WEBCON

WEBCON BPS 2023 R2

history of changes for version 2023.1.2.44

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1. Before upgrading WEBCON BPS

1.1. Important information

- If the changelog contains a section titled "Changes to existing features", please verify whether the changes will impact your implemented system in any way.
- To avoid interruptions in the system operation, make sure that WEBCON BPS licenses are up to date. To do this, verify the availability of the **WEBCON BPS Server 2023** license in the license report. This report is available from **WEBCON BPS Designer Studio** → system menu in the upper left corner → **Licenses**. Current licenses must be downloaded if necessary.
- It is not possible to update to the newest version from a version older than **2019 R1** or any system that has been installed using the **WEBCON BPS SharePoint Classic** mode.
  Please contact our support team to discuss the most optimal strategy for updating your environments to the newest version.
  Information about possible scenarios can be found on our community site https://community.webcon.com.
- Changes introduced in this version will break the compatibility of the Export-Import mechanism. Exported process packages created in versions **2023 R1** 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.

2. Information

2.1. Important information

- Fixed an issue that caused instances indexed in the **SearchIndex** database to have their dates converted to UTC - which could cause incongruencies when searching and filtering data on **Reports** that use a **SearchIndex source**.

  The error occurred from version 2022.1.4.174 to 2022.1.4.274, and in all published versions of 2023 R1.

  In order to fix existing date indexes, add **Reindex all databases** (or a specific database) to the **SOLR indexer queue**.

2.2. Portal

- Improved the efficiency of **Portal**.
  The size of CSS used on Portal has been reduced from 12 MB to 3.5 MB.
  The size of JavaScript used on Portal has reduced from 50 MB to 20 MB.
  This should improve the speed with which Portal is first loaded, especially on mobile devices.

2.3. Actions

- **On timeout** automatons can now use the following actions:
  - **Create a site**,
  - **Create a list**,
  - **Add a new list element**.

2.4. Service

- It is now possible to enter up to 200 instead of 50 characters in the **Account** (HM_ExchangeUserLogin) field used to configure connection to the Microsoft Exchange Server.

3. Changes to existing features

3.1. General

- Maintenance work has been done on the database indexes. Unused indexes have been removed and new indexes have been added to increase the performance of SQL queries in some cases. Unused IsDeleted columns have also been removed from some of the tables.

3.2. Portal

- On **Reports** that use **SearchIndex** as their source of data, the search in **Multiple lines of text** (WFD_AttLong) fields has been changed from SortAttLong to AttLong.
- In the **Substitutions** window of Portal, the name of a content database is no longer displayed next to a company's name in the **In business entity** field when there is only one content database available for that company.
- In the configuration of **Mass actions** on **Reports**, it is no longer possible to use choice fields whose value is filtered by the business entity.
  Such fields will no longer be displayed in the pop-up form of Mass actions.
  In existing Mass action configurations, a warning will be displayed when a form field containing a variable referencing a business entity is used.
- If the Business entity was not defined for a **Start** button, it can be chosen from a choice window when launching the instance.
- Changed the link separator in the report column to a semicolon with a space character (;). Previously, the separator was just a semicolon.

3.3. Form

- All data of the archived instance will be visible in the **Admin** mode, regardless of the visibility settings in the **Field matrix**. If the form is outside the archive, any defined visibility restrictions on elements (also for admin) will apply.
- Added time zone information to the **Sent** parameter in the tooltip displayed when hovering over a file in the **E-mail conversations** tab of the form.
- Rows on the **Item list** that are unavailable due to their **Acceptance** configuration will not be validated, i.e. the system will not check the requiredness conditions, RegEx, the correctness of data in choice columns, or the correctness of addresses in e-mail columns.

3.4. Designer Studio

- The checkbox **SharePoint group selection** has been removed from the advanced configuration window of the **Person or group** form field in the STANDALONE environment.
- The **Sign in as a different user** button is now hidden if only one Active Directory authentication provider is available. Previously, the button was displayed after a failed attempt to log into Designer Studio using the credentials of a user with no access rights.
- The error message that occurs when an incorrect client login is used when trying to activate a system license has been changed. In addition, the way of presenting error messages has been modified. After these modifications, errors will be shown in a pop-up window.
- In the substitution functionality, application groups with more than one database are now consolidated into one if their names are identical. However, within the application groups, applications with identical names are not merged but displayed next to each other. Additionally, a tooltip displaying the name of the database connected to a given application is now shown when hovering over its name.
- Values from outside the data source can now be added to the **Choice field** in the **Dropdown** mode and the **Choice field** column when the **Allow selecting values no longer available in the data source** checkbox has been selected.

3.5. Actions

- It is now possible in the **Add a substitution** action to define substitutions for people who do not have an active account in the system.

3.6. Rules

- Unified the handling of errors in **Form rules** in cases where they are used on form fields hidden with **Business rules** (the **Visibility** tab) or through the **Field matrix**.
  - For **GET** and **SELECT VALUES** functions, invisible fields will return "EMPTY".
  - For **HAS ANY ROWS** functions, invisible fields will return "FALSE".
  - For **ITEM LIST COUNT** functions, invisible fields will return "0".

  For each scenario mentioned above, a warning will be logged in the console, informing about the attempt to read values from a field that is not visible.

3.7. Add-In

- The subject of an **Email notification** received in Outlook Add-In when delegating a task now contains instance ID.

3.8. Mobile app

- Disabled the option to generate Designer Desk documentation from the mobile app.
- Implemented changes in viewing PDF documents within mobile application. Currently, instead of viewing a PDF file natively inside the application, such a document is downloaded and opened in a suitable PDF viewer software configured in the operating system (Android/iOS) or suggested by the system.

3.9. Service

- Changed the order of calculating OLAP statistics in the basic service role. Analytics added in version 2023 will be calculated before the KPI.
  New OLAP calculation logs will be available in the "AdminServiceLogs" table.
- Added the ability to start workflow instance from **HotMailBox** for an e-mail with a .msg attachment type. Such attachments will be converted by the system to the .eml format.

3.10. API & SDK

- Changed the model of the **Survey** form field in REST API 5.0 and beta, in order for it to look the same on the form as it does on Reports.
  The "other" property has been removed. The response is now available in a value table as a standard object with **ID** and **Name** fields. The ID of this value is always "__Other__".
- Code for path validation errors has been changed from "400" to "409".

4. Security fixes

4.1. General

- Fixed a bug where the security system, designed to protect against Cross-Site Request Forgery (CSRF) attacks, failed to start despite the correct configuration.

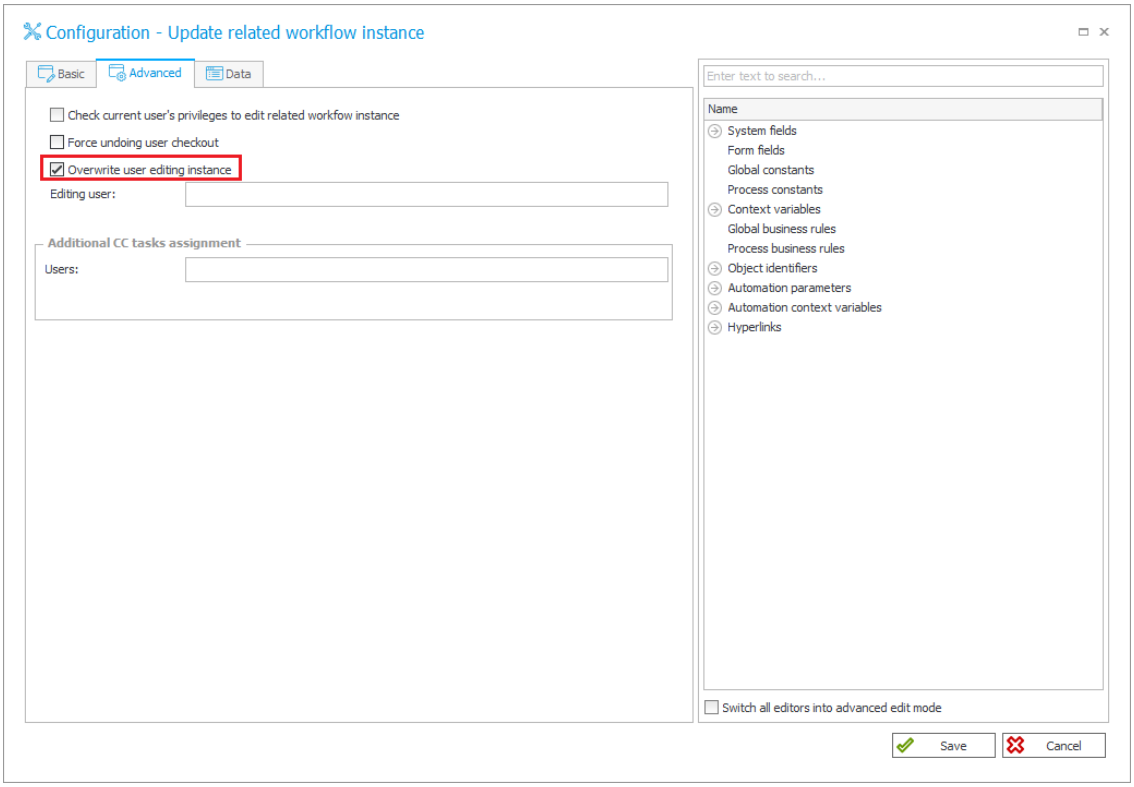
4.2. Updated components

- Updated components:
  - Aspose.BarCode,
  - Aspose.Cells,
  - Aspose.Email,
  - Aspose.PDF,
  - Aspose.Words,
  all to version 23.4.0 due to CVE-2021-24112 and CWE-94: https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMDRAWINGCOMMON-3063427.
- Updated components Swashbuckle.AspNetCore.SwaggerGen and Swashbuckle.AspNetCore.SwaggerU to version 6.5.0 due to CVE-2018-25031, CVE-2021-46708, and CWE-918: https://security.snyk.io/vuln/SNYK-DOTNET-SWASHBUCKLEASPNETCORESWAGGERUI-5426095.
- Removed unused component NuGet.CommandLine due to CVE-2023-29337 and CWE-94: https://security.snyk.io/vuln/SNYK-DOTNET-NUGETCOMMANDLINE-5709250.
- Updated component System.Security.Cryptography.Pkcs to version 6.0.3 due to CWE-400: https://security.snyk.io/vuln/SNYK-DOTNET-SYSTEMSECURITYCRYPTOGRAPHYPKCS-5708426.

5. New features

5.1. Option to force undoing user checkout in the “Update related workflow instance” action

The configuration window of the action **Update related workflow instance** (**Advanced** tab) now has a new option – **Force undoing user checkout**:



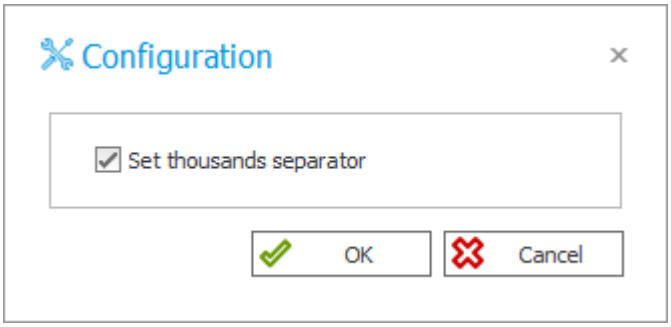
If a related workflow instance is checked out by another user and this new option is checked, the action will first force undoing the user’s checkout, so that the instance can subsequently be updated according to the configuration. When the option is unchecked, the action will not be executed due to another user editing the instance.

The information on undone checkout associated with the actions **Move workflow (SQL)** and **Update related workflow instance** will be recorded in the details displayed in the admin mode in **History**.

5.2. Numeric form fields with thousands separator

Integer number

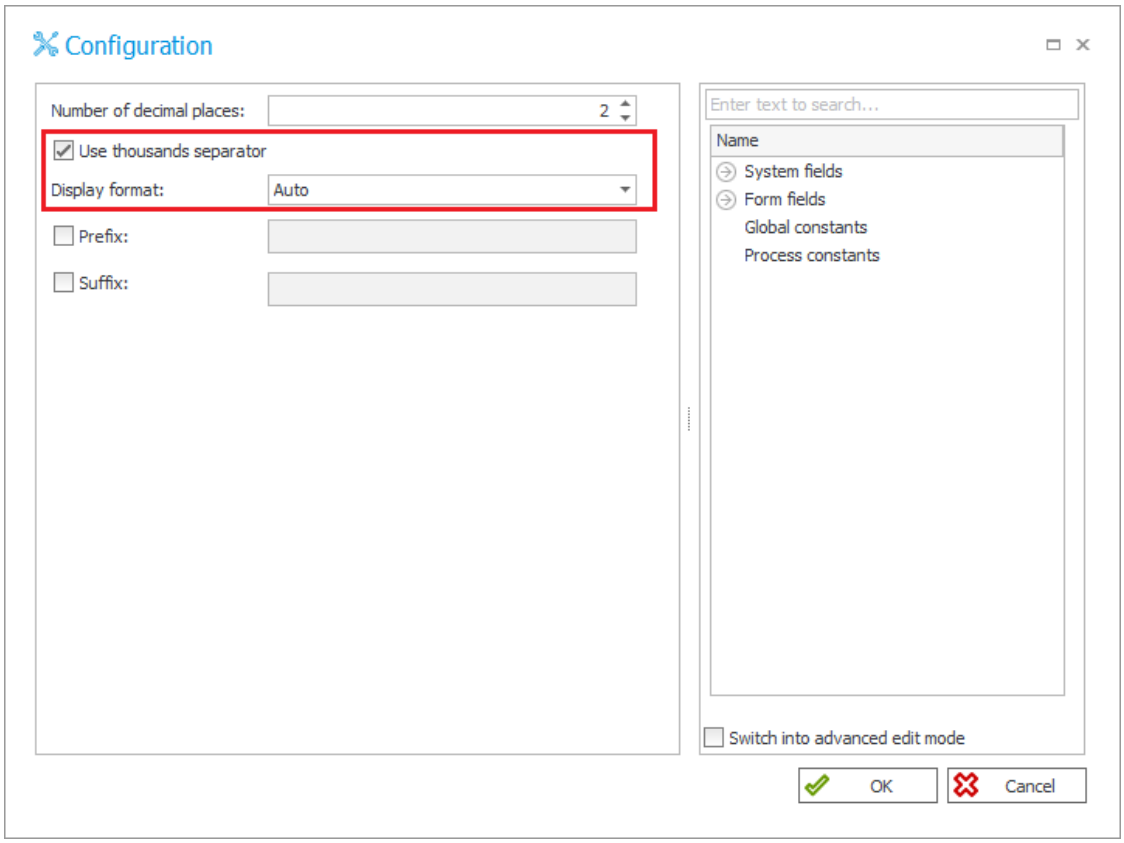
The advanced configuration of the **Integer number** form field has been introduced. When it is selected, users can decide whether the form field values will be displayed with a thousands separator. For newly created form fields, the option **Set thousands separator** is checked by default.



With the default configuration, **Integer numbers** will now be displayed with a thousands separator in **Chart** report views and in form fields that can show data from other form fields (**Data table**, **Data row**, **Chart**) and from the **BPS internal view** data source. Similar formatting of form field values will be possible for the cells of **tabular report views**, in the summary row of the **Item list**, in the **Filter** panel, on drop-down lists from which the values of a **Choice field** are selected, on task tiles, **Dashboards**, as well as in **Email notifications** and files generated via selected action.

Floating-point number

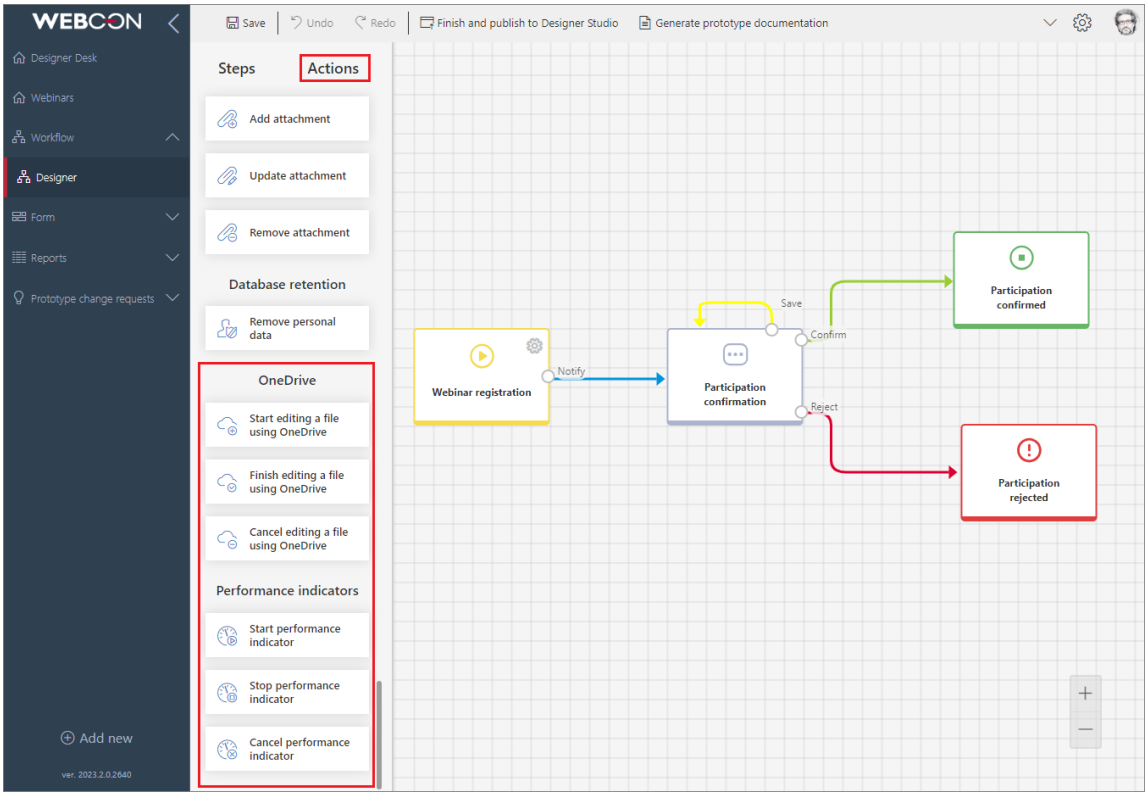
The option **Set thousands separator** is now also available in the advanced configuration of the **Floating-point number** form field, replacing the previous **Show as amount** parameter.
For the newly created form field, this option is checked, and the automatic **Display format** is selected by default.



The option to display Floating-point numbers with grouping to every third digit will now also be available in the **Filter** panel and in the list displayed when selecting the value of a **Choice field.** However, whether the thousands separator will be visible is ultimately determined by the Floating-point number configuration.

5.3. New actions in Designer Desk

Extended the list of actions available in **Workflow designer** of WEBCON BPS Designer Desk.



Users will now be able to prototype a workflow with the following actions:

Active Directory
- Manage groups
- Add user to a group
- Manage users

Digital signatures and certificates
- Sign an attachment with CoSign

Excel, Word and PDF
- Convert Word to PDF
- Generate an Excel file
- Generate a PDF file

Substitutions
- Add a substitution
- Remove a substitution

Notifications
- Send standard email

Exchange
- Exchange events

Exchange tasks
Out of office autoreply

Integration
Run an SDK action
Invoke REST Web service

Reports and printouts
Generate an HTML printout

OCR and scanning
Add a text layer

Privileges and public access
Share task
Share workflow instance
Stop sharing

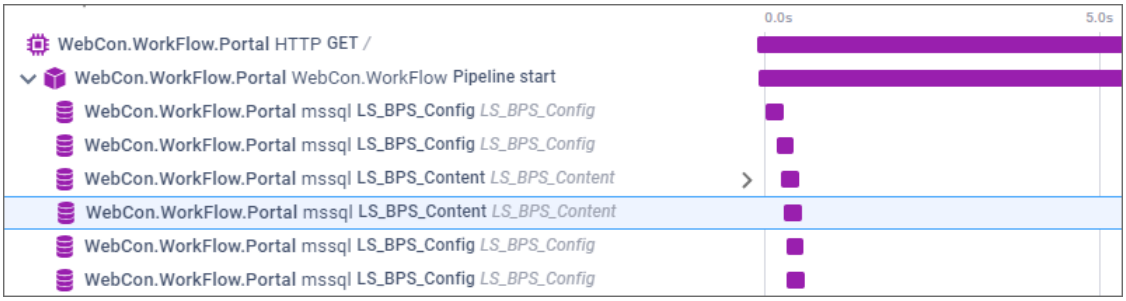
SharePoint content
Edit a list element

OneDrive
Start editing a file using OneDrive
Cancel editing a file using OneDrive
Finish editing a file using OneDrive

Performance indicators
Start performance indicator
Stop performance indicator
Cancel performance indicator

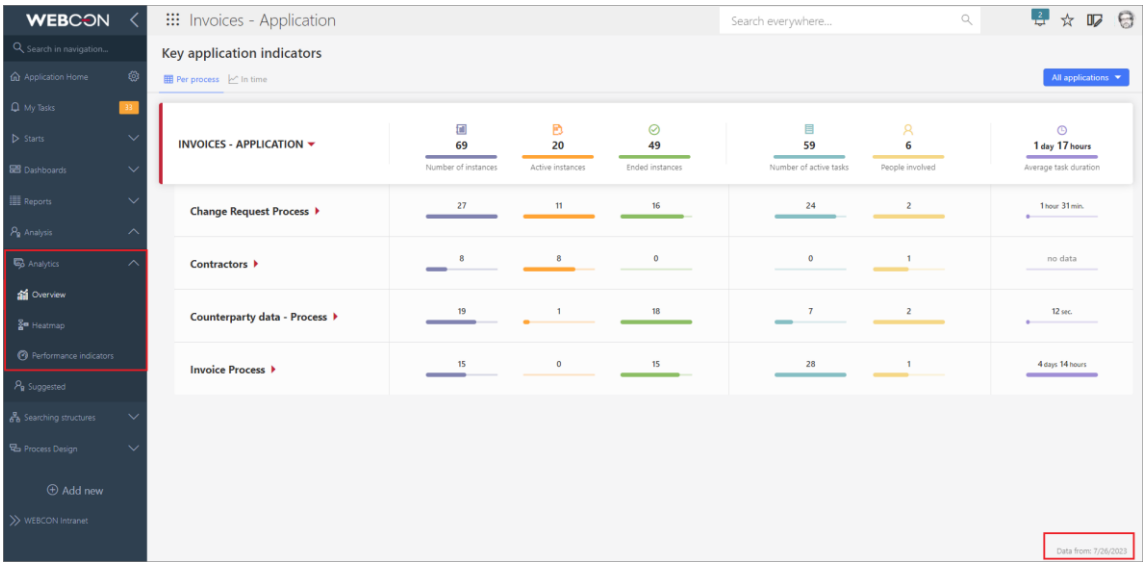
5.4. Query parameters in OpenTelemetry

Users who use the OpenTelemetry tracing module in Portal can now access information about parameters values of a query. The new functionality is available only for Portal – in Service there is only a tag containing the query text.



5.5. Date of data update in analytical indicators

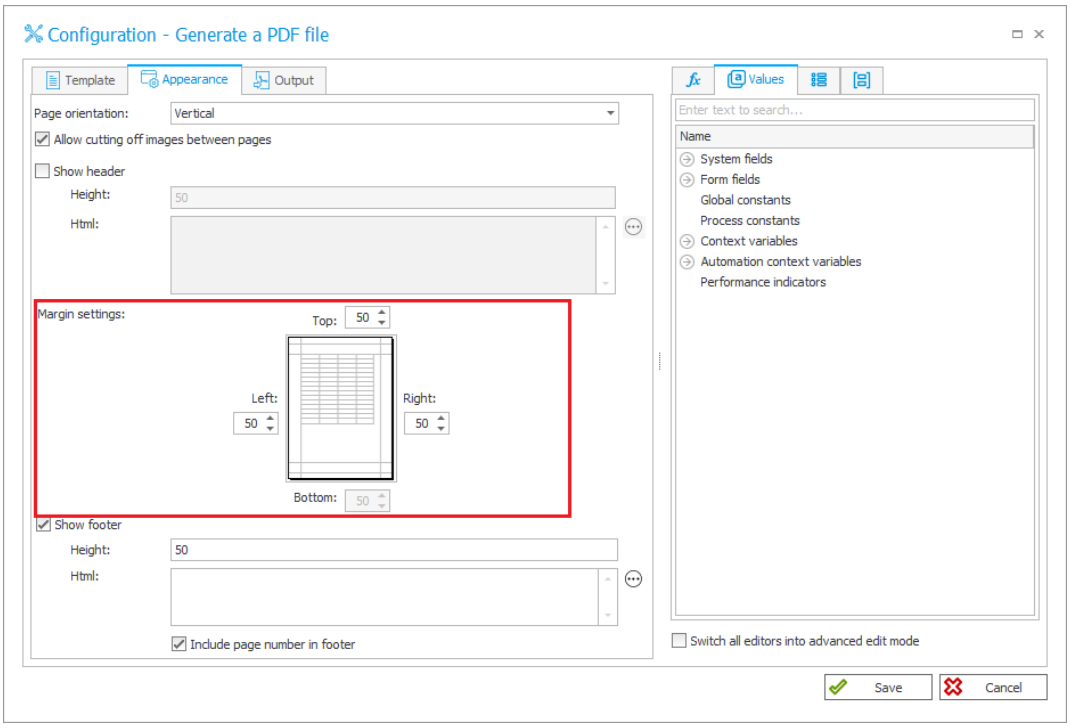
The views available under **Analytics** in Portal have been extended with the option **Date from** which allows users to check the date of the last update of analytical data.



5.6. New functionalities of selected actions from the Excel, Word and PDF group

Generate a PDF file

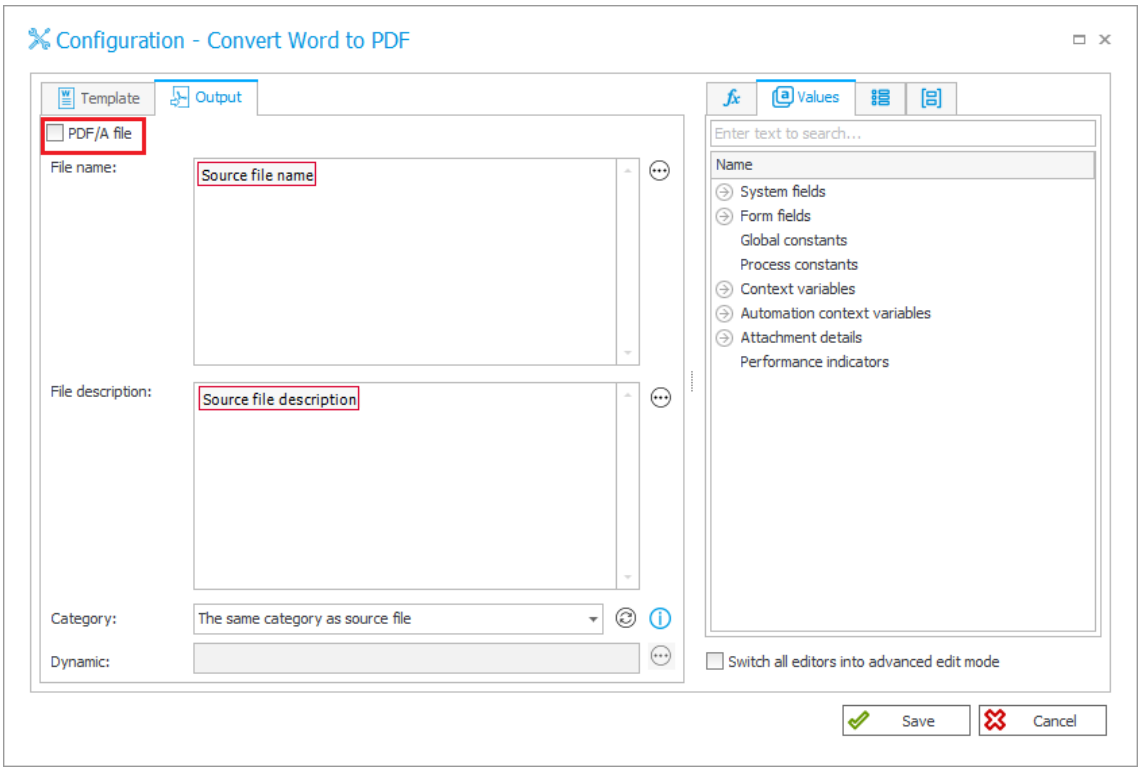
The **Appearance** tab of the action configuration window now features the **Margin settings** option which allows users to define custom margins of the generated PDF file.



Additionally, users configuring the action can decide whether the document will be generated in a special PDF/A format. This is ensured by the new **PDF/A file** checkbox available in the **Output** tab.
This format allows the digital content of a file to be graphically represented in the same way, regardless of the operating system and software used. It is also intended for long-term storage of documents for archival purposes.

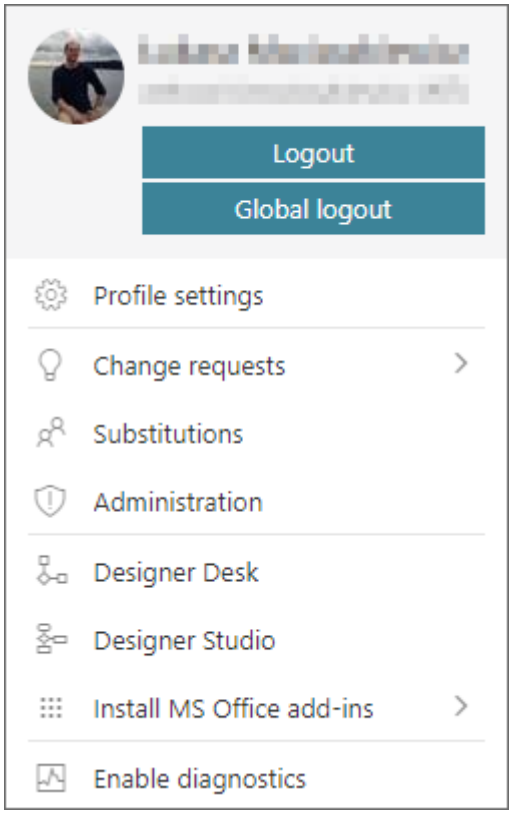
Convert Word to PDF

The same checkbox has been added in the **Output** tab of the **Convert Word to PDF** action window. When this option is selected, the files created as a result of the conversion will be saved in **PDF/A** format.



5.7. Global logout

Added new functionality that facilitates the termination of all current user sessions through a new button called **Global logout**. Upon clicking the button, the system logs the user out of all environments or platforms that utilize cookies-based authorization, including Internet browsers, mobile browsers, the WEBCON BPS Teams add-in, and the WEBCON BPS add-ins for MS Outlook. This button is accessible in Portal within the user menu, located below the current **Logout** button. The introduction of this new functionality aims to enhance security and prevent unauthorized access.



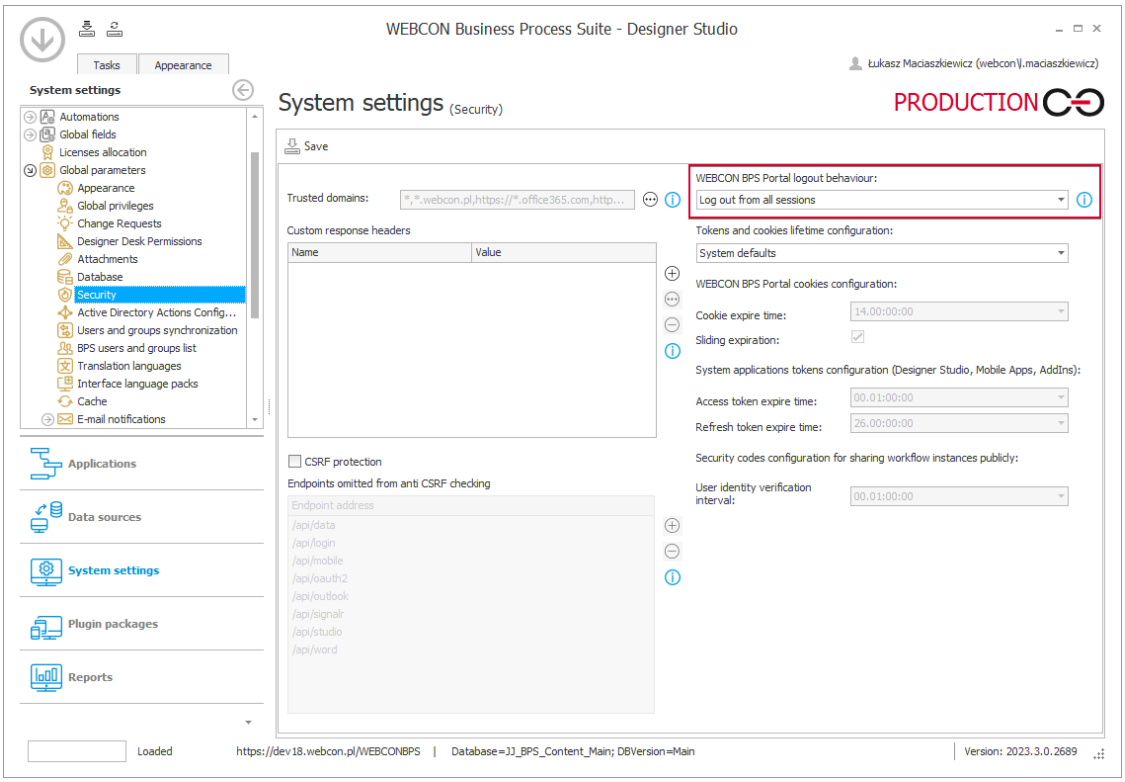
Configuration in Designer Studio

Introduced a new field, **WEBCON BPS Portal logout behavior** (located in **System Settings** → **Security** → WEBCON BPS Portal logout behavior), which allows users to configure the new functionality. Through a drop-down list, users can select one of the three available options:

- **Log out from a single session (default)** – the user menu in Portal includes the Logout button for logging out of a single user session;
- **Log out from all sessions** – apart from the aforementioned Logout button, the user menu provides the **Global logout** button that enables logging out of all user sessions on all devices;

Force logging out from all sessions – only the Global logout button is available.

After entering a new configuration, it is necessary to restart Portal.

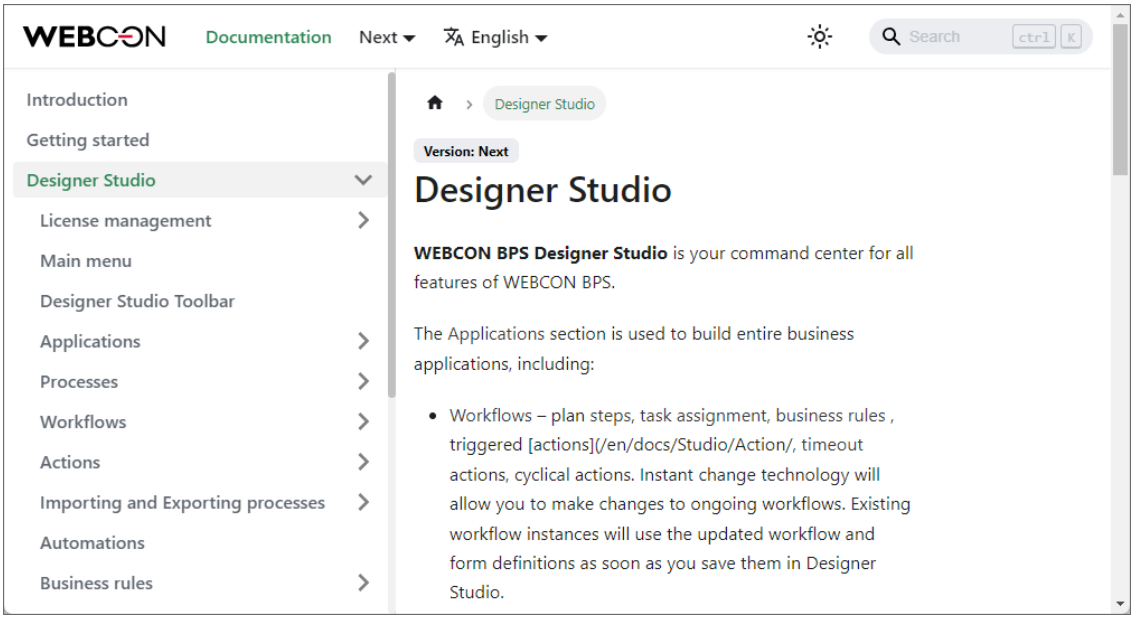


New OpenTelemetry metrics

Accompanying the new functionality that facilitates logging out of all sessions, a new OpenTelemetry metric has been introduced. This metric is accessible through the **webcon-workflow-portal-ticket-store-cache** module allowing the display of user authorization identifiers currently stored in the cache memory.

5.8. New documentation in Designer Studio

A new, updated version of the Designer Studio documentation is made available. The documentation can now be accessed online in a web browser window by clicking the F1 key in Designer Studio. Users can continue to open documentation locally by setting the **UsePublicDocumentation** parameter to the value of "0" (the default value is "1") in the configuration database (configuration database name → the **GlobalParameters** table → the UsePublicDocumentation parameter). The content of the documentation has been updated and reformatted).

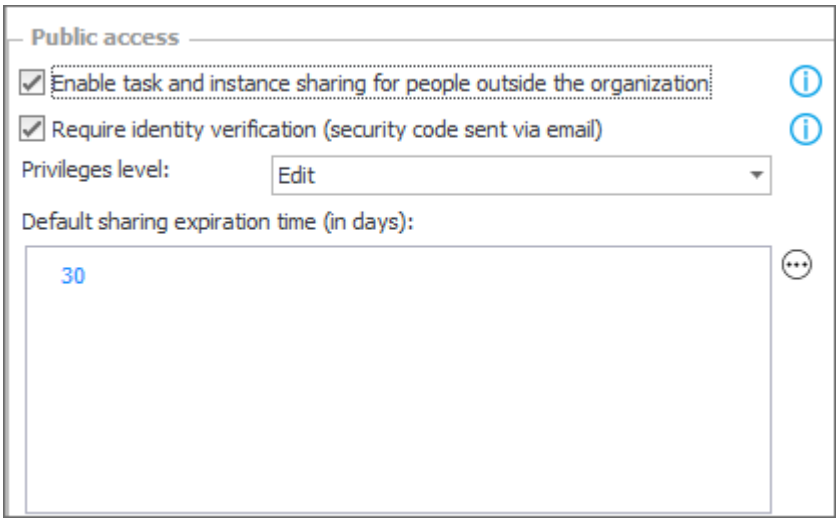


5.9. Security code for public links

Introduced securing public links with single-use security codes sent to the link recipient's e-mail address. After opening a secured link to a shared instance, the user is required to confirm their identity by entering the aforementioned code in the field specified in the window. The code prevents unauthorized access to the shared instance by individuals who accidentally received the link to an instance or a task.

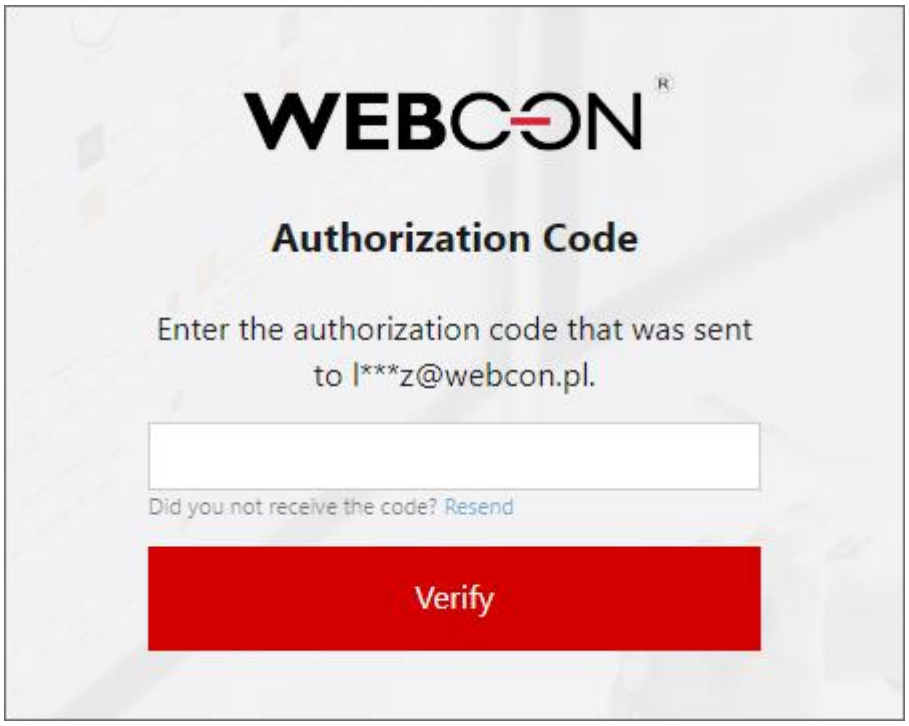
Enabling the functionality in Designer Studio

The **Public access** section of the **Settings** tab (process configuration window) contains now a new checkbox **Require identity verification (security code sent via email)**. Selecting the checkbox results in enabling the mechanism responsible for verifying identity of a recipient of a shared instance link.



Authorization mechanism operation

Once a secured link is opened, the system redirects the user to the Portal's website and displays information about obligatory confirmation of identity by means of a single-use authorization code. The code is generated after hitting the **Send an authorization code** button and sent to the link recipient's e-mail address. (The e-mail messages are sent in the language in which the window for entering authorization code in Portal was displayed.) A separate 6-digit code is generated for each shared instance and it remains valid for 5 minutes.



The limit of failed attempts

Introduced a limit for a number of unsuccessful attempts to enter an authorization code. After 20 failed attempts, the public link becomes inactive and the system displays information about its expiration. An administrator or the link creator can reactivate the link, which involves generation of a new authorization code. After entering the code and confirming the identity, the link is reactivated.

Identity verification interval

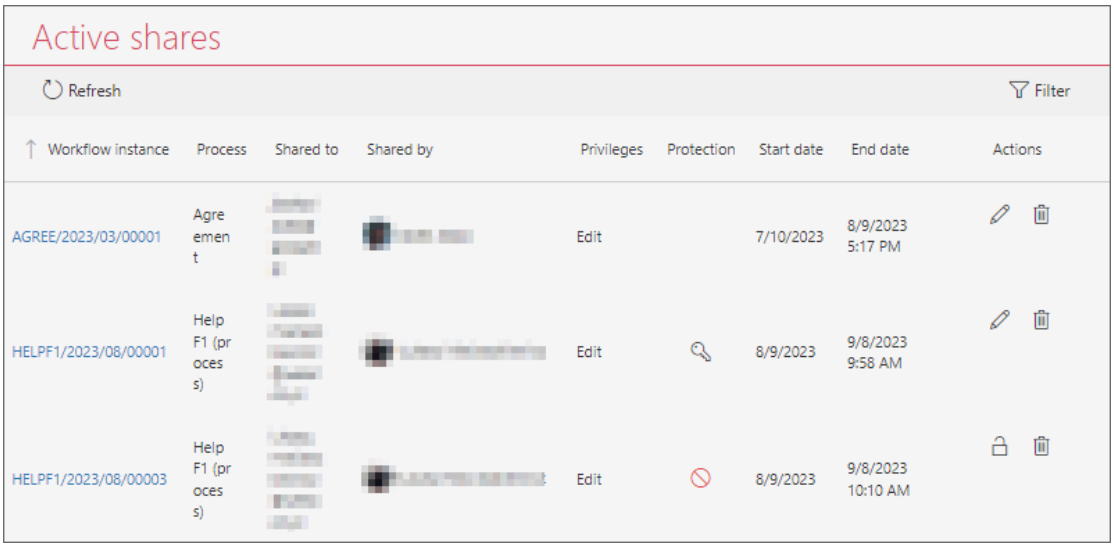
Added the section **Security codes configuration for sharing workflow instances publicly** (**System settings** → **Global parameters** → **Security**) which includes the **User identity verification interval** option. The option enables users to define the time after which the system requires again entering a newly generated authorization code. By default, this time is one hour.

Parallel operation

A user can work simultaneously in several Internet browsers by entering separate authorization codes. They can work independently in browsers for an hour since entering the code.

New column in the active shares list

The list available in the **Active shares** node in the **Admin panel** has been expanded to include a new column **Protection** which shows the type of share. For shares that require authorization code, a key symbol is displayed. When the access is blocked, the key icon is replaced with a general prohibition symbol icon.

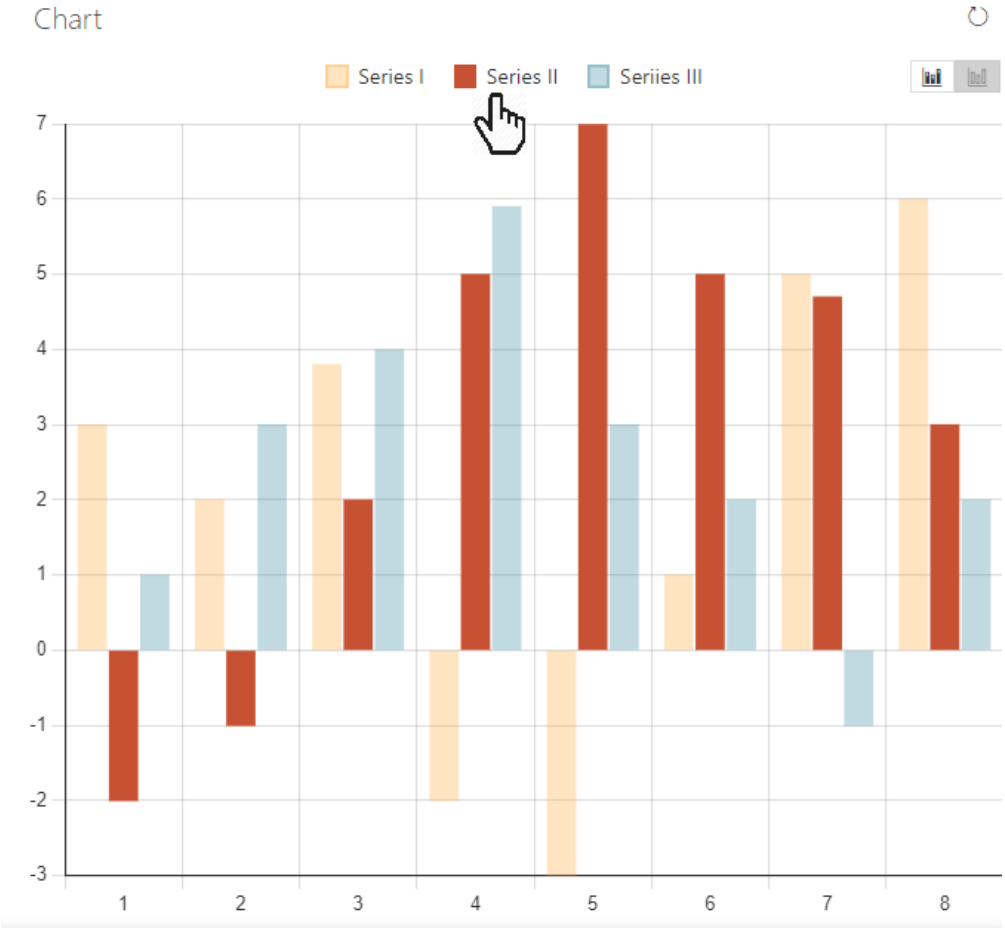


5.10. General

- Added the option to perform a "healthcheck" for the SQL Server connection by including a "/health" suffix in the URL. The connection to the **Configuration database** will be checked.

5.11. Portal

- Introduced mechanisms to filter out from analytical reports (**Key application indicators**, **Heatmap**) data saved in the database due to configuration changes.
- Hovering the mouse cursor over a data series on a **Chart** type form field or a view of the **Report** will cause all other data series to become translucent.

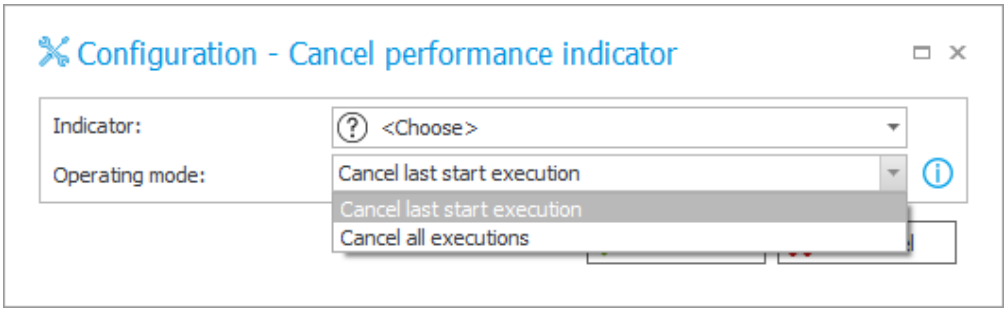


5.12. Designer Studio

- When opening the **Objects** tab in the editor (e.g. for Rules), the current Application/Process node (in the context of which the editor was opened) will be expanded by default.

5.13. Actions

- Added the **Cancel performance indicator** action. It is used to cancel calculating **Performance indicators**.



Canceling can happen in two ways:

- **Cancel last start execution** – restores the indicator to the value it had when it was last stopped. If the indicator has only been stopped once, the action deletes all data related to the calculation of the performance indicator. Multiple activations of this action will not undo earlier calculations;
- **Cancel all executions** – deletes all performance indicator data as if the indicator had never been started.

5.14. Rules

- Added a new **SET FORM TITLE Form rule**. It is used to replace the text of the instance number at the top of the form, as well as the title of tabs/windows of the browser.
- Added the ability to retrieve the value of the **Local attachments** column by means of **Form rules**. Such values are now returned in the format "AttachmentID#Name".

5.15. Service

- In the configuration of **HotMailBoxes**, in the **Additional attachments** section, it is now possible to match attachments using MS-DOS search.
  This searching mode has also been added to the configuration of **HotFolders**.
  ? replaces any single character
  * replaces any string of characters
  | works as "or", matching the expression before or after the character, e.g. *.pdf | *.docx.

- Delivered full OCR.space functionality in the WEBCONAPPS service. For this purpose, the configuration of the text layer actions in Designer Studio was adapted to the OCR.space engine by enhancing the algorithm that calculates the dimensions of text blocks and the padding mechanism. Additionally, the mechanism recognizing the block coordinates for joining words after the ":" and "=" characters has been streamlined. Also, each processed document is now scaled separately.

5.16. Designer Desk

- It is now possible to define an email address to which responses obtained through the commands available in the **MailApproval** functionality can be delivered. The target address is specified in the **Inbox parameters** section of the MailApproval configuration window, under the **Account** field for the **Exchange Online - Microsoft Graph** server type. The address configured there is used for emails sent by the Service (exclusively through the MailApproval engine), as well as for standard system notifications, task notifications, and instance notifications delivered by the **Share task** and **Share workflow instance** actions. Additionally, for emails sent through the SMTP protocol, the email address at which the MailApproval message is served is retrieved, provided the MailApproval functionality has been properly configured.
  This modification does not apply to the **Send a custom email** action for which the inbox is configured in the action's configuration field.

5.17. API & SDK

- The public API has been expanded to handle and download change requests and comments. For this purpose, two additional endpoints have been created: one returning lists containing general information, and the other one providing details regarding individual change requests. Users who query the API receive only the change requests to which they are authorized.

- Added two new methods in the SDK: **TryGetDocumentByIdAsync** and **TryGetDocumentByInstanceNumberAsync**.
  Both methods contain parameters "isExists" (with "TRUE"/"FALSE" values) and "documentData", an "ExistingDocumentData" class object.

6. Bug fixes

6.1. General

- Fixed a bug that caused too long instances removal from the Solr database. Currently, choosing the **Remove from content database** archiving level results in updating an instance to an empty one and its actual removal after the removal of unused indexes.
- Fixed a bug where error notifications sent by the **MailApproval** functionality were delivered in a language other than the configured one.
- Fixed a bug occurring in the **Search Server address** step of the installer due to which a prefix was not added to a database if the **Independent Solr cluster** option had been selected.
- Added **Attachment migration tool** to the **Migration Tools** directory of the installer which enables downloading attachments created in version 8.1 or earlier, which do not have the file length information saved in the database.
- Fixed a Solr migration script bug that occurred when updating the 2022 version to the 2023 version.
- Improved the version update logs added to the folder with the installer. The log.txt file will now include information regarding each step of adding change request templates/collections.
- Resolved the issue of the AutomationSessionExecutions table growing more than expected.
  Introduced a series of improvements which aim to limit the size of this table, e.g.:
  - deleting/archiving elements will remove all connected records in AutomationSessionExecutions,
  - reduced the number of data stored in JSON by over half,
  - replaced two indexes in AutomationSessionExecutions with one.
- Fixed an issue that would prevent version 2021 R5 from being updated to version 2022 R4 and newer. This issue was caused by SDK actions configured to be triggered cyclically in a transaction.

6.2. Portal

- Fixed an issue in the URL filter on **Reports**. The URL filter will now search for exact matches, instead of values starting with the provided phrase.

- When configuring a standard filter on **Reports** from the Designer Studio level, it is now possible to leave the value field empty. The message stating that the value field is mandatory has been removed.
- Fixed a bug that caused a green confirmation window not to be displayed despite a successful path transition when a workflow instance was opened from **My tasks**.
- Fixed a bug where the preview of a workflow instance was displayed in the context of the process's parent application instead of the application from which it was actually opened.
- Fixed missing translations in the **Recent activities** section.
- Improved display of **Data row** and **Data table** form field values in MS Word template generated from Portal.
- Fixed discrepancies in the **Search everywhere** function on **Reports** using SearchIndex as their source of data.
- The **Analytics** node will be visible for applications made exclusively from related processes.
- Fixed the scaling of the scroll bar in the **Choose application** search box.
- Fixed an issue with searching dates on **Reports** using **Searchindex** as their source.
- Enhanced appearance of version column in instance history.
- Fixed a **Business rule** and **Form rule** logging error that produced the error message "Cannot read properties of undefined (reading 'error')" when changing the context of a form, i.e. when switching between its instances.
- Fixed item displaying in the **Recent activities** section of application when applying the **All** filter.
- Fixed a bug that prevented changes to the **Assignment filter** in the configuration of the report **Source** when switching between different report **Views**.
- Fixed an issue with missing **Item list** data on **Reports** containing archived instances.
- Fixed the scaling of headers on Gantt charts.
- The expansion arrow on the timeline in the instance history has been moved to the right side to improve readability.
- Date sorting in the SQL report grouping window has been fixed.

- Fixed a bug preventing the correct display of step icons in reports.
- Fixed a bug due to which not all suggested values were translated in accordance with the user language in the hint window displayed after clicking on the search bar in WEBCON BPS Portal.
- Fixed a bug that allowed an unauthorized user to start a workflow instance from the application.
- Added support for an error that occurred when expanding the subordinates filter on the **Vacation Schedule** report when the leave type was not previously set. If an error occurs, an appropriate warning message will be displayed.
- Fixed an issue with the name of the authentication provider not being displayed correctly in the user profile.
- Improved the clarity of applying filters on **Reports**. After applying the filter and reopening the filter menu, active filters should always be pinned at the top of the list.
- If a start button does not have a defined **Business entity**, the user will be able to choose from entities available to them in a choice window (the same is true for **Processes** and **Form types**).
- Fixed a bug where the report status did not match the filtering settings, i.e. after displaying a workflow instance and going back to the report, the filtering was different than set.
- Fixed an issue with saving on the **Dashboard** that was caused by a redundant confirmation window asking to save changes.
- Fixed a bug where actions triggered **On timeout** were counted as **Step entries** in the **Heatmap** report.
- Fixed a bug due to which a value entered in the search box had been erased after refreshing the page and required clicking within the Portal's window to appear. Currently, such a value appears immediately after refreshing the page. Additionally, the entered value no longer blinks after its modification and clicking within the Portal's window.
- Fixed incorrect comparison of user logins in the **Absence process** when using a custom company structure. As a result, the **Vacation schedule** did not display the current vacation data correctly.
- Fixed a bug related to the missing values of the **abId** and **appId** parameters in diagnostic session recordings.

- Fixed an SQL query error in the **Add a substitution** action generated from the configured **Absence process**.
- Fixed a bug that prevented the display of step name translations on reports after changing the Portal language to English.
- Added the ability to search for **Suggestions** in the list after confirming the entered value with the Enter key.
- Fixed an issue with displaying workflow instances, reports, forms in relation to a group of languages (such as Swedish, Finnish, Croatian, Norwegian, Lithuanian) for which the default negative sign was minus (U+2212) and not the standard hyphen-minus (U+002D).
- Fixed an issue that could arise when trying to edit a file directly from the form. This resulted in displaying the message "No application to edit this file is installed on the device" even though the related application was installed. The bug was corrected by increasing the waiting time for the associated application to start.
- Fixed an issue with values in **Choice field** and **Choice tree** form fields not appearing in the **Mass actions** window on **Reports**.
- Fixed a bug that prevented the correct display of reports when using the **Substitutes** functionality in the **Acting on behalf of** mode.
  In addition, when selecting the replaced person subordinate view and switching to **Direct subordinate's view**, the data of the respective subordinate are now correctly displayed.

6.3. Form

- Fixed the **Target field** mechanism in **Choice fields** for setting the values in **Item lists** that have grouping enabled. When a column value had been set that altered the order of rows, further values would not have been set correctly.
- Fixed a bug that caused changing capital letters into underscores when editing an attachment.
- Fixed a bug due to which a rule executed for the second and consecutive time on value change in the **Date and time** form field did not modify the field's value.
- Fixed an issue where translations were not displayed correctly for values in a **Choice field** in dropdown mode.
- Fixed an issue where the **HAS ANY ROWS** rule looped when used in the **Item List** column default value rule. An error caused the Portal process to stop.

- Fixed a bug that caused the removal of values from dependent fields of an **Item list** when moving along a path. Currently, the values of dependent fields are not set if the value of the source field has not changed.
- Fixed an issue with the **Target field** mechanism when affecting the values of an **Item list**. The issue occurred when grouping was set up on the **Item list**, and changing a value changed the order of rows.
- Fixed **Form rule** execution error that occurred when performing operations on the rows of the **Item list** (e.g. **FOR EACH ROW**) inside the on-page loading rule with configured initialization.
- Fixed a bug in importing values with ≥10 decimal places from an MS Excel file into the **Item list**.
- Fixed an issue with displaying multilingual values in the columns of an **Item list**.
- Fixed a bug that caused a blank value to be duplicated in an **Item list** column of the **Choice field** type when a filtering rule was configured for another column of that list.
- Fixed an issue with importing >1000 rows to an **Item list** from an Excel file. Rows will be loaded starting from the row specified in the configuration (not the first one). A notification will be displayed if not all rows in the file can be imported.
- When accepting a delegated task, the substitute will now see also the line of the delegate in the **Item list**.
- Fixed the issue with incorrect tooltip display for a value field in a report column filter. After the modification, the tooltips now include a link to the corresponding instance and are no longer displayed for the **Empty** and **Not empty** items.
- Fixed an issue where the Active Directory login window appeared when the instance was shared publicly via a link.
- Fixed an issue with the **Multiple lines of text** field that occurred when the instance was shared using a link.
- Fixed an issue that caused the diagnostics to display incorrect times of when form fields were set using the **Target field** feature.
- Fixed a bug that prevented a superior from creating a substitution for a person who is their subordinate in the second and subsequent lines in the organizational hierarchy.

- Fixed a bug where translations of a **Series** were not included in the configuration of the **Chart** form field, preventing its data from being displayed on the form.
- Fixed a bug that occurred after changing the type of a **Global field** to a different one when the inheritance of the field configuration had been broken.
- Fixed a bug due to which a value filter in the **SearchIndex** report column was case-sensitive. Currently – in contrast to the **Contains** mode – the **Starts** filter mode is case-insensitive.
- Fixed a bug that occurred when a user holding no administrator privileges attempted to load registered instances in workflows where associations with form types had been deleted.
- Fixed an issue that caused the attachment preview window not to close correctly.
- Improved login with an ADD account when editing documents via WebDAV protocol.
- Fixed a bug that occurred when exporting a **Data table** to MS Excel and the form had been opened outside the application (e.g., from **My tasks** or as a **Preview**), resulting in incorrect loading of data in the form.
- Fixed a bug where the MS Excel export button was not visible for the **Data table** if it had been configured in a group of form fields in a horizontal layout.
- Corrected the error message that appears when a user whose display name is not saved in the system attempts to reopen a form in **Edit mode**.
- Fixed an aggregation bug inside the **Report Tile** embedded in a **Dashboard** column. The problem resulted from the failure to update the column containing the Report Tile.
- Fixed a bug that occurred when trying to click again on the link to follow a path, received in an **E-mail notification**. After the change, the system will first validate whether the path under the link is still available.
- Fixed a bug in the **Choose application** field in Portal where scrolling items in the **Most used** tab caused scrolling items in the **All** tab and vice versa.
- Fixed incorrect scrolling of the scroll bar after collapsing the instance history table in the Firefox browser.

- Added the ability to search for the values of **Choice field (Popup search window)** configured on the **BPS internal view** data source by translations of step, process, workflow, and form type names.
- If going through a path with form validation enabled fails, the error message displayed will no longer list errors detected during validation that are visible on the form.

6.4. Designer Studio

- Improved task assignment when going to the same step indirectly through a **Workflow control step**.
- Fixed an issue that occurred when choosing a **Global form field** for **Dynamic** task assignment in **Task creation**.
- Fixed a bug where the **Column** field in the task assignment configuration on the path would not have been grayed out if a selection attribute had been selected in the previous step configuration in the **Attribute** field.
- Fixed a bug that occurred when attempting to switch the order of form fields in a process published from Designer Desk.
- Fixed an issue with synchronizing superiors – managers of users should now be synchronized correctly from both the AD and AAD.
- Fixed an issue causing mass notifications to be sent on non-working days regardless of configuration.
- Fixed mechanism responsible for resetting the counter of incorrect executions after activating the disabled cycle of cyclical actions in WEBCON BPS Studio.
- Removed context constants from the editor for public links.
- Added validation of header values entered into the **CustomResponseHeaders** configuration database.
- In the **Reports** section, removed the **Document entry point activity** node.
- Fixed a bug due to which the **NOW** and **TODAY** functions did not work when the advanced coloring mode had been configured for a report.
- Incorrect characters in names and descriptions of form fields will be replaced with empty strings.
- In the **Reports** section, removed unused **Statistics** in the **Profiling** node.

- Fixed a bug that occurred when substituting values provided by a variable in the JsonGrid control while invoking the **Rest Web Service** data source.
- Introduced additional validation of the package created during application export – if the attempt to generate it fails, the export will be aborted.
- Fixed a bug due to which the system did not retrieve last value from the **Multiple lines of text** form field in **Append mode**.
- Fixed a bug in which the system did not block access to the process instances in Portal after disabling the **Allow to work on behalf of another user** option in Designer Studio for the process in question.
- Fixed a bug that occurred when exporting an OCR project with a very large number of fields and dedicated networks.
- Fixed a bug that caused previously selected buttons **Creating new projects** and **Publishing to Studio** to become unchecked after allocating a **Designer Desk Access** license to a user.
- Fixed a bug that prevented proper display of parameters (hyperlink generation) when email template contained a reference to a **Data table**.
- Fixed a bug that prevented deletion of an element (e.g., business entity, form field) even though the element was not used anywhere in the system.
- Fixed a bug where translations of cloned report view values were not saved.
- The **Export/Import** mechanism now has additional tooltips which allow error details to be downloaded.
- Fixed an error stating that the elements of a report **View** used on the **Dashboard** were not translated when the View had already been deleted. The error message appeared when trying to export a related application.
- Fixed a bug that prevented the configuration of **HotFolders** and **HotMailBoxes**.
- Fixed a bug that occurred when transferring a process between applications – the **Usages** report displayed elements that did not actually block the process from transfer. After the change, the report will not contain redundant elements.
- Fixed an issue with the scaling of the step edit window. Changing the height of the window will no longer hide options.

- Fixed an issue that prevented replacing a tag in the configuration of the **Hyperlinks Start Element** function after importing an application.

6.5. Actions

- Fixed a bug that prevented the correct setting of dependent column values of **Item list** when executing the action **Read data from an Excel file**. Field values will now be set according to the action configuration.
  The exceptions are the values in the "id#name" format that will be treated as if they had already been validated on the form and the corresponding dependent fields set.
- Fixed a bug where the **Move workflow (SQL)** action would have moved a workflow instance even though it had been in a different step than the one bound to the path specified in the action configuration. After the change, the system will first check whether the path is bound to the step in which the moved workflow instance is currently located.
- Corrected error messages displayed when the action **Teach OCR AI** fails.
- Fixed a bug in the execution of the action **Change value of single field** – the action was changing the value of the **Multiple lines of text** form field with **Append mode** enabled to NULL (and saving it in the database) instead of the configured EMPTY value.
- Fixed a bug that made it impossible to go to the configuration window of the **Change value of single field** action when the action had been added in automation with a local variable.
- Fixed a bug in the **Change value of a single field** action. Choice fields set using this action will correctly update related fields set in their configuration. The bug occurred when the choice field had been set using a value in the BPS format (ID#Name).
- The **Change value of a single field** action that affects a **Multiple lines of text** field will now show the **Current user** variable in the **Comment author** parameter. This does not change how the action works.
- Fixed an issue in the **Change value of single field** action that prevented it from changing the values of **E-mail** and **Image** type form fields.
- Fixed the "SqlException: Snapshot isolation transaction failed..." exception that sometimes occurred when triggering cyclical actions.
- Fixed an issue in the **Generate an RS report** action that prevented it from working with https.

- Fixed an issue that occurred when executing the **Send a custom e-mail** action, and when previewing the e-mail message in its configuration. This bug was caused by the incomplete configuration of a **Tab panel**.
- The **For Each** operator using the **Any collection** setting will execute 0 iterations if the rule defined inside it returns an empty string.
- Fixed an issue in the **For each** operator using **Item lists**. The values of an Item list will now be updated in the database once the loop is completed.
- Fixed issues and improved handling of barcode printouts realized via SignalR which is used to connect cloud installations with local printers.
- Fixed an issue that caused the configuration of the **Move workflow (SQL)** action to be imported incorrectly.
- Actions with postponed executions will now be displayed in the instance history, in the spot where they were queued.
- Fixed the bug in the **Invoke REST Web service** action that occurred when sending a request with a **JSON** body type.
- Fixed an issue that caused e-mail recipients to be duplicated.

6.6. Rules

- Fixed a bug of asynchronous process **Form rules** where the result of such a rule embedded in another operation was incorrectly handled.
- Fixed a bug where process ID was incorrectly loaded to a **Business rule** when copying global form field to a process form field.
- Fixed how the **Empty** function works in process business rules. If a rule had been configured to return a specific data type, the lowest possible value would have been set instead of the "empty" value (0 for decimal, 0001-01-01 for date). It will now be possible to set an "empty" value and thus "clear" fields using such rules.
- Fixed a bug where the **TEXT TO DECIMAL** function used in the **Form rule** returned an error when no value was entered in the associated **Choice field**.
- Fixed an issue that caused information about changes not to be displayed when using **Rules** on the compact form.
- Fixed an issue that occurred when using **SELECT VALUES** and **GET ROW** functions on an **Item list** that contained no valid columns.

6.7. Data sources

- Information on the **REST connection** authentication types has been included in the content-sensitive help.
- Fixed a bug that caused multiplication of the request value on the Swagger endpoint list after invoking the **Rest Web Service** data source.
- Fixed an issue with testing data sources containing **Business rules**.
- Fixed a bug that prevented the import of items from MS Excel – the program incorrectly recognized the type of the entire **Data source** column based on its first row.
- Fixed an issue with filtering data sources by a date column.
- Fixed a bug that occurred when searching for phrases containing square brackets "[ ]" among the values of a **Choice field** (**Autocomplete**) configured based on a **REST Web Service** data source.
- Improved data retrieval for the **Choice field** (**Dropdown**) when using primary/secondary data sources.

6.8. Add-In

- Improved the format of dates displayed in processes started via Outlook Add-In.
- Added the ability to edit the font in the cells of a table created from an **Item list** or **Data row** before generating an MS Word file based on a template.
- Limited unnecessary warnings from the Word and Outlook plugins.
- Fixed an issue with missing prefixes/suffixes in the summary row of an **Item list** in generated Word files.

6.9. Mobile app

- On **Reports** displayed on mobile devices, the icon for the options menu was changed in order to differentiate it from the views menu.

6.10. Service

- Corrected the error message displayed when the action **Add a text layer** fails due to an attempt to process password-protected documents, and the action is configured to skip PDF files with a text layer or signature.

- Fixed a bug where some antivirus tools classified WEBCON BPS Workflow Service as malware.
- Fixed an issue with logging that occurred when a BPS user's name contained non-standard ASCII characters.
- Fixed a bug that caused the system to send duplicate email notifications. Improved logging for the email sending queue.
- Fixed a bug related to barcode settings in **HotFolders**. The "+" button and drop-down list will be grayed out if all available code types are added from the list. The "-" button will not be available if no code is selected from the list. In addition, added a correct icon for the "Stop" button in the **OCR Framework configuration verification** window.
- Fixed an incremental synchronization error when adding a new user whose AD group (or any parent group thereof) was defined as belonging to a BPS group.
- Fixed the logging of the **HotMailBox** module in the Service by enhancing the handling of errors related to retrieving attachments to e-mails sent from the HotMailBox module.
- Fixed a bug related to the license service connection by streamlining the handling of the failover mechanism in the Service.
- Fixed an issue related to the incorrect loading of additional attachments in **HotMailBoxes** and **HotFolders**. Unified and improved the method for filtering and matching additional attachments (see New features section).
- Fixed an issue that prevented sending emails with attachments whose names included Polish diacritic marks through the SMTP protocol.

6.11. Designer Desk

- Added a safeguard against publishing a project that has been modified in another browser window.

6.12. API & SDK

- Fixed an issue with custom controls for **Integer** type form fields.
- Custom form fields will correctly add CSS files containing styles and load images from assets.