed.

- Added a warning to the **Event Viewer** tool that appears when attempting to view a file with unavailable fonts in Portal.

4.6. General

- Changed the handling of prohibited special characters in addresses used in OData endpoints. Currently, those characters are replaced with an underscore (_).

- Changed the default compatibility level for new SQL databases created during the installation of the WEBCON BPS platform. As a result, the previous compatibility level set to 120 (SQL Server 2014) has been replaced with the highest possible level, which, however, cannot exceed 160 (SQL Server 2022). This modification does not affect existing databases, which will retain their compatibility level of 120.

- The **Abbreviation** option has been removed from the application configuration window in Designer Studio. This parameter is no longer available in the system or displayed on the application page, reports or dashboards.
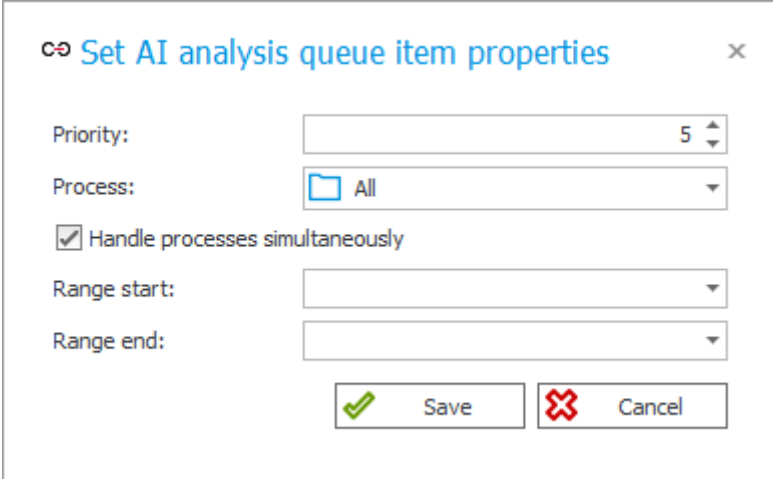
4.7. Form

- Changed the naming convention for image files when pasting them into the **Attachments** section. If a file that already exists in the system is pasted within this section, its system name is preserved. However, when a user pastes a screenshot, the file name is defined by the currently opened internet browser. Additionally, if a user attaches a file with a name that has already been added to the section, a sequence number in parentheses is added to its name.

- Changed the approach to retrieving data in **Choice field** operating in the **Dropdown** mode and the **Choice tree** form field. Now, in both cases, data is not retrieved when the form is not displayed in the edit mode. Furthermore, data is not retrieved if the form operates in the edit mode but the form fields are configured as **Read-only** in the **Field matrix**, and, additionally, for Dropdown mode, if the value has already been filled out.

- Changed the approach to recalculating values in the **Item list** form field. Currently, recalculation is not performed when values are changed in the cells of a column that has been configured as invisible in the **Field matrix**.

- Changed the moment when the **Update item list values** action sets the value of target fields dependent on **Choice columns**. Currently, after setting the value in a

Choice column, this value is immediately copied into the target field and then potentially replaced by the action.

- Changed the behavior of the **Choice field** when operating in **Autocomplete** mode. Now, after expanding the dropdown associated with the form field, the focus is automatically set to the input.

- Changed the form behavior for path transition when a picker field operating in read-only mode is initiated with a default value from outside the field's data source. Currently, in such situations, a message is displayed informing about the incorrect value provided in the picker configuration, and the path transition is not possible. Previously, the system permitted the path transition despite the incorrect value entered in the picker field.

4.8. Designer Studio

- In the **AI Analysis** report configuration, the meaning of an empty value in the **Range start** parameter was changed.

Until now, an empty **Range start** was treated as the current date minus one year.

After this change, an empty **Range start** will be treated as the creation date of the process.
An empty **Range end** will still be treated as the current date.

- Changed the approach to the presentation of numerical values after pressing the **Test** button that verifies whether an SQL query is correct. Currently, the numerical data is displayed with all trailing zero digits of a given number (previously, those zero digits were omitted).

- If an error occurs when parsing **Form rules**, the error log available in **Administration tools** will contain the name and ID of the form rule that failed.

4.9. Actions

- In the **Generate/Update a Word file** action, if the output file has a configured dynamically-set category, but the process does not have an attachment category

source defined, the category of the attachment will be saved in the database anyway – in ID#Name format. Previously, if no defined categories existed, the attachment was saved with an empty category.

- Modified the behavior of the actions **Add a barcode** and **Print a barcode label** with respect to the 1D codes. Currently, when the number of instances in the system approaches 10 million, the **Event Viewer** tool and the instance **History** display a warning about reaching the limit for generating 1D codes and indicate the need to switch to 2D codes. If the limit is exceeded, the execution of these actions will result in an error. It is then necessary to select the **2D** option in the configuration to go through the path if the **Linear (1D)** option is selected. Alternatively, if both **Linear (1D) and 2D** option is selected, the action will be stopped, but the path transition will still be possible.

- Removed the option for users to deactivate action execution logging. Consequently, the **Log execution** checkbox has been removed from the action **Properties** window. Additionally, the **ACT_LogExecution** column has been removed from the content database table.

- Changed the behavior of the **Add attachment** action. Now, the action allows path transition even when the action does not return the attachment.

4.10. Data sources

- Changed the default setting for a newly created **Users and groups** data source. Now, the checkbox **Data source type: person or group** is selected by default immediately after creating the source.

4.11. Service

- Increased processing performance for each queue and module of the WebCon Workflow Service.

- Changed the message content in the event log that appears when an unsupported Abbyy FineReader version is detected. Currently, the system displays the version of the software the user is utilizing and the version supported by WEBCON BPS.

- The rules for sending email notifications in **Deployment mode** have changed. If a notification is sent in multiple languages, each recipient of such a notification will receive it in all language versions.

4.12. API & SDK

- The **resolveFieldValue** and **resolveColumnValue** endpoints in the public API will now accept empty request body.

5. New features

**5.1.** **New graphical user interface in Portal**

The latest version of WEBCON BPS features a new graphical interface for Portal, now based on the Fluent 2 design system. As a result of the introduced modifications, both Portal pages and their elements, such as the **User menu** and toolbars, now feature a coherent, minimalist design that enhances the user's focus on key interface elements. Most elements, such as tiles and buttons, now feature rounded corners and subtle shading, making them easier for users to notice on the page and enhancing the overall aesthetic appeal. Additionally, the font size has been increased from 13 px to 14 px to improve the clarity of Portal pages.
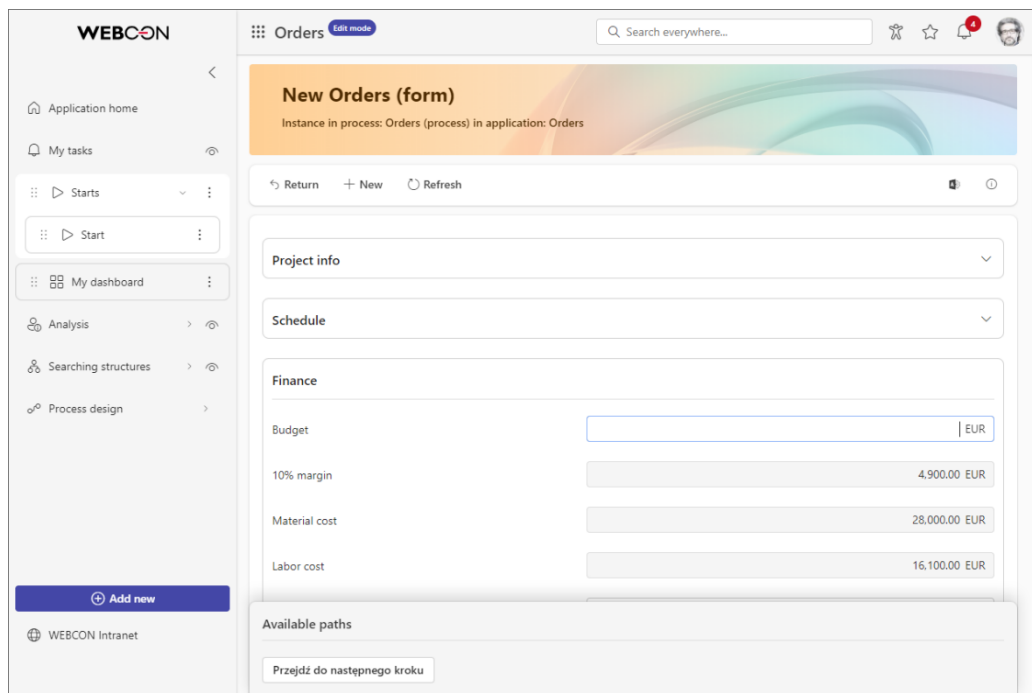
Apart from the changes related to the new graphical interface, some Portal components have been rearranged or had their behavior modified.

New application page

The appearance of the application page has been modified, and it now functions as a standard dashboard. The page's elements have been preserved, but now feature a different design. For example, an application icon is now displayed next to the application name, which can be selected by the application designer in Designer Studio. It is worth noting that both the page design and its elements can now be modified after enabling the edit mode (the **Restore default configuration** button allows users to revert to the standard appearance of the page).
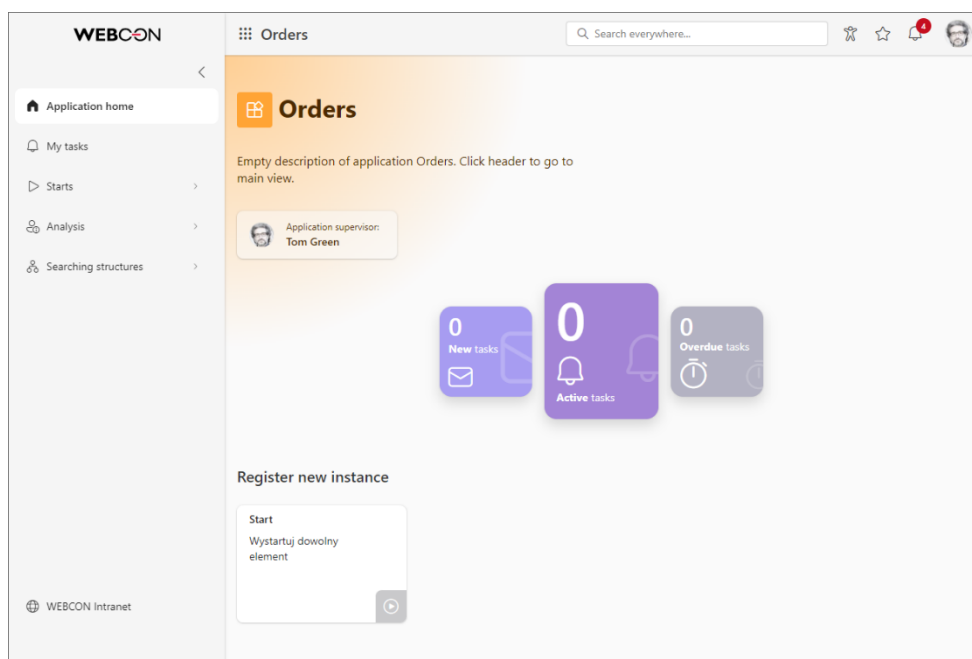
NOTE: After updating to the 2025 R1 version, the system dashboard – i.e., the dashboard set as the **Application Home** – will no longer appear in the navigation menu under the **Dashboards** folder. It will only be accessible via the Application Home button.

New design and functionality of the Navigation menu

The **Navigation menu** in the new platform version has not only been given a fresh appearance, but also been reorganized and enhanced with new functionality: folder creation. In the first case, an administrator can now hide certain menu elements (e.g., **My tasks** or **Searching structures**) and manage items such as reports, dashboards, or Start buttons by clicking the reversed ellipsis button located on their right side. These items can also be assigned to folders created by the administrator, which are designed to facilitate navigation (the administrator can define the folder's name, icon, and visibility).
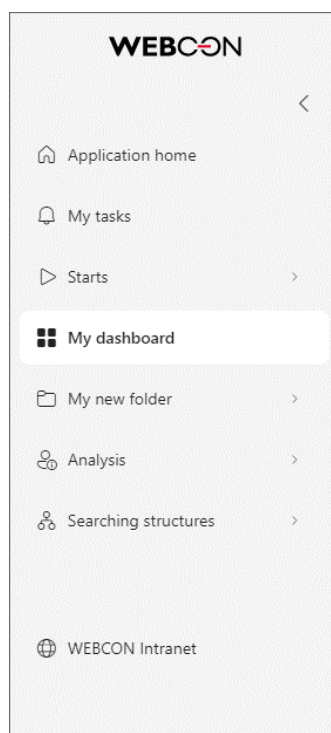
Changes within the User menu

The appearance of the **User menu** has been changed and reorganized to include the **Edit mode** button, allowing administrators to activate edit mode, as well as two options previously grouped under the button in the upper bar (**Translations** and **Embed**).
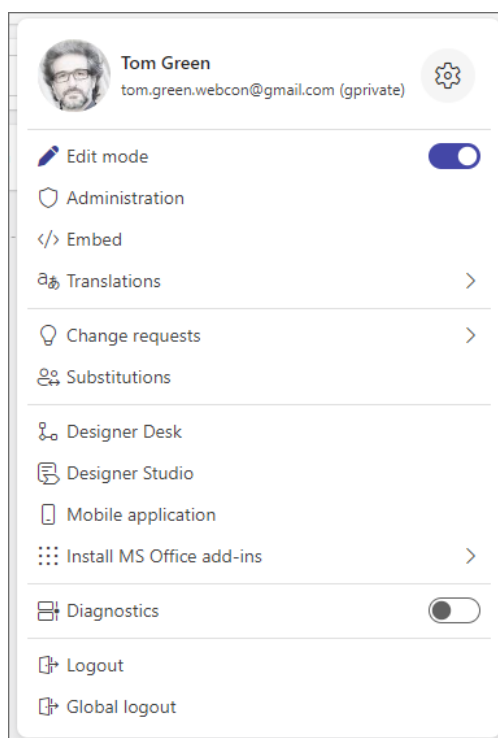

Color themes

The configuration options for color themes have been expanded. Users can now apply a selected theme in one of the three available types: **Light**, **Dark**, or **Contrast**. Additionally, it is now possible to define a **Brand color**. After specifying this color, system automatically generates a palette with corresponding shades (individual palette colors can be overwritten with custom colors). Additionally, users can define custom CSS styles to be applied to the Portal page after selecting a specific theme.

5.2. Navigation grid

Two new widgets, **Description panel** and **Navigation grid**, have been added to the **Additional dashboard elements** group. The new elements can be embedded within a one-column section of the dashboard. The widgets allow users to navigate between various application elements from the dashboard level, while the added images (from a device or via a link) enable the creation of a visually appealing start page. In both cases, users navigate using buttons that contain links to user-defined application elements, such as reports, dashboards, or **Start** buttons.

The Description panel widget allows users to embed an image, text, and up to four navigation buttons. The image can occupy up to half of the widget area, and users can specify its position by selecting one of the four available layout options.
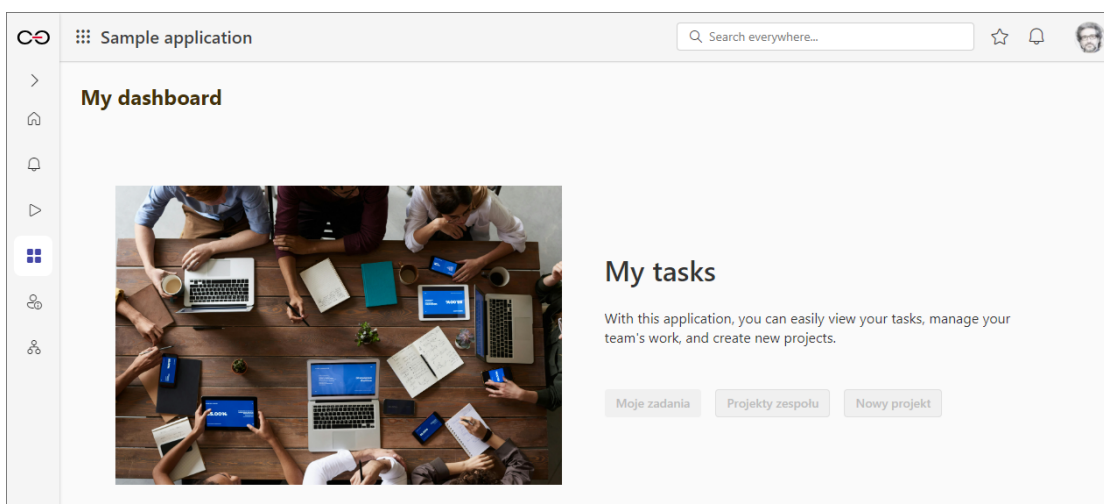

The other of the two widgets, the Navigation Grid, allows users to embed tiles containing an image or icon (depending on the selected layout option), as well as text and a navigation button (one per tile). The selected tile layout option applies to all tiles embedded in the widget.
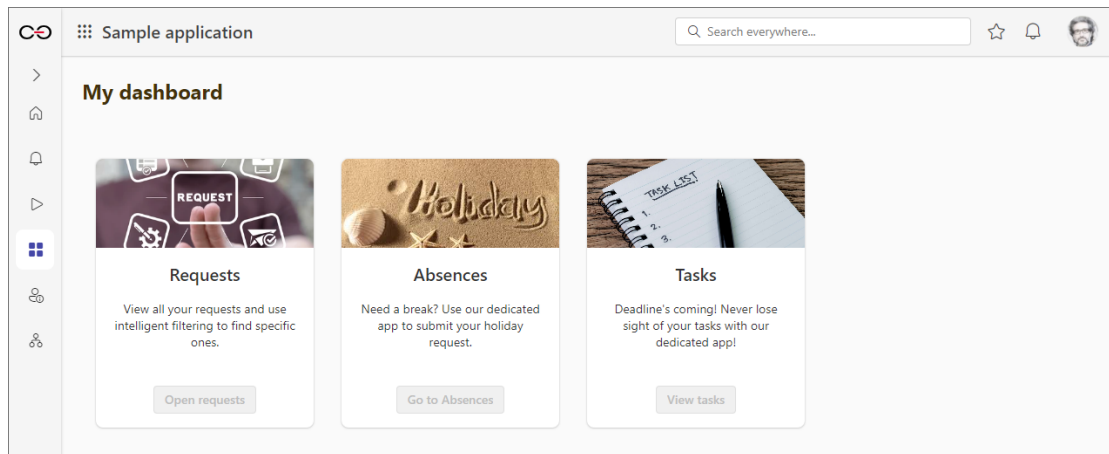
5.3. Filtering dashboard data sets

Added a new tab named **Filter panel** to the dashboard configuration window. This tab allows users to define filters that apply to data sets created within dashboards which supply the reports and **Report tiles** embedded in it. As a result, once a user adds and configures the filter(s), they can limit the data displayed in all dashboard reports that are supplied from the same data source.
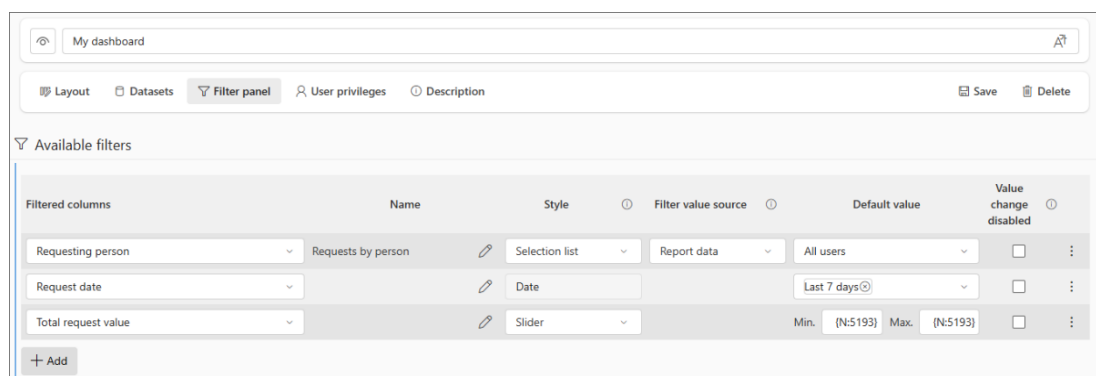

A dedicated widget named **Filter** has been added to allow users to apply the filters created in the Filter panel. Once a user adds this widget to the dashboard and selects the filters provided within it, they can enable or disable individual filters and define their values.
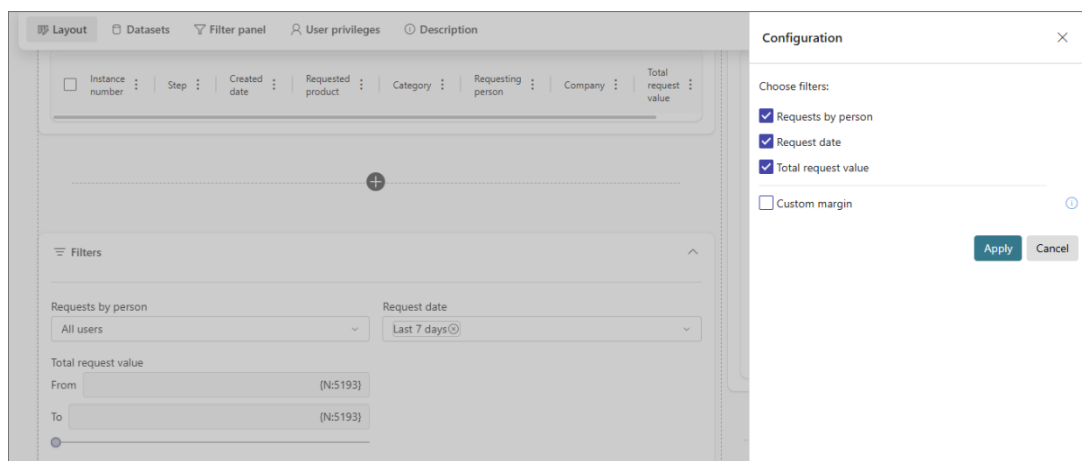
5.4. New styles for Report tile

The **Report tile** element added to the dashboard now offers additional style variants. Users can choose from four tile visualization styles: **Numeric value**, **Progress bar**, **Circular progress bar**, and **Gauge** (similar to the types available for the **Widget** form field, but offering wider configuration options). Consequently, the information within the tile can now be presented against other values.
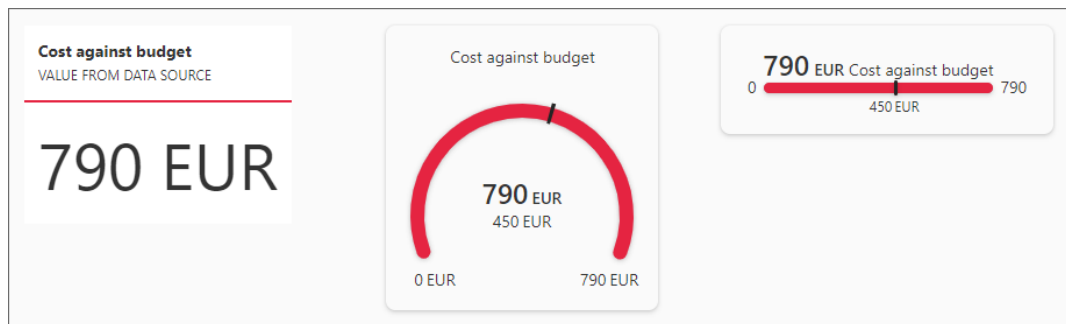
5.5. Access authorization on the form

It is now possible to authorize access to form fields analogously to authorizing path transition. This aims to add an additional layer of security for sensitive/confidential information on the form. The option is found in the **Visibility** tab of form field, group, and tab configuration.
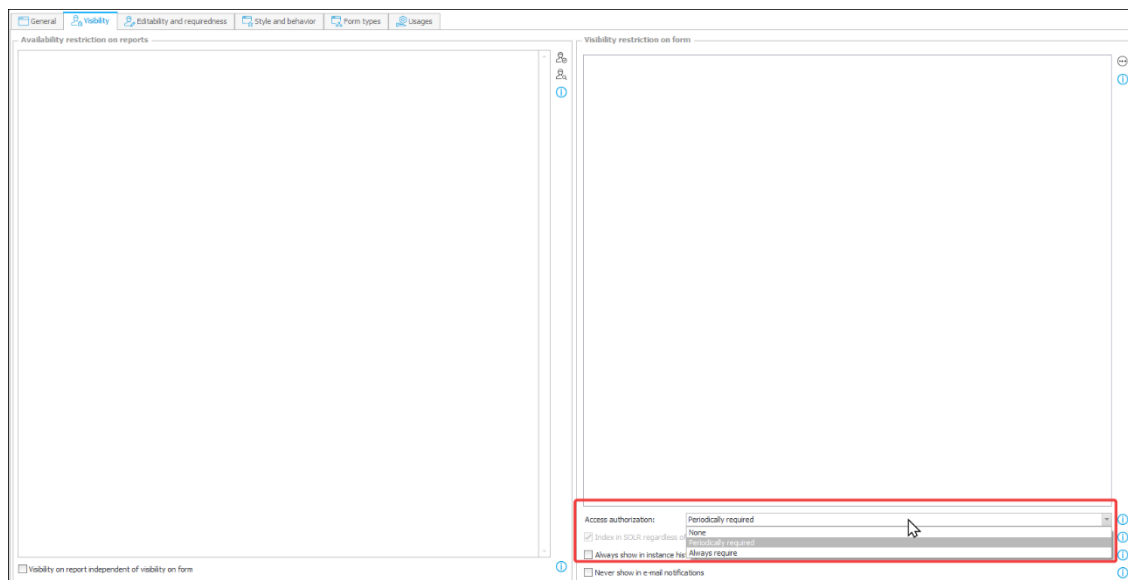
Just like in path authorization, the authorization methods are defined by the administrator under **System settings → Global parameters → Security**.

These methods are SMS, Email, and Mobile app.

The authorization session for form fields is shared with the path authorization session.

The form field access authorization behaves in two general ways, depending on the mode in which the form is being displayed – Edit or View.

Form in edit mode

Opening the form in edit mode will require the user to authorize access through one of the available methods. This is to ensure that form and business rules work correctly.

On the form that is saved (i.e. not in the start step), form fields, groups, and tabs will be hidden under the authorization button:

Clicking this button reveals the form field, as long as the access authorization sessions is still valid. If the **Periodically require** option is chosen, the access authorization is valid for a defined period (5 minutes by default). When the session is valid, the user may reveal any number of form fields with the **Periodically require** option.

If the **Always require** option is chosen, each form field with this configuration needs to be authorized separately to be viewed. This will also refresh the session for **Periodically require** fields.

Form in View mode (read-only)

In read-only mode, the preliminary access authorization when opening the form is not required. Access authorization to fields with the **Periodically require** option will

authorize access to any number of fields with this access authorization method – within the allowed timeframe.

The **Always require** option will require each form field with this configuration to be authorized separately, but it will additionally refresh all fields using the **Periodically require** option, if they are also used on the form.

Configuration

There are certain limitations for form fields with access authorization enabled. Form fields used in Reports, Dashboards, or as distinguishers cannot have access authorization enabled on them.

Because groups and tabs can also have access authorization, placing a field that is being used in one of the restricted areas will not be possible.

Additionally, access authorization cannot be configured on fields that use custom controls (SDK).

Access authorization does not work on shared instances – the authorization button is grayed out and displays info that authorization is not possible.

5.6. Workflow phases and actors

Two new functionalities have been added to WEBCON BPS: **Workflow phases** and **Workflow actors**. The main purpose of these new features is to provide a visual representation of the steps and related tasks, divided according to the stages of execution (phases) and the people responsible for their completion (actors), respectively. Together, these features provide another layer of workflow visualization.

Designer Studio

Functionalities can be enabled in WEBCON BPS Designer Studio by activating the corresponding checkboxes in the **Workflow settings** section of the **General** tab in the workflow configuration window.
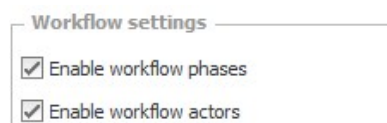
Three phases appear in the **Workflow designer**: **Start**, **Execution**, and **Finish**, as well as two actors: **Actor 1** and **Actor 2**. By default, the entire workflow is placed in the Execution phase and/or at the Actor 1 level. Users can drag steps to any phase/actor field, as well as add and remove phases and actors using the menu available by clicking on their names.
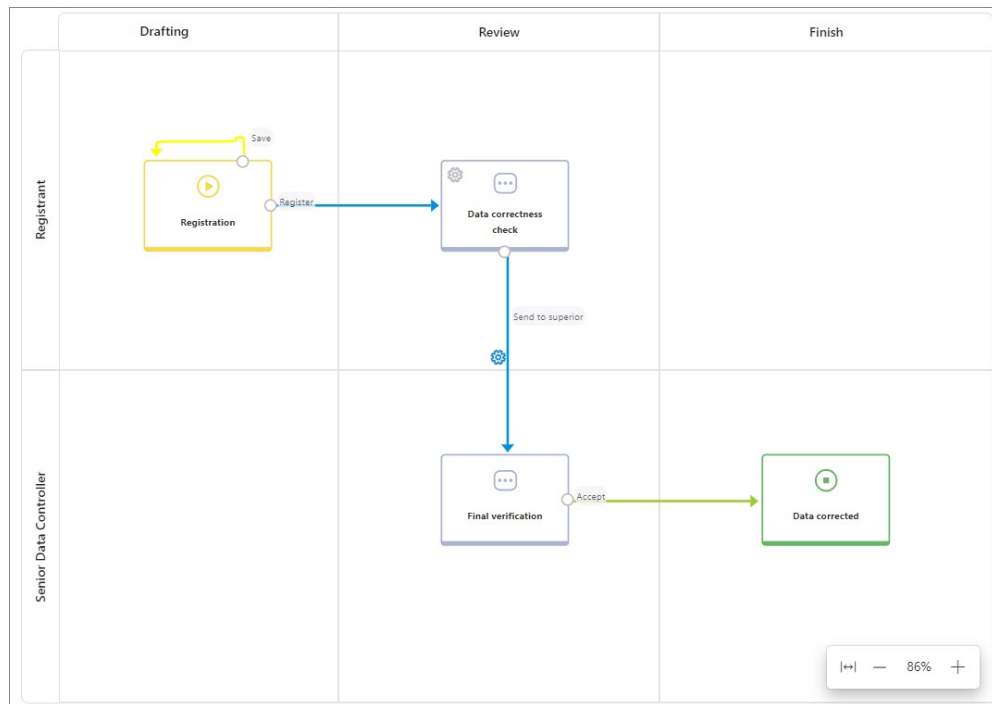
Selecting the **Edit** button (pencil icon) in this menu opens the **Properties** window, where it is possible to change the name, description and documentation of the phase/actor and their translations. Directly on the diagram, it is also possible to change the size of individual phase/actor blocks, with a minimum size of 400 px.

Enabling Workflow phases is equivalent to activating the grouping and sorting of steps by defined phases in the **Workflow steps** section (**General** tab). At the same time, new steps can no longer be added here.

For newly created applications, standard processes and their workflows, the Workflow phases functionality is automatically enabled – the start step is assigned to the Start phase and the end step to the Finish phase.

Information on defined phases and actors is also available in dedicated chapters of the documentation generated for a given process.

Form

Enabling Workflow phases also makes changes to the **Global form template** in Designer Studio, where the **Workflow phases** option appears in the **System areas** section. Its function on the form is to inform the user which of the defined phases the workflow instance is currently in. Clicking on this option in the configuration window brings up the **Properties** node, where users can select one of two area **Display types**:

Axis or **Blocks**. For newly created workflows, the Workflow phases area is automatically added to the top panel of the form.

The division of steps into phases is also visible in the **Field matrix**. In addition, enabling the functionality determines the content of its **Standard areas** tab. In this case, the **Steps** row is replaced by the **Phases and steps** row, and steps are displayed by phase in the form's **Info panel**.


The **Steps** option in the **Area visibility** section (**Forms** tab of the step edit window) is updated in the same way.

Designer Desk and Project designer

Similar changes have been made in WEBCON BPS Designer Desk and in the **Process design** section of Portal.

In Designer Desk it is possible to enable and disable the **Workflow phases** and **Workflow actors** functionalities, assign steps to them, edit the number, names and descriptions of phases and actors, present information on Workflow phases in the form and Field matrix as well as include data on phases and actors in the generated prototype documentation.
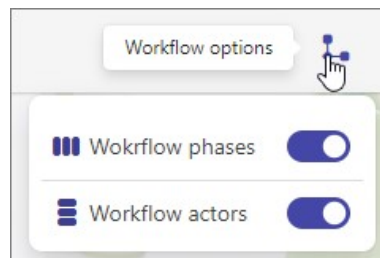
The **Process design** section in Portal displays the settings of phases and actors entered in Designer Studio, and users can change their metadata (names, descriptions, documentation and translations).

5.7. New Business rule functions

Two new items have been added to the list of functions for **Business rules**: **PICTURE** and **GET PHOTO GEOLOCATION**. The functions are available in the expression editor in the **Files** group (previously known as Attachments).
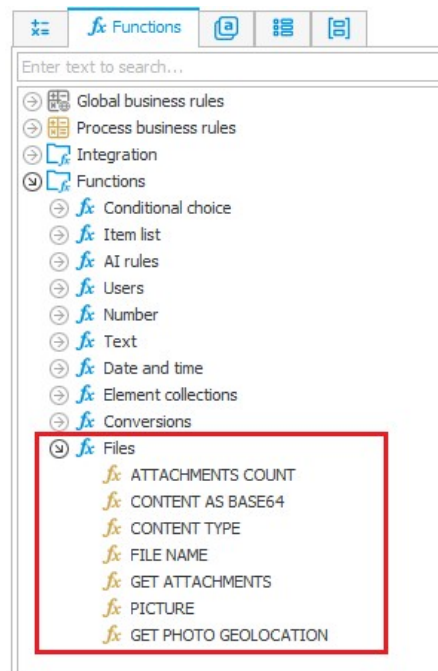
PICTURE

The function is used to load images (in .png, .jpg, .jpeg format, among others) and save them, for example, as Business rule defaults. The maximum size of a single file is 512 KB and it is saved in Base64 format after loading.

GET PHOTO GEOLOCATION

The function is used to retrieve a geographic location based on the metadata of an image file. The data is retrieved by specifying an attachment ID (or multiple IDs separated by semicolons) or by using the **GET ATTACHMENTS** or **PICTURE** functions. The **GET PHOTO GEOLOCATION** function returns a text value containing latitude and longitude separated by a comma. If there are multiple values, the pairs of values are separated by semicolons. If none of the images contain geographic location metadata, an **EMPTY** value is returned.

5.8. New functions and a new group dedicated to the Item list in Form rules

The form rules have been expanded by including new functions dedicated to the **Item list** form field and a new function group named **Item list styling**.

New functions

Added four new functions that control the visibility of the buttons within the **Item list** group (the **Functions** node in the variables editor selection tree). The functions are:
– **HIDE ITEM LIST ROW BUTTON** – hides a selected action button in the Item list row (**Delete**, **Clone**, or **Edit**),
– **SHOW ITEM LIST ROW BUTTON** – displays a selected action button in the Item list row (Delete, Clone, or Edit),
– **HIDE ITEM LIST BUTTON** – hides a selected action button for the whole Item list (**Add**, **Edit all**, **Restore defaults**, **Remove all**, **Export**, or **Import from Excel file**),
– **SHOW ITEM LIST BUTTON** – displays a selected action button for the whole Item list (Add, Edit all, Restore defaults, Remove all, Export, or Import from Excel file). Additionally, the Item list group now includes a new function named **IS NEW ROW** which returns information whether a given row has been already saved in the data base.

New functions in the element dictionary in JavaScript mode

The functions **Item list button** and **Item list row button**, whose operation is analogous to the above-described functions available in the **Form rule** mode, have been added to the **JavaScript functions** node in the variables editor element dictionary. The functions are available in the **Show** and **Hide** groups after expanding the **Item list** form field node, allowing users to select a specific button to show or hide either within the Item list row or in the context of the entire Item list.

New group Item list styling and modified name of the Styling group

Added a new group named Item list styling to the Functions node. As a result, all functions associated with modifying the Item list style have been moved to this group, namely:
– **SET CELL FONT COLOR**,
– **SET CELL BACKGROUND**,
– **SET CELL FONT DECORATION**,
– **SET CELL FONT SIZE**,
– **SET CELL FONT FAMILY**,
– **SET CELL STYLE**.
Additionally, the previous name of the group Style has been changed to **Filed styling**. The group includes only functions associated with modifying form field appearance.

5.9. Deactivating automations or parts of them

It is now possible to deactivate an entire automation using the dedicated **Activate** checkbox. The option is available for automations configured from the **Workflow Designer** and the automation can be deactivated by unchecking it.

At the same time, the context menu (**Deactivate** option) now allows users to deactivate not only individual actions, but also entire groups of them configured under operators: **SWITCH**, **For each**, and **Condition**.

Deactivated automations or parts of them are grayed out and do not appear in the instance **History** in Portal after execution.
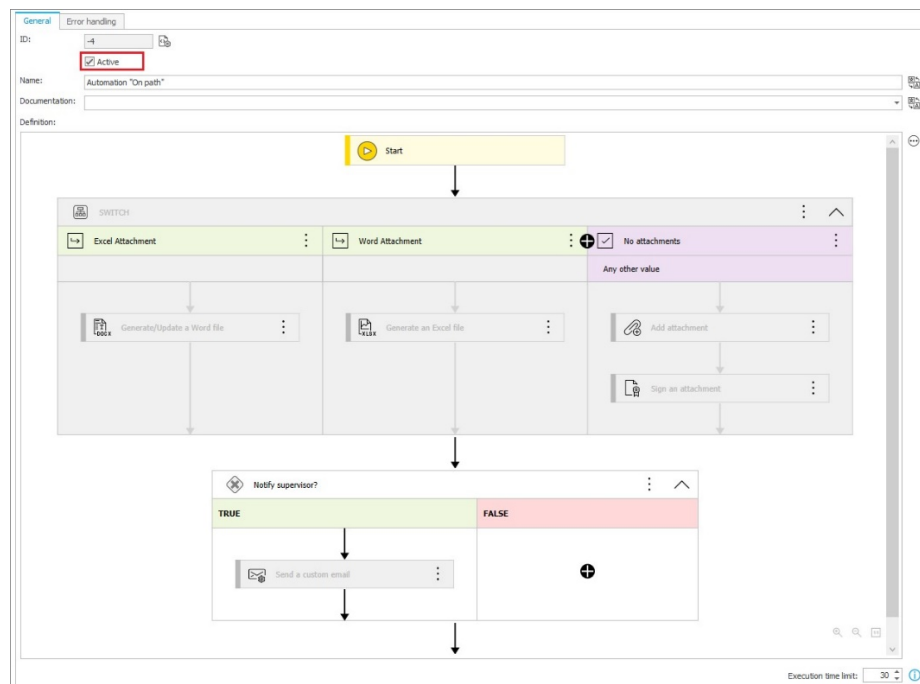
Users can also preview deactivated automations in the **Workflow designer** accessible from the **Process design** in Portal.

5.10. Overwriting existing attachments with files uploaded through actions

A new checkbox, **Overwrite attachment with the same name**, has been added to the configuration window for the following actions: **Convert Word to PDF**, **Generate an**

Excel file, **Generate/Update a Word file**, and **Generate a PDF file**. The checkbox allows users to specify whether the file uploaded through the action will replace an attachment with the same name in the attachments panel (if selected) or will be added next to the existing attachment with an ordinal number in brackets appended to its name (if unselected).

5.11. The Generate a text file action

The **Attachments** action group now includes a new action called **Generate a text file**.

The action operates in one of the three available modes (the **Working mode** field in the **Template** tab) which enable creating a new file, appending text to an existing file in the attachments panel, or overwriting that file. The created or processed file can include text inserted using context variables entered through the variables editor (in the **Content** tab). In addition, it is possible to select the encoding applied to characters specific to a particular alphabet. The file generated or updated by the action is added as a form attachment.

The execution of the action always results in creating only one version of the instance, regardless of the number of operations modifying the attachment.

5.12. The Merge attachments into a Word/PDF file action

Added a new action, **Merge attachments into a Word/PDF file**, which combines files uploaded as form attachments. As a result, a single file is created in the format specified by the user (DOCX, PDF, or PDF/A), composed of the attachments merged in the defined sequence. The action allows merging files of different formats.

5.13. The Add attachment to another workflow element action

The **Add attachment to another workflow element** action has been added to the **Attachments** group. This action allows users to transfer an attachment from the current instance to a different instance, including those belonging to other workflows or processes. The action configuration requires defining the target instance and specifying at least one attachment to be added to it. In the first scenario, when selecting the target instance, users can choose the **Parent workflow instance** (via the **Selection mode** field), use a variable associated with a form field that stores the instance ID (the **Form field value** option), or create an **SQL query**. On the other hand, selecting an attachment involves specifying the category from which it will be retrieved (the **Category** field), defining whether the attachment will be copied or transferred (the **Source files** field), and indicating the attachment's category in the target instance (the **Output file settings** section).

5.14. The Update privileges for a OneDrive file action

The OneDrive action group now includes a new action called **Update privileges for a OneDrive file**. The action allows adding access privileges to a form attachment in the form of a document shared via the Microsoft OneDrive service. The privileges are assigned to users who have access to the instance containing the attachment. (The ability to edit or view the document in OneDrive depends on the type of privileges the user holds for the respective instance workflow.) The action can be configured to grant

privileges to additional users (using the **Add privileges** mode) or to overwrite the existing privileges with new ones (using the **Overwrite privileges** mode).

5.15. The Send a PUSH notification action

The **Notifications** group in the action selection menu now includes a new action named **Send a PUSH notification**. The action allows users to send a PUSH notification to user's mobile device which has been registered in the system. The delivered notifications may relate to operations executed within the system, such as task assignment within an application, or workflow instance registration or modification.

The notification within the action can be sent to at least one recipient or group; however, it will not be delivered if a user blocked receiving PUSH notifications for the application from which the notification had been sent (**User profile → Notifications in the mobile application (PUSH)**). Both the notification header and body can be modified and contain context variables. A notification can be sent to individuals substituting the recipient if the latter is absent (the **Send to substitutes** checkbox).

Together with the new action, a new parameter **Send standard PUSH notification in mobile application** (path configuration window → the **Task creation** tab) has been added. Its selection results in sending a PUSH notification after receiving a task in the BPS system when a user transits a path.

In addition, the previous name of the **E-mail notifications** node has been changed to **Notifications** (**System settings** → selection tree).

NOTE: to ensure correct operation, please update the mobile application to the latest version available on the Google Play or App Store platforms.

5.16. Actions for managing BPS group owners

Two new actions have been added to automate the management of BPS group owners. The first action, **Add BPS groups owners**, allows users to add or overwrite the owners of a BPS group, while the second action, **Remove BPS groups owners**, enables users to delete existing owners from a group. In both cases, the user to be added or deleted and the target group are specified using the BPS ID (the **User identifiers (BPS ID)** and **Group identifier (BPS ID)** fields in the action configuration window). These actions can also be used within global automations; however, in this scenario, it is not possible to use variables that refer to form fields.

5.17. Extended REST API

The **API beta** has been extended to include additional functionalities for assigning tasks and editing attachments.

Dynamic task assignment

Introduced the ability to dynamically assign tasks via the API beta. An additional parameter, **specifiedUsersTasks**, has been added to the **PublicApiElements** endpoint that can be used to specify users to be assigned a task.

```
        },
        "specifiedUsersTasks": {
            "directTasks": [
                "string"
            ]
        }
    }
```

If dynamic task assignment has been configured in Designer Studio on the path through which a workflow instance goes, the settings made via the API will be overridden.

Dynamic assignment of tasks to users is also possible via the new **additionalUsersTasks** parameter in the **HighTrustApiElements** endpoint. In this case, the task will be assigned to additional users while maintaining the dynamic assignment settings entered in Designer Studio.

Ignored checkout when editing an attachment

An **ignoreCheckout** parameter has been added to selected attachment endpoints in **HighTrustApiElements** mode, allowing users to perform operations on the attachment without having to check out the workflow instance.

| GET | `/api/data/beta/hightrust/db/{dbId}/elements/{id}/attachments` | Returns a collection of attachments for the selected element. |
| POST | `/api/data/beta/hightrust/db/{dbId}/elements/{id}/attachments` | Adds new attachment to selected element. |

5.18. Updates to the Invoke REST Web service action

It is now possible to define the **Invoke REST Web service** action as a global **Cyclical** action. Due to the lack of access to form fields, the value mapping in this case is done using a **Business rule** and reference to automation/operator parameters.

The action has also been updated with the ability to add attachments to workflow instances. In the action configuration window, in the **Response** tab, the **Body type – Binary** parameter has been added. The response to an HTTP request is loaded as a binary file and added to the form as an attachment. It is possible to take the file name from the **Content-Disposition** header (or define a custom name) and specify its category.

5.19. Viewing historical versions of attachments

In the instance **History**, it is now possible to view historical versions of files added to the form. If the attachment file was modified in any way in the given step, the user can click the magnifying glass icon to view the different versions and compare the changes made to the current file.
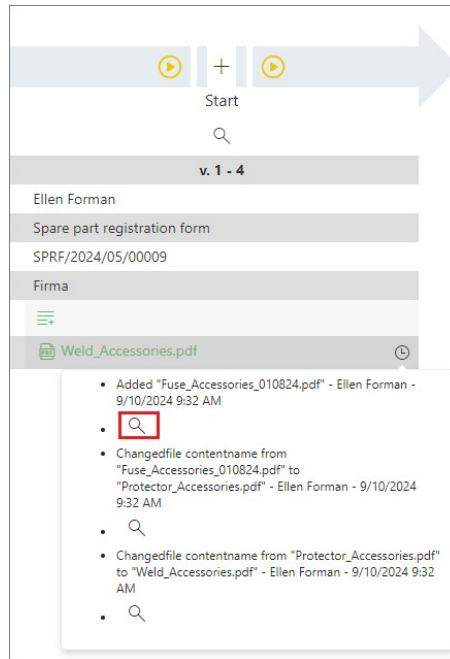
5.20. Preview of Excel files

Added an option to preview Microsoft Excel files that are attached to a form (also in the mobile app), in **History** and **Template** reports.

The option can be configured in the **Main form Properties** in WEBCON BPS Designer Studio.
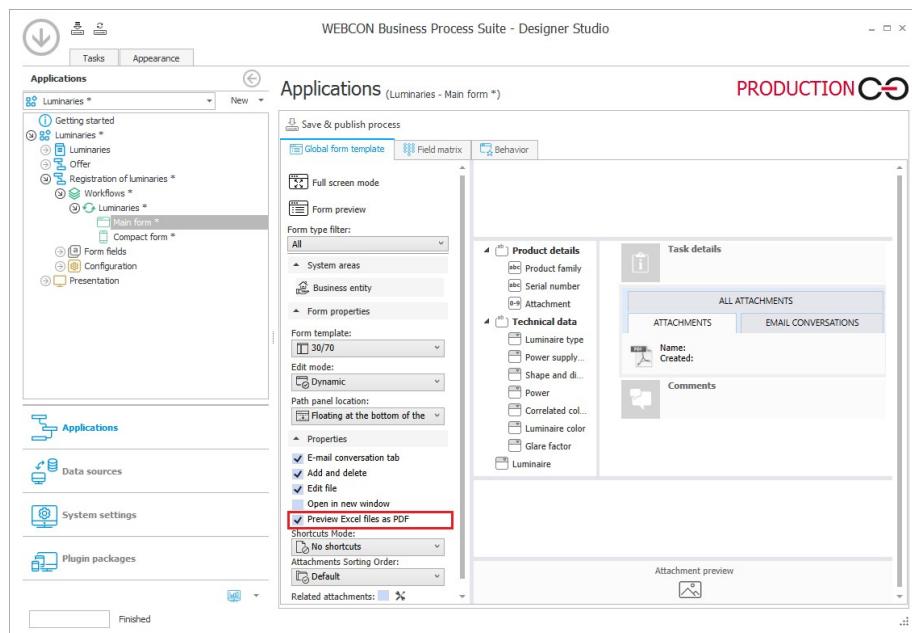
If checked, spreadsheets can be displayed as .pdf files directly in Portal.

The option is unchecked by default. In this case, clicking the Excel file in Portal will download it to the local disk as before.

5.21. General

- Added support for Security Information and Event Management (SIEM) providers, allowing users to integrate with Google Cloud, AWS CloudWatch, and Microsoft Sentinel through the **OpenTelemetry** tool in WEBCON BPS.

5.22. Portal

- The **Text** widget, embedded within the dashboard, now allows the translation of formatted text. The translated text can then be edited by selecting the desired language from the toolbar's drop-down list.

- Added functionality that allows users to define the name displayed above the **Start** button on the **Dashboard**. To enable this, a **Display name** field has been added to the Start button's configuration panel.

- The Dashboard configuration window now includes a new **Full screen layout** button. Unchecking the button (which is selected by default) will limit the Dashboard's presentation area. This solution allows users to easily enhance the legibility and overall aesthetics of the Dashboard, especially when it includes navigation widgets.

- A **Notifications** button was added to the **Single-Use Access License Settlements** view. This option sets a threshold of remaining licenses beneath which a warning will be sent. Another warning will be sent once all licenses are exhausted completely.
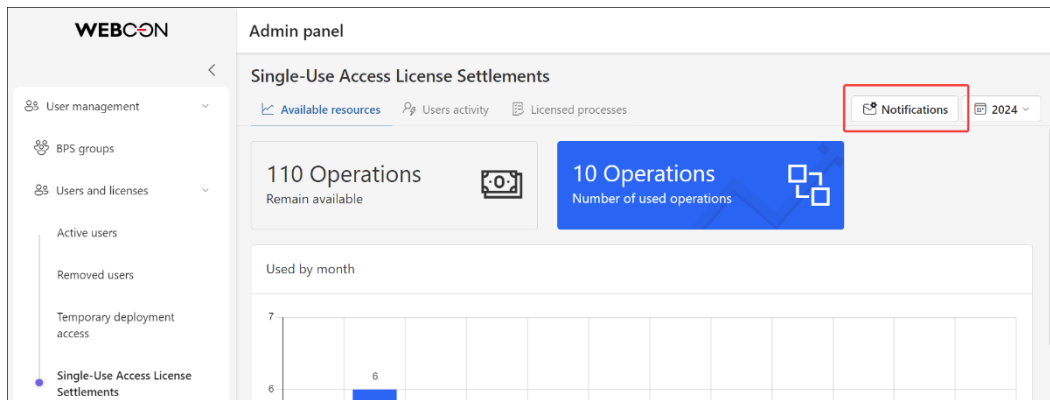
The warnings are sent as **Administrative notifications** – the Licensing range must be added to their configuration.

- Added the option to share private views with other users. If the option to allow other users to access the view has been enabled, the view can be shared with other users simply by giving them the direct URL as long as they have privileges to see the report.
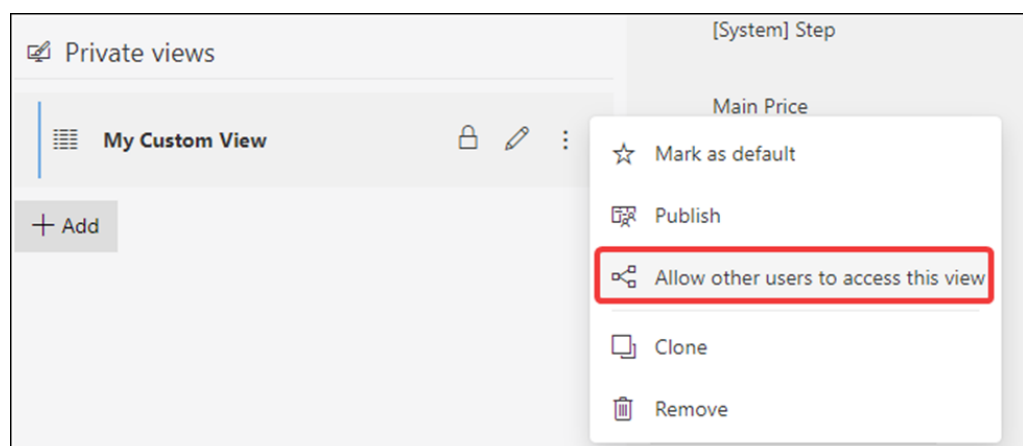
5.23. Designer Studio

- Added functionality that allows users to choose an application icon which is displayed next to its name in Portal. Once the application is created, users can select their preferred icon from a set of approximately 2,500 icons using the dropdown list in the **Icon** field, located under the **General** tab in the application configuration window.

- Added the possibility to define the welcome and description text displayed on the Portal main page. Users can enter their own text in the **Welcome text** and **Description** fields in the appearance configuration window (**System settings** -> **Appearance**). The entered text can be translated and – in the case of the Description field – formatted.

- In the case of the Entra ID (AAD) service, added the possibility of synchronizing Member-type users whose UPN identifier includes the phrase "#EXT#". In such cases, the user's main e-mail address is utilized as the BPS ID. Additionally, for all synchronization types, the system now skips users whose BPS ID contains the "#" character.

5.24. Rules

- Added the **IS BUSINESS DAY** function to **Business rules** that will return True if the specified date is a working day. This function works based on the **Working days calendar** defined in the **Global parameters**.

Additionally, existing **ADD DATE** and **DATE DIFF** functions now have the ability to operate on working days via the **BUSINESS DAY** parameter. This allows for working days to be added to the specified date, or for calculating how many working days there are between two dates.

The ADD DATE and DATE DIFF are available in both Business and Form rules.

- The **DATE PART** function can now return the day of the week via the **WEEKDAY** parameter. The value is returned as text in English.

To allow comparisons, the **Date and time** group will now have functions that represent the days of the week in English.

- Added **ALL TRUE** and **ANY TRUE** logic operators to the rule editor. These operators aim to replace multi-layered conditions built from many **AND** or **OR** operators nested in each other.

ALL TRUE returns TRUE when all conditions are met – used to replace layered **AND** operators.
ANY TRUE returns TRUE if any condition is met – used to replace layered **OR** operators.
The **ALL TRUE** and **ANY TRUE** operators can be freely switched between one another from the context menu. An **AND** operator can be changed into **ALL TRUE**, while an **OR** operator can be changed into **ANY TRUE**.

- The variables library available in the rules editor now includes a new context variable, **{PORTALADDRESS}** (in JavaScript mode, it is accessible under the

name **GetPortalAddress**). The variable returns the currently set full Portal address, ending with a slash character (/).

- The Business rules editor now has two additional context variables: **Do I have permission to edit?** and **Is this a new instance?** These variables can be used to build conditions (e.g. visibility) based on the relevant information: does the user have privileges to edit the form or is the form a part of a new, unsaved workflow instance.

- Added the **SET FORM SUBTITLE** function to the **Behavior** node (in the **Functions** tab) of the form rules. This new function allows users to set the subheading in the form banner.

5.25. Actions

- In the **Add attachment** action configuration, a button was added next to the category selection used to refresh and load categories defined in the **Attachment details** node of a process.

- Full information logging has been introduced for each request sent by WEBCON BPS to OneDrive. The solution will streamline diagnostic operations in case of an error in the execution of related actions.

5.26. Service

- Implemented a mechanism to cancel long-running path transitions executed by the service. Currently, if the time limit specified in the **Service operations timeout in seconds** field (found in the **Configuration** tab of the service settings window) is exceeded, the path transition executed by the service is canceled. This operation also results in the cancellation of any actions that have been executed on the path or were scheduled to be executed.

5.27. API & SDK

- The SDK has been expanded to include a mechanism that enables loading from a plugin package independent files for service and Portal. This mechanism relies on two folders, **ServiceDependencies** and **PortalDependencies** where the respective files for Service and Portal are stored. These folders can be added to a plugin package, ensuring that the files they contain are loaded only in the specific environment (Service or Portal).

6. Bug fixes

6.1. General

- Changed the execution condition for the script that alters report configuration during the platform update to the 2021 version. Previously, the script was executed unnecessarily when updating the content database from version 2021.1.4.9 or higher to the 2022 version. The script execution error resulted in changing the predefined filter of the date saved in the report view.

- Improved the SQL query that triggered a timeout during the execution of migration scripts while updating the WEBCON BPS platform.

- Corrected the error message displayed when an incorrect SharePoint directory was provided. Additionally, fixed a bug related to the versions of the Microsoft.SharePoint.Client.dll file which occurred when attempting to connect to SharePoint on an environment where the SharePoint service was not installed.

- Fixed an issue with logging into Portal when a prefix was defined in the address (running address). The problem was caused by the forward slash being placed incorrectly, therefore the address was not built correctly.

- Fixed an issue with the installer that occurred when updating from version 2023 to 2024. Increased the size limit for Rules when saving, and removed the time limit for queries in this migration script. Error logging has also been improved.

- Fixed an issue with the **/health** endpoint. Added the ability to define a timeout for SQL server connection in the healthCheck mechanism (5 seconds by default).

- Fixed an issue with the tool used to validate FineReader 12 installation.

- Improved the creation of rule previews that appear in the documentation generated for processes. Instead of correct variables, the rule diagrams contained only the identifier of the given value/object.

6.2. Portal

- Fixed a bug that caused a new browser tab to open with the Portal home page displayed when the middle mouse button (scroll) was clicked on an application name in the **Frequently used applications** section. After the change, the new tab correctly displays the page of the selected application.

- Fixed an error that occurred when rapidly editing and saving the text widget on **Dashboards**.

- Improved filtering of column values for a report based on a **SearchIndex source** when the source contained similar values that differed only in case size.

- Fixed a bug that prevented going through a path when a user with an assigned task was to receive an associated PUSH notification.

- Fixed a bug that prevented a report from being displayed and its configuration from being changed if incorrect grouping settings were entered in the **Private view** of that report.

- Fixed a bug that prevented the correct loading of **Archive** data in **Searching structures** after disabling the previously set sorting.

- Increased the efficiency of reports by optimizing indexes related to user tasks.
  In the **ActiveTasks** table, Instead of IX_ActiveTasks_User index, the following one will be created:
  IX_ActiveTasks_User_IsDeleted_IsFinished_TSK_WFHID_Incl_WFDID_STPID_AssignTypeID_ElementWasDisplayed_Flag_Overdue.

- Fixed an error in the **Search everywhere...** box when pressing the up arrow key.

- Restored the ability to take over tasks from people who are not direct reports of the user (e.g. subordinates of subordinates).

- Fixed a bug that caused the removal of additional filters in the configuration of **Report Tile**. The bug occurred after saving an unmodified dataset configuration.

- Fixed a bug that occurred when the time of adding an attachment file was too long due to its large size. The bug caused a timeout at the end of the file upload, which was divided into chunks.

- Fixed a bug in the **Vacation schedule** where expanding the node of an individual at the 5th level of the company hierarchy also expanded the nodes of all individuals at higher levels if their nodes had been previously collapsed.

- Corrected the alignment of numerical values to the right side of the column in a tabular report. The bug occurred when the user selected a checkbox in the **Action menu** within the **Views** tab of the report configuration for the column containing numerical values.

- Improved filtering of **Report** items (configured based on **Searchindex source**) using the predefined filter **All where I participated or created by me**.

- Fixed an error that occurred when opening the instance **History** in a language that uses the minus sign (U+2212) as a prefix for negative numbers instead of the regular hyphen-minus (U+002D). This applies to languages such as Swedish, Finnish, Croatian, Norwegian, and Lithuanian.

- Improved the efficiency of the Analytics module. Increased the speed of generating element aggregates.

- Fixed a bug that occurred when the URL address of any Portal page included the phrase "DB" in capital letters. Now, such pages will open correctly regardless of the letter case of this phrase.

- Fixed a bug that prevented the correct display of the **Absence chart** when its data applied to more than one person, such as when the default filter **Me and my subordinates** was selected.

- Improved logging of the execution of system operations in the **AdminWEventLogs** table.

- Fixed a bug that prevented an instance from being found in a report with **SearchIndex** source. The issue occurred when the instance was accessible to a group with an "&" character in its name.

- The message: "Workflow instance does not exist" will be displayed when trying to manually change the URL of a Designer Desk instance to that of a Portal instance in the address bar.

- Fixed a bug that occurred when searching for phrases using **Search in navigation** and narrowing search results using the available filters.

- Fixed a bug due to which the **Horizontal bar** report contained the values "0" and "1" instead of the defined label names.

- Optimized searching in **CacheOrganizationStructure** for users whose data is no longer available in the system, but to whom tasks have been assigned. In this case, once the form is accessed, such users will be searched by **BpsId**.

- Fixed a bug that caused a message informing on the possibility to force a workflow instance check out to be displayed every 10 seconds. After the change, this message is displayed 10 minutes after another user checks out the workflow instance.

- Fixed a bug that prevented finding an instance in the **All my tasks…** search box within the **My tasks** panel. The bug occurred only if the search was performed within the context of all applications, i.e., if the My tasks panel was opened from the Portal main page.

- Improved the width scaling of the attachment preview section, so that attached e-mail previews correctly show larger images placed in the e-mail content.

- Added handling for incorrectly configured SQL Filters in **Reports**. Until now, an incorrectly configured filter could cause errors and a "kill state" in the Report. The fix adds a mechanism to prevent a "kill state" when the filter is configured incorrectly.

- Fixed a bug that prevented a Portal page from refreshing in Firefox. The bug occurred when the page was inactive, meaning the user was operating within a different application at the time.

- **OpenTelemetry** packages have been updated to the latest versions so that metrics are now exported in the correct format.

- Fixed a bug that occurred for reports with the **SearchIndex (SOLR)** source set when searching for report items from a defined range and one of the range values was not specified.

- Improved logging of report information in the .json file from the executed **Diagnostic session** by including SQL parameters.

- Fixed a bug that caused discrepancies between the values shown in the **Absence chart** form field within an instance and the corresponding report in the Portal. Due to the bug, absences occurring at the turn of the month were not visible in the form field.

- Improved filtering of **Report** items by **Person or group** form field. When a person is selected from the list in the filter configuration, sorting will be automatically enabled. Person list will be displayed and sorted correctly also when multiple users are selected/unselected.

6.3. Form

- Fixed a bug that occurred when attempting to display a report whose **Attachments** column included file names containing the semicolon character.

- Restored the ability to use HTML elements in calculated columns of **Item lists**.

- Added a "No matches found" message when no values are returned for a **Choice field** configured based on a **REST Web Service** data source.

- Fixed a bug that caused the action button text to be copied along with the instance number text when the latter was copied using the Google Chrome browser.

- Corrected the behavior of the **Item list** when changing the default value in one of its cells, which caused the entire list to be updated instead of the specified dependent fields.

- Fixed an Invalid checksum exception, which occurred after changing the value of a **Choice (picker)** or **Autocomplete** column on an **Item list** with multiple values enabled. The error occurred in a cloned row when the original row already had selected values.

- Fixed a bug that prevented drag-and-drop addition of folders containing files (and subfolders) as form attachments.

- Fixed a bug where using a **Form rule** with **DELETE ALL ROWS** function would unintentionally focus on the "Add" button of the **Item list**.

- Fixed a bug due to which the data in the **Data table** form field did not change dynamically based on the respective rule after selecting value in a different form field.

- Fixed a bug causing incorrect behavior of paths returning to the previous step. Due to the bug, the path with the value **Back to the previous step** selected in the **Destination step** field transferred users to the start step.

- The Edge browser suggested previously entered values. This has been disabled – browsers should not suggest values in form fields.

- Added a warning when attempting to save a process with a configured **Google Map** form field if the **Google API key** is not specified in the **Global parameters**.

6.4. Designer Studio

- Fixed an application import error when the operation required transferring privileges between environments.

- Fixed a bug that prevented erroneous emails from being removed from the queue in the **Email sending report** in WEBCON BPS Designer Studio.

- Fixed a bug that resulted in an unintended alteration to an SQL query after it was saved in the **Expression editor**. The error occurred if the tag used in the query contained a newline character in its display name.

- Fixed a bug that prevented the generation of documentation for the process configured with a form field that retrieves data from the **Users and groups source** with value filtering set.

- The **FILE NAME** function in **Business rules** has been improved to return the current name of the attachment rather than its original name. Similarly, the **Convert Word to PDF** action and actions from the **OneDrive** group will use the current name of an attachment rather than its original name.

- Fixed an issue that occurred during application import. Added safeguards against empty values when saving the import history.

- Corrected the message that appears when attempting to save changes in the **Diagnostic logging mode** to include the information that WEBCON BPS Portal needs to be restarted.

- Fixed a bug that prevented correct connection between domains when user credentials were entered manually in the **Active Directory synchronization configuration**.

- Fixed an issue related to user synchronization. Incremental synchronization was launched only for one content database – this could result in missing privileges even though the synchronization was successful.

- Fixed a bug that prevented attachments contained in a .zip file from being imported into the attachments report.

- Corrected the content of the warning in German and English displayed when attempting to delete a path containing automation.

- Fixed an error that occurred after entering incorrect data in the **Active Directory Actions Configuration** node. The error will be shown when attempting to save incorrect data. It will not be shown when closing the configuration window.

- Fixed a bug that prevented the transfer of filter values between environments using the export/import mechanism. The bug was caused by the incorrect saving of filter configurations, where tags were omitted.

- Fixed a bug that resulted in the incorrect transfer of the **Multiple lines of text** field value by the **Start a subworkflow** and **Change value of single field** actions. The bug occurred when the form field configuration had both compatibility mode and **Append mode** enabled.

- Fixed a bug where no asterisk character was displayed next to the **Main form** item in the selection tree after a modification was made in the **Field matrix**. The bug occurred when a step column was dragged to the right and the moved step had been preceded by at least two **Workflow control steps**.

- Fixed a bug that occurred during the import of an application. The bug appeared when the checkboxes **Business entity named […] already exists on the target environment. Do you want to overwrite its privilege settings?** and **Do you want to overwrite security settings?** were selected.

- Fixed a bug that allowed saving a synchronization configuration with Entra ID (Azure Active Directory) without defining the **Client secret** parameter or after changing the other parameters (**Tenant ID** and **Client ID**) to incorrect values.

- Fixed a bug that occurred when importing an application from the **DEV** environment to the **TEST** environment. The bug appeared if the translation of the form field name contained only a space character.

- Improved retrieving the list of attachment categories in the configuration of actions performed on attachments when using **Dictionary process** as a data source.

- Fixed a bug that prevented displaying the location where an MSSQL connection is used if such a connection had been configured in the **Validate form** action.

- Improved saving of translations of newly created **Message templates**.

- Fixed a bug that displayed a blank message when importing elements from an Excel sheet took too long. Now, an error message is shown when the allowed import time is exceeded.

- Improved the display of the **ToDo List** window. After the change, the window is always displayed in the upper left corner of the screen where the cursor is currently positioned.

6.5. Actions

- Fixed a bug due to which, as a result of the **Add a text layer** action, the number of consumed pages available for text recognition under the FIneReader 11 license was larger than the actual one.

- Corrected the layout of the text in the footer of a document created by the **Generate/Update a Word file** action. An issue occurred after going to the print preview of a document whose contents were defined by a **Business rule**.

- Improved the performance of the **Add a text layer** action by modifying the default parameters for creating a text layer engine and aligning them with ABBYY documentation.

- Fixed a bug causing deletion of **Item list** rows that were hidden on the form in **Acceptance** mode.

- Fixed a bug that caused incorrect retrieval of connection parameters when editing/viewing a file that was checked out in OneDrive through the **Start editing a file using OneDrive** action.

- Modified the behavior of the rule that processes the received value in the **Invoke REST Web Service** action. When the input value was empty and the **Date** type was selected for the rule, inserting the value into the date form field resulted in an error. The value of the field will now clear in such a case.
  Similarly, the behavior of the rule for the **Floating-point number** type has been changed. Instead of setting the value to "0," the value of the form field will clear.

- Fixed a bug that prevented the insertion of values recognized through the **OCR AI recognition** action into the **E-mail** form field, as well as global form fields like **Single line of text**, **Choice field**, and **Date and time**.

- Fixed a bug that caused the execution of a global automation, which set an output parameter, to obstruct the setting or transfer of subsequent variables or parameters in a process automation where that global automation was used.

- Fixed a bug that occurred during the configuration of the **Generate an Excel file** action. The issue arose when the GUID identifier of the document template started with the "def" prefix and the template was dynamically calculated.

- Fixed a bug that occurred after cloning a workflow that contained an automation with the **For each** operator. The bug appeared when attempting to open the configuration window of the cloned automation.

- Fixed a bug that occurred when attempting to delete a non-existing meeting through the **Exchange events** action. Currently, when trying to delete such a

meeting through the action embedded **On entry** or **On path**, the message "Meeting does not exist" is displayed in the instance **History**.

- Fixed a bug where the **Generate/Update Word file** action incorrectly referenced the SQL query, even when the **SQL query** option was not selected in the action configuration.

- Fixed a bug that prevented the **OCR AI recognition** action from executing correctly if a form field (e.g. **Choice field**) whose values were retrieved from the **REST Web Service** data source was among the mapped fields.

- Fixed a bug where, after archiving an instance using the **Archive workflow instances** action, the instance still appeared in the **Recent activities** section of Portal. The bug was caused by incorrect queuing of operations in the archiving process.

- Improved creation of a content database and Unicode attachments from the Installer to streamline the **OCR AI recognition** action. Consequently, the recognition of logos on invoices will no longer generate errors.

- Fixed incorrect behavior of the **Invoke REST Web service** action. Previously, when this action modified values in the **Choice field**, **Choice field (picker)**, and **Autocomplete** columns, the changes were saved unvalidated in the content database. Now, these values are saved in the validated form whenever possible.

- Fixed an issue with setting values in **Choice fields** in **Dropdown** mode and **Choice trees** via the **Change value of single field action**. The action would not work if the form field was in read-only mode.
The values of these form fields will be loaded regardless of their editability, as long as the form is in edit mode.

- The **Generate/Update a Word file** action has been enhanced so that the text generated based on the form fields and rules in the template contains only characters that will not cause changes to the text layout and will display correctly in the header, footer, and main area of the document print preview.

- Fixed a bug where the HTML template displayed a value different from the one provided in the form. This issue occurred in templates generated by the **Generate an HTML printout** action in Polish and affected the summation of numerical values.

- Fixed a bug that resulted in doubling the execution of the SQL procedure in the course of the **Change value of single field** action. The implemented fix prevents queries utilizing SQL connections from sending excessive query to database.

6.6. Rules

- Improved the handling of queries in the **SQL COMMAND** rule. An error occurred when loading columns.

- Fixed a bug that prevented the creation of a universal **Form rule** in **JavaScript mode**.

- Fixed a bug where adding, removing, or cloning an **Item list** row did not refresh the configured rules for managing form field requiredness.

- Fixed a bug where a business rule defined within the **Validate form** action only operated correctly on the second attempt to transition a path.

- Fixed a bug that prevented the correct execution of the **Send custom email** action if a **Business rule** with a configured **Parameter** was used in the message body.

- Fixed the incorrect sending of parameter values used in asynchronous **Form rules** to **Business rules**. Previously, sending a date through a parameter resulted in an error when attempting to use that parameter in operations requiring a date. Additionally, fixed the conversion of data types in asynchronous form rules containing the functions **SET** and **SUBSTRING** so that the received data types can be used correctly in Business rules.

- Fixed a bug that prevented utilization of values returned by the **MIN** and **MAX** functions in comparison rules. As a result, in the case of dates, the values returned by the aforementioned functions were of string type, which prevented their comparison with the values retrieved directly from form fields. Now, the MIN and MAX functions return values of specific type.

6.7. Data sources

- Improved the warning message content that appears when loading a WSDL in the configuration of a **SOAP Web Service** data source. The warning should never be empty.

- Fixed an issue with the mechanism for changing any SQL connection to SQL ADServicePrincipal through the public API. Due to this bug, the system used incorrect credentials (**User** and **Password** instead of **Client Id** and **Client Secret**) when changing the connection.

- Fixed a bug that caused the **Report Tile** filter value to load incorrectly. The bug occurred when the tile's data source contained calculated columns with IDs that were not in sequential order (e.g. 1, 3, 4).

- Fixed a bug that occurred when attempting to save the default **Users and groups** data source. The bug appeared when a user profile with read-only privileges to the data base was used in a given environment.

- Fixed a bug that prevented connection to the Oracle database after updating to the 2024 system version. The fix involved removing the **Windows integrated authentication** checkbox from the Oracle database connection configuration window.

- Fixed a bug that prevented the creation of a data source based on a **REST Web Service** connection, where the defined authentication type was **Salesforce**.

6.8. Add-In

- Fixed a bug that caused the **Word Modern** add-in to hang. The bug occurred when the user first entered a correct ID and then an incorrect instance number. When attempting to search for an instance using the correct ID afterward, the add-in would hang.

6.9. Mobile app

- Fixed a bug that caused the configuration fields for the **Chart** view report to be displayed outside the designated user interface area.

- Fixed a bug that caused the default values of form fields configured from the start button to be cleared on a form in the mobile application. The error occurred when the workflow was started by scanning the QR code of this start button.

- A few issues with PUSH notifications were fixed in the mobile app and certain small visual problems were resolved. PUSH notifications will work correctly for long path names and will correctly redirect to instances. An overlapping input has been fixed in the PIN configuration window and the way new connections are added has been improved – the app will no longer redirect to a login window if the user is already logged in.

6.10. Service

- Improved performance of the database cleanup module for environments where full user synchronization has never been performed.

- Added "User-Agent" to the headers of queries used by the service to download currency exchange rates from NBP (National Bank of Poland). Queries without this header could result in a 403 error.

- Improved handling of the attachment indexing queue in SOLR. Items will now be removed from the queue if they are no longer available at the time of processing.

- WEBCON BPS Workflow Service operation logs will now contain information on how long the service tried to start and how long it ran until it stopped.

- Fixed a bug that caused the execution of tasks assigned to the service modules to stop. The issue was due to missing information on the activity of the service thread for the "Heartbeat" mechanism in the service log table within the database.

- Fixed a bug that occurred during the execution of a query containing the Get_WIth_Body request in the course of a cyclical action.

- The configuration of the WEBCON Workflow Service has been corrected, as a result of which errors could occur when running SDK plugins, including "Could not

load file or assembly 'System.Collections, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a' or one of its dependencies. The system cannot find the file specified."

- The checkbox **Interrupt synchronization on any Active Directory error** has been added to the configuration for synchronization with the Active Directory service. This checkbox cancels the entire synchronization if an error related to the connection or data retrieval from AD occurs in any Organizational Unit. As a result, when an error occurs and synchronization is halted, all changes made during the process are reversed, and the cache tables are restored to their state prior to the synchronization.

- Fixed an incorrect metrics configuration for the Prometheus exporter in the service. The issue stemmed from a missing dedicated Uri field, which hindered the operation of the metrics endpoint.

- Fixed a bug that caused the license service thread to stop because the service took too long to go through the path or process the attachment during SOLR indexing.
  Additionally, in the event that the duration of a path transition performed by WEBCON BPS Workflow Service exceeds the expected timeframe (for example, in the case of **Timer actions** or **Cyclical actions**), a warning log will be generated with details about the long path transition.

- Fixed a bug where the service did not activate the **OCR AI** role after service hours. In order to do this, the fix streamlines the activation of modules that register a missing connection to the service with the **License service** role after service hours.

- Reduced memory consumption of WEBCON BPS Workflow Service when synchronizing users with Active Directory.

- Improved retrieval of plain text email content based on the **%BodyContent%** variable in the **HotMailBox** configuration.

6.11. Designer Desk

- Fixed a bug where the line symbolizing a path did not align with the cursor direction while dragging. This issue occurred when the workflow scheme field had previously been moved to its outermost position.

6.12. API & SDK

- Fixed an issue in the SDK that prevented the configuration from being updated if the group contained a grid.

- Fixed the issue with updating SDK packages containing files for Portal and service environments. Now, files that do not exist in a package are correctly removed, regardless of the environment.

- An unsupported **parentID** property has been removed from the PATCH API endpoint model **/api/data/{ver}/db/{dbId}/elements/{id}**.

- Fixed a bug that occurred when changing the SQL connection type, where properties not required by the target connection type were being validated.

- Implemented a change in the API module in version 6.0 and BETA. The change involves replacing the word "application" with "applications" in the routing of the following endpoints:
  /api/data/{version}/db/{dbId}/applications/{idguid}/admin/privileges
  /api/data/{version}/db/{dbId}/applications/{idguid}/admin/privileges/add
  /api/data/{version}/db/{dbId}/applications/{idguid}/admin/privileges/remove

- Fixed an SDK library bug that occurred when using **ConfigEditableGrid** and **ConfigEditableItemList** form fields in a group if the configuration window was not displayed in WEBCON BPS Designer Studio.

- Fixed a bug that occurred when attempting to retrieve data through the OData protocol. The issue arose when the process included configured performance indicators.